SELF STUDY REPORT

Profile of the University
&
Criteria Wise-Inputs

Part -I

JULY 2015

Submitted to NAAC

for

Accreditation (Cycle – 3)

PUNJABI UNIVERSITY PATIALA

DR. JASPAL SINGH
Vice Chancellor
**PUNJABI UNIVERSITY,
PATIALA**

ਡਾ. ਜਸਪਾਲ ਸਿੰਘ
ਵਾਈਸ ਚਾਂਸਲਰ
ਪੰਜਾਬੀ ਯੂਨੀਵਰਸਿਟੀ,
ਪਟਿਆਲਾ

Declaration by the Head of the Institution

I certify that the data included in this Self-Study Report (SSR) are true to the best of my knowledge.

This SSR is prepared by the institution after internal discussions, and no part thereof has been outsourced.

I am aware that the Peer team will validate the information provided in this SSR during the Peer team visit.

Place: Patiala
Date:

Signature of the Head of the
Institution

with Seal :

Statement of Compliance
(State University)

This is to certify that PUNJABI UNIVERSITY PATIALA has complied with all the provisions of the following University Grants Commission (UGC) Regulations governing it:

- Minimum Qualifications for Appointment of Teachers and other Academic Staff in Universities and Colleges and Measures for the Maintenance of Standards in Higher Education 2010 and further amendments, if any, notified by the UGC.
- Minimum Standards and Procedure for the Award of M.Phil./ Ph.D. Degree, Regulations 2009 and further amendments, if any, notified by the UGC.
- UGC (Affiliation of Colleges by Universities) Regulations, 2012 and further amendments, if any, notified by the UGC.

Any false or misleading information provided by the institution, will be viewed seriously by NAAC and the accreditation given is liable to be withdrawn.

Date

Name and Signature with seal
of the Vice Chancellor

Preface

It is a matter of privilege for the Punjabi University Patiala to submit its SSR to NAAC for accreditation (cycle-3). The SSR of the University is compiled in 2 parts. The Part-I presents the Profile of the University, Executive Summary and the Criteria-Wise Inputs of the University.

The Part-II of SSR comprises of the evaluative reports of the teaching and research departments, neighbourhood campuses and regional centres of the University.

While preparing the SSR, the University took every care to follow the guidelines of the NAAC.

Contents

Executive Summary (SWOC Analysis)

Punjabi University, Patiala, one of the premier institutions of higher education in north India, was established on 30th April, 1962 under the Punjab Act No. 35 of 1961. Although the University was established for the purpose of nurturing and sustaining the development of Punjabi language, literature, art and culture but over the years it has evolved into a multi-faceted and multi-faculty educational institution with 68 teaching and research departments, 13 neighbourhood campuses/regional centres and 11 constituent colleges covering the disciplines of 10 faculties.

Since the last accreditation, the University has grown in terms of:-

- departments

- chairs

- students and students support services

- research paper publications

- teachers

- research, consultancy and extension activities

- infrastructure and Learning Resources and many more

The SWOC analysis of the University is given below:

Strengths

Criteria 1 – Curricular Aspects

- Curriculum design is aligned with the goals and objectives of University
- Curriculum design and development is done through a well defined process
- Curricula developed/adopted have relevance to the local/national/ regional/global developmental needs
- Employability & entrepreneurship, pursuit of higher knowledge, overall development of students are major considerations in the design and development of the curriculum
- Consultation with academic experts, industry/employment sector/ alumni/other stakeholders within and outside the University is effectively done for developing the curricula in majority of the departments
- Leadership is provided to affiliated colleges (if applicable) for enriching the curriculum by encouraging skill development, need based programmes, etc.

- The University offers a number of programme options leading to different degrees, diplomas and certificates (UG/PG/PG Diploma/ Diploma Certificate)
- The curriculum offers a number of Choice Based Credit System (CBCS) / elective options
- A number of new programs and program combinations are developed /adopted to meet the needs of the students and the society
- Options are available to students for additional/supplementary/ enrichment courses along with their regular curricula. (*e.g.* UG degree + a Certificate PG degree + a diploma and so on)
- Not only started a number of job oriented programmes but also improved the access and equity through Neighbourhood Campuses, Regional Centres and Constituent Colleges
- The University provides for inter-credit transfers
- The University follows a semester system
- The University revises the curriculum at regular intervals and analyses the impact
- The curriculum provides adequate scope for introducing programmes in emerging thrust areas/interdisciplinary areas
- All learners have access to value-added programmes, including communication skills / soft skills
- Feedback from students is an essential component in the curricular design and development process
- The University draws on the feedback from national and international faculty
- Inputs from affiliated colleges are an essential part of the feedback system.

Criteria 2 – Teaching-learning and Evaluation

- The admission process of the University is widely publicized and is transparent
- The University has periodic reviews of its enrolment profile and the outcomes are used for improvement of the process
- The University has an inclusive admission policy catering to diverse student groups
- The University implements the statutory reservation policies
- The University organises orientation programmes/induction programmes for freshers at department levels
- At department level teachers assess the learning levels of the students, after admission and design programmes for advanced learners and slow learners
- The University fosters an inclusive academic ambience
- The University meticulously plans and organizes its teaching schedule
- Student centered methods are an integral part of the pedagogy adopted by the faculty
- Experiential learning, participative learning, problem solving methodologies are used

- The University has formal linkages with national agencies to promote blended learning in many of the departments
- Wherever necessary, latest technologies are used by the faculty for effective teaching
- The learning environment is conducive for critical thinking, creativity and scientific temper
- The University follows a system of mentor-mentee to meet the academic and personal needs of students
- The University gives due recognition to innovative and creative contributions of its faculty and students
- Projects / field experiences are integrated into the learning programmes
- The University has adequate, well qualified faculty
- Diversity in the recruitment of faculty is encouraged
- The University facilitates the participation of its teachers in teacher recharge programmes
- The University fully adheres to UGC/ State Government norms for faculty recruitment and promotion
- The University organizes induction and in-service academic development programmes for its faculty
- The University attracts distinguished faculty for appointment as emeritus / distinguished professors/ life fellows
- The faculty is encouraged to demonstrate creativity and innovation in teaching
- The University facilitates mobility of its faculty through exchange programmes
- The University disseminates the evaluation processes to all its stakeholders
- The University adheres to the academic calendar for conduct of examinations
- The University ensures timely declaration of results. (for Universities and Autonomous & Affiliated Colleges)
- Reforms in the examination procedures and processes have positively impacted the examination management system
- Transparency and security of evaluation system is ensured
- Technology is effectively used in the examination management process
- The University has an effective mechanism for redressal of grievances pertaining to examinations
- The graduate attributes of the University are clearly defined /articulated
- The University ensures that its various programmes and activities help achieve the stated graduate attributes
- The University encourages all its departments to clearly state the learning outcomes of its programmes
- The achievement of intended learning outcomes is central to the pedagogical and assessment processes of the university
- The University has mechanisms in place to analyze short falls in achievement of learning outcomes and suggest improvement measures

- New technologies are deployed by the University to enhance student learning

Criteria 3 – Research, Consultancy and Extension

- The University facilitates its faculty to undertake research by providing research funds (seed money)
- Provision for research facilities in terms of laboratory equipment, research journals and research incentives are made available to the faculty
- The University encourages and promotes a research culture (*e.g.* teaching work load remission, opportunities for attending conferences, etc.)
- The faculty are encouraged to undertake research by collaborating with other research organizations/ industry (3 departments under the UGC-CAS, 8 departments under UGC-SAP, 6 departments under UGC-BSR and 11 departments under the DST-FIST programmes. Above this there is the sanction of a DBT sponsored Interdisciplinary Programme of Life Sciences (DBT-IPLS) programme)
- Faculty are given due recognition for guiding research
- The University has research committees for promoting and directing research
- The University has a well defined policy to promote research in its affiliated / constituent colleges
- Significant amount of workshops/ training programmes/ sensitization programmes are conducted by the University to promote a research culture on campus
- The University facilitates researchers of eminence to visit the campus as adjunct professors
- Financial provisions are made in the University's budget for supporting students' research projects
- The University makes special efforts to encourage its faculty to file patents (patents registered and accepted: 22)
- Projects sponsored by the industry / corporate houses are availed by the University (Projects : 2, Total funding 78.75 lakhs)
- The University has received 35,23,80135 rupees as research grants from external agencies for major and minor projects (63 major and minor projects are completed)
- The University has 29 externally funded recognised Research Centres. (National and international, *e.g.* UGC, ICSSR, ICHR, ICPR, DST, DBT, UNESCO, UNICEF)
- Efforts are made by the University to improve its infrastructure requirements to facilitate research
- The University has a University Science Instrumentation Centre (USIC)
- Residential facilities for research scholars, post-doctoral fellows, research fellows of various academies and visiting scientists (national/international) are available

- The University has a specialized research centre/workstation on-campus and off-campus to address the special challenges of research programmes
- The University has centres of national and international recognition/repute
- Research facilities are enhanced through research projects
- Faculty is fully involved in research. It has published 438 Books, 154 edited books, 478 Chapters in books and 5400 research Papers.
- The University publishes 10 research journals
- The University follows Code of Ethics to check malpractices and plagiarism in research
- Interdepartmental / interdisciplinary research projects are undertaken
- Incentives in the form of appreciation, benefits in promotions and funding to further the activities are given to the faculty for receiving state, national and international recognition for research contributions
- Significant amount of Research awards and recognition are received by the faculty and students from reputed professional bodies and agencies
- Significant amount of M.Phil and Ph.D. students are guided by the faculty. In the last four years university has produced 765 Ph.Ds. (Till date as many as 437 Ph.D. theses are uploaded on *Shodhganga*)
- The University has received research recognition, awards and patents (please refer to 3.2.1 and 3.4.4)
- The University's research has contributed to the industry's requirements/productivity
- 5400 research articles/papers are published in reputed/refereed journals
- The University has published books and proceedings based on research work of its faculty
- The University is acclaimed for its research as evidenced by metrics such as Citation Index, Impact Factor, h-index given in the evaluative reports of the departments
- The University publicizes the expertise available for consultancy services through different means
- The University renders consultancy services to industries/ Government / Non- Government organizations/ community/ public (University has MoU with 8 industries/organizations for this)
- 11,30,000 rupees were generated through consultancy services of the University during the last year
- Mutual benefits accrued due to consultancy
- The University has an official policy for structured Consultancy. This is given in University Calendar vol III
- The conduct of extension activities is promoted by the University
- NSS/sports/cultural activities and other need-based extension programmes are organized by the students and the faculty. For this different awards and recognitions have been received by the students and the faculty
- The impact of extension activities on the community goes through a cycle of evaluation, review and upgrading the extension programmes

- Partnerships with industry, community and NGOs for extension activities are established
- The University has a mechanism to track the students' involvement in various social movements/activities which promote citizenship roles. This is done through the office of Dean Students Welfare
- The University is cognisant of its Institutional Social Responsibilities (ISR) and all constituents of the University are made aware of its ISR
- The University has linkages for various activities such as faculty exchange, student placement, etc. The linkages established by the University have enhanced its academic profile. The University has 28 MoUs with Universities of national/international importance/ industries/corporate houses, etc.
- There are research programmes going on under the UGC and Government funding. These are Centre for Diaspora Studies, Centre for Women Studies, Baba Farid Centre for Sufi Studies, Centre for Census Studies and Research, Centre for South West Asia Study (Pakistan and Afghanistan), Centre for Development of Economics and Innovation Studies, etc.
- In addition to the above the University has established a few study centres for research namely: Sri Guru Tegh Bahadur National Integration Chair, Bhai Gurdas Chair, Bhai Veer Singh Chair, Gurmat Sangeet Chair and Maharshi Valmiki Chair.
- The establishment of Sophisticated Instruments Centre at Punjabi University has improved the quality of research being carried out in the science departments of the University and also of the region. The quality of research and number of publications have significantly improved during this period. A total of 438 books and 5400 research papers have been published by the faculty members of the university. The hard work by the faculty members has resulted in 22 patents.
- There is substantial increase in the credibility of the University among various funding agencies for future financial support

Criteria 4 – Infrastructure and Learning Resources

The university:-
- has adequate facilities for teaching-learning
- provides necessary facilities for laboratories. (Furniture, fixtures, equipment and good laboratory practices)
- has adequate facilities for general computer education of students
- augments Infrastructural facilities from time to time and utilizes these facilities optimally
- provides additional facilities for sports and extra- curricular activities (gymnasium, auditorium, etc.)
- provides Health services for students, teaching and non-teaching staff
- facilitates active academic participation of physically disabled students by providing the necessary facilities
- has adequte physical facilities such as reading room, reprography, internet in the library

- has a huge collection of 4,61,704 books, 53835 back volumes of journals, 9175 theses, 215 e-books, and over 7500 e-journals (Indest Consortium & Dissertation Abstract Internation) in its Central Library in the campus
- augments library resources every year with newer editions and titles
- has advisory committee which is responsible for the effective functioning of the library and its operations (issue of books, getting the necessary references, etc) are effective and user-friendly
- library collects feedback from users and incorporates the suggestions for its enhanced functioning
- library is computerized and networked with INDEST, INFLIBNET, JCCC
- frequently upgrades its IT facility and has latest computing facilities – hardware and software
- faculty members are provided with the requisite facilities for preparation of computer aided teaching learning material
- is connected with the National Knowledge Network and other such facilities
- makes budget provision for purchase, upgrading and maintenance of computers
- has a budget for maintenance of the facilities available on the campus – physical facilities and academic support facilities
- has established procedures and systems for maintaining and utilising physical and academic support facilities – library, sports complexes, computers, classrooms etc
- funds allocated for maintenance of infrastructure are utilised in total for the planned activities

Criterion 5 - Student Support and Progression

The University:-
- has an independent system for student support and mentoring
- provides adequate student welfare measures (scholarships, freeships, insurance, etc.)
- has personal enhancement and development schemes for the students (coaching classes for competitive examinations, career counseling, soft skill development, etc.)
- information is publicly accessible to the students and public
- has a directorate of international students to cater to the requirements of foreign students
- encourages student participation in co-curricular and extra-curricular activities
- has a placement cell which helps to identify job opportunities and develop entrepreneurship skills and also make arrangements for on-campus interviews for student placement
- has a mechanism for timely redressal of student grievances
- has an anti-ragging committee at university as well as department levels which monitors student interactions effectively

- provides specific student support for SC, ST, OBC, PWD and economically weaker sections of society
- has a mechanism for prevention of sexual (gender) harassment
- makes special efforts to reduce its dropout rate and increase its pass percentage
- facilitates and monitors timely submission of Ph.D./D.Litt./D.Sc. theses
- has a successful track record of students appearing and qualifying in competitive examinations
- has a range of games, extra-curricular activities which contribute to overall development of students
- uses feedback from students for planning and developing support services
- encourages active student participation through Student Council (the Student Council is constituted every year)
- students are represented on academic and administrative bodies of the University
- facilitates for students to publish materials like catalogues, wall magazines, University magazines, etc
- encourages student participation in state, national and international level sports/cultural/NSS events

Criteria 6 – Governance, Leadership and Management

The University:-
- has vision, mission and goals which are in tune with the objectives of higher education
- has an effective leadership
- practices decentralization and participative management
- provides academic leadership to its affiliated colleges
- formulates its strategic planning and interacts with stakeholders
- regularly monitors and evaluates its policies and plans
- grooms leadership at various levels
- decisions are governed by management of facts, information and objectives
- prepares perspective plan document which is an important component of the University's strategy development and deployment process
- has a well defined organisational structure with effective processes developed for all its major activities
- has an effective feedback system involving all stakeholders
- has an action plan and schedules for its future development
- has an effective Grievance Redressal Cell
- effectively handles management and monitoring of the affiliated colleges through College Development Council
- also considers Student Satisfaction Survey as an input factor for all policies of the University
- takes sustained interest in recruitment and promotion aspects of its employees

- adheres to Government of India/State Government policies on recruitment (access, equity, gender sensitivity and physically disabled)
- has an effective welfare mechanism for teaching and non-teaching staff
- ensures transparent use of Performance Appraisal Reports
- conducts programmes to enhance the competency of its faculty and non-teaching staff
- uses performance budgeting as a core planning activity for decision making
- incorporates gender auditing to enhance inclusiveness
- has effective welfare mechanisms for its teaching and non-teaching staff
- conducts programme for professional development of its staff
- HRD centre programmes forms an important feedback for improvement of programmes
- strictly adheres to optimal utilization of budget
- conducts internal and external audits regularly for better monitoring and management of finances
- leadership takes initiatives for mobilization of resources
- considers academic audit of departments and its impact as an important quality initiative
- has an effective quality management and enhancement systems
- reviews its teaching learning process, structure, methodologies of operations and learning outcomes at periodic intervals
- Internal Quality Assurance Cell (IQAC) has contributed significantly to institutionalizing quality assurance strategies and processes
- Receives valuable feedback from the external members of the IQAC for its functioning
- encourages autonomy to its academic departments

Criteria 7 – Innovations and Best Practices

The University:-
- conducts Green audit of its campus regularly and promotes eco-friendly campus
- has well maintained, neat and lush green environment friendly campus, promoting healthy work place environment
- celebrates Biodiversity Day, Environment Day and Earth Day every year
- has Punjabi University Environment Society (PUES) which tries its level best to create environment consciousness among students, research scholars, non-teaching staff and faculty members by organizing different kinds of activities
- has effective mechanism for energy conservation, waste water treatment for irrigation, management of hazardous waste and waste from laboratories
- has introduced number of innovations which have created a positive impact on the functioning of the University (please refer 7.2.1)

- has number of best practices which have contributed to better academic and administrative functioning of the University (please refer 7.3 and 7.4)
- provides excellent logistics support viz. Transportation, Security, Water supply, Electricity, Health fitness centre, Health centre, Physiotherapy facility etc.

Weaknesses

- In case of a few departments, consultations with academic industry/employment sector /alumni is not as effective as it has to be for developing the curricula
- A few departments do not assess the learning levels of the students after admission
- Many of the departments do not analyse the academic growth of differently-abled students
- Many of the departments do not have formal linkages with national agencies like NMEICT to promote blended learning
- Students' feedback about the teachers is not being taken formerly by all the departments
- Faculty strength in a few of the departments is not adequate
- A few of the sanctioned teaching posts are vacant
- The University has only one professor of emeritus and two adjunct professors on its roll
- Only 1% percentage of faculty have utilized sabbatical leave provision for pursuit of higher research in premier Universities within the country and abroad
- Residential facilities for research scholars, post-doctoral fellows, research fellows of various academies and visiting scientists (national/ international) are available but computer and internet facilities is not provided to all at residences.
- The University has not instituted any research awards
- Resources (financial and material) generated through consultancy services of the University are roughly around 9 lakhs per annum. Since most of consultancy is done either free or at nominal rates, the amount generated is less.
- Institute-industry interactions have not resulted in the establishment / creation of any highly specialized laboratories/ facilities
- The Alumni Association contributions are not as significant as these should be for the development plans of the University
- The progression of students in various programmes of the University is not effectively monitored
- The University does not have sufficient funds to make adequate budgetary provisions for all the academic and administrative activities
- Till June 2012, the university maintained the Reserve and Corpus Fund. After June 2102, this practice was discontinued due to scarcity of funds
- Shortage of funds
- Weaker consultancy

- Hostel facility is not available to all the interested Students
- Limited number of Smart Classrooms
- Swimming pool is not available in the University

Opportunities

The University has opportunity to:-
- develop autonomous schools/centres of excellence especially in Faculties of Physical Sciences, Medical Sciences and Life Sciences
- improve funded research and consultancy
- enhance collaborations with reputed national/international academic and research Universities.
- enhance placement opportunities for UG and PG students.
- introduce more Vocational Courses to enhance employment opportunities
- provide consultancy services to the neighbouring industries

Challenges
- Challenge of finding quality faculty in Neighbourhood and Regional Campuses and Constituent colleges.
- Challenge of expanding and sustaining the quality of programmes running in Neighbourhood Campuses, Regional centres and Constituent colleges.
- Expenditure incurred in running Neighbourhood and Regional Campuses and Constituent Colleges is affecting the functioning of main campus at Patiala.
- The University has gained high reputation in research at the national and international level. There is a challenge to sustain and excel as the competition is increasing.
- The establishment of private universities and institutes with less stringent rules are attracting faculty and students and also disturbing the intake of research motivated students to our University.
- The University faces a great challenge to attract foreign and NRI students.
- Challenge to have more departments under UGC-SAP and other schemes.

Profile of the University

1   Name and Address of the University :

Name of the University:	Punjabi University, Patiala
Address of the University:	Rajpura Road, Patiala.
City: Patiala **Pin: 147002**	State: Punjab
Website:	punjabiuniversity.ac.in

2   For communication:

Designation	Name	Telephone with STD Code	Mobile	Fax	E-mail ID
Vice-Chancellor	Dr. Jaspal Singh	O: 0175-3046001 R: 0175-3046005	98786-73990	2286682	vc@pbi.ac.in
Pro-Vice-Chancellor (s)	No Provision				
Registrar:	Dr. Devinder Singh	O: 0175-3046030 R: 0175-2281271	98157-96591	2283073	registrar@ pbi.ac.in
Steering Committee Co-ordinator:	Dr. Manjeet Singh Patterh	O: 0175-3046310 O:0175-3046618	98159-87703	-	iqacell@ gmail.com

3   Status of the University:

State University	Yes
State Private University	No
Central University	No
University under Section 3 of UGC (Deemed University)	No
Institution of National Importance	No
Any other (specify)	No

4   Type of University:

Unitary	No
Affiliating	Yes

5   Source of Funding :

Central Government	No
State Government	Yes
Self-Financing	No
Any other (Please Specify)	No

6

a)	**Date of establishment of the University**	30 April 1962
b)	**Prior to the establishment of the university, was it a/n**	
	(i) PG Centre	No
	(ii) Affiliated College	No
	(iii) Constituent College	No
	(iv) Autonomous College	No
	(v) Any other (please specify)	No
	If yes, give the date of establishment	

7   Date of recognition as a university by UGC or any other national agency:

Under Section	**dd**	**mm**	**yyyy**	**Remarks**
i. 2f of UGC*	30	04	1962	
ii. 12 (B) of UGC*	30	04	1962	
iii. 3 of UGC Act#				
iv. Any other ^ (specify)				

*Enclose Certificate of recognition: It is not available. Regarding recognition a certificate from Registrar is enclosed at page no. 24.

#Enclose notification of MHRD and UGC for all course/programmes/campus/ campuses.

^ Enclose Certificate of recognition by any other national agency/agencies, if any.

8 Has the University been recognized

a)	**By UGC as a university with Potential for Excellence?** **If yes, date of recognition (dd/mm/yyyy)**	No
b)	**For its performance by any other governmental agency?** **If yes, Name of the agency .... and date of recognition: ....(dd/mm/yyyy**	No

9   Does the University have off-Campus?   Yes   13   off Campuses

		Year of Establishment
(i)	Punjabi University Regional Centre for Post Graduate Studies Bathinda	1984
(ii)	Nawab Sher Mohd. Khan Institute of Advanced Studies in Urdu, Persian and Arabic, Malerkotla.	1988
(iii)	University School of Business Studies, Guru Kashi Campus Talwandi Sabo	1988
(iv)	Punjabi University Regional Centre for Law Bathinda	1995
(v)	Punjabi University Regional Centre for IT & Management, Mohali,	2000
(vi)	Punjabi University Regional Centre for Education Bahinda	2001
(vii)	Yadvindra Collecge of Engineering & Technology, Talwandi Sabo	2004
(viii)	Punjabi University College of Engineering & Management Rampura Phul (Bathinda)	2005
(ix)	Punjabi University Baba Dhyan Dass Neighbourhood Campus Jhuneer.	2005
(x)	Punjabi University Akali Phoola Singh, Neighbourhood Campus, Dehlan Seehan (Sangrur)	2006
(xi)	Punjabi University Baba Jogi Peer Neighbourhood Campus, Ralla, Mansa,	2006
(xii)	Punjabi University Neighbourhood Campus Jaiton (Fradikot)	2008
(xiii)	Punjabi University Campus Maur (Bathinda)	2009

10   Does the university have off-shore Campuses?   No

11   Location of the campus and area:

	Location*	Campus area in acres	Built up area in sq mts
Main Campus area	Semi-urban	312 acres	385790 Sqm
Total Area of Thirteen Satellite Campuses	Rural/Semi-urban	323 acres	469258 Sqm

(*Urban, Semi-Urban, Rural, Tribal, Hilly Area, Any other (please specify)

If the university has more than one campus, it may submit a consolidated self-study report reflecting the activities of all the campuses.

12   Provide information on the following: In case of multi-campus University, Please provide campus-wise information.

Auditorium/seminar complex with infrastructural facilities.	
- Sri Guru Tegh Bahadur Hall with A.C. and capacity of 1361 Chairs - Science Auditorium, with A.C and capacity of 306 Chairs. - Kala Bhawan with capacity of 317 Chairs. - Student Home - Open theater - Arts Audiotorum with A.C and 422 Chairs - Senate Hall 140 Chairs, AC, *Seminar Hall* - University Campus = 21 - Neighbourhood Campus and Regional Centres = 03	
Sports facilities	
*Playgrounds - Air-conditioned Shooting Range - Standard Boxing Hall - Standard Athletics Cinder Tract of 400 Mts. having flood-lighting facility. - IAAF Synthetic Athletics Track is under construction. - Velodrome (for cycling) with flood lights and beautiful pavilion. - Two standard outdoor concrete Basketball courts - One Hockey Field (grassy). - Three Volleyball courts with enclosure. - Two Handball courts (one clay and one concrete with enclosure). - Two Football fields (grassy) - Two Tennis courts (clay) with enclosure. - One open Archery range of 100 Mts. - One standard size Cricket Field. - Two Netball courts.	

• Two Korfball courts. • Two Kabaddi courts. • Two Kho-Kho courts. • Baseball Ground • Softball Ground.	
Gymnasium • 01 with modern facilities	
*Any other (please specify) • Two Air conditioned Hostels for Sports students having the capacity to accomodate 200 boys and 200 girls. • One bus for Sports department • Physiotherapy centre : which attends to the players/ athletes daily between 6.00 am to 7.00 pm. • Funding : 247 Colleges are affiliated to Punjabi University, Patiala. Department of Sports collects the funds from affiliated colleges and use these funds to conduct different sports competitions.	
Hostels	15
Number of boy Hostels	07
Number of inmates	2696
Facilities	
• Reading Room • Mess • TV Room • Common Room • Guest Room • Newspaper • Magazines • Wi-fi • Sound Systems • R.O System • Sports	
Number of Girls Hostels	08
Number of inmates	2887

Facilities • Reading Room • Mess • TV Room • Common Room • Guest Room • Newspaper • Magazines • Wi-fi • Sound Systems • R.O System • Sports	
Residential facilities for faculty and non-teaching	Yes
Cafeteria	Yes
Health Centre-Nature of facilities available-inpatient, outpatient, ambulance, emergency care facility, etc.	
Health Centre	Yes
Outpatients	Yes, in case of Allopathy, Homeopathy & Physiotherapy
Ambulance	Yes, two Ambulances are available.
Emergency	Yes
Inpatient	No
Facilities like banking, post office, book shops, etc.	
Bank, Post office, Stationery shops and Medical Store	Yes
Transport facilities to cater to the needs of the students and staff	Yes
Facilities for persons with disabilities	
Ramps have been constructed to approach all the departments' hostels and other buildings.	Yes
Animal house	Yes
Incinerator for laboratories	Yes (Contract with Medicare Environmental Management Private Ltd. Ludhiana)
Power house	Yes
Waste management facility	Yes
Sewage water Treatment for Irrigation	Yes

13 Number of institutions affiliated to the University 247

Type of colleges	Total	Permanent	Temporary
Arts, Science and Commerce	150	54	96
Law	07	02	05
Medicine	-	-	-
Engineering	-	-	-
Education	82	09	73
Management/Hotel Management	03	-	03
Other (specify and provide details)/ Physical Education	05	02	03

14 Does the University Act provide for conferment of autonomy (as recognized by the UGC) to its affiliated institutions? If yes, give the number of autonomous colleges under the jurisdiction of the University.

Yes, conferment of autonomy is provided under the ordinance as per the University Act.

So far only one college has been granted the status of autonomous by UGC.

15 Furnish the following information:

	Particulars	Number	Number of Students
a	University Departments		
	Undergraduate	0	-
	Post graduate (main campus)	58	14563
	Neighbourhood Campuses/Regional Centres	13	3554
	Research centres on the Campus	10	0
b	Constituent Colleges	11	11622
c	Affiliated colleges	247	209028
d	Colleges under 2 (f) and 12 B	53	95559
e	NAAC accredited Colleges	47	39709
f	Colleges with potential for Excellence (UGC)	1	3475
g	Autonomous colleges	1	5393
h	Colleges with Postgraduate programmes	63	109856
i	Colleges with Research Departments	0	0
j	University recognized Research Institutes/ Centres	0	0
	Total	**504**	**492759**

16 Does the University conform to the specification of Degrees as enlisted by the UGC?

Yes

If the university uses any other nomenclatures, N/A
please specify.

17   **Academic programmes offered by the university departments at present, under the following categories: (Enclose the list of academic programmes offered)**

Programmes	Number
UG	26
PG	73
Integrated Masters	08
M.Phil.	27
Ph.D.	51
Integrated Ph.D	00
Certificate	15
Diploma	09
PG Diploma	20
Any other (Please Specify)	05
Total	**234**

18   **Number of working days during the last academic year**   200 days

19   **Number of teaching days during the past four academic years**

2010-11=178 days
2011-12=181 days
2013-14=190 days
2014-15=188 days

Teaching days means days on which classes were engaged. Examinations days are not included

20   **Does the university have a department of Teacher Education?**   Yes

a)	Year of establishment	1967
b)	NCTE recognition details (if applicable) Notification NRC/NCTE/F-3/PB-2282005/7364	No. AP 02089 Date 28 July 2005
c)	Is the department opting for assessment and accreditation Separately?	No

21.   **Does the university have a department of Physical Education?**   Yes

a)	Year of establishment	2005
b)	NCTE recognition details (if applicable)	Department has applied for recognition
c)	Is the department opting for assessment and accreditation Separately?	No

| 22 | In the case of private and Deemed Universities, please indicate whether professional programmes are being offered? | Not Applicable |
| | If yes, please enclose approval/recognition details issued by the statutory body governing the programme. | Not Applicable |

23 Has the University been reviewed by any regulatory authority? If so, furnish a copy of the report and action taken there upon.

Yes, few of the departmetns have been reviewed by regulatory authorities. Department of Pharmaceutical and Drug Research by PCI, Department of Law by BCI Department of Edcuation and Community Services by NCTE and Department of Distance Education by UGC-DEC.

24 Number of positions in the university

Positions	Total Faculty	Teaching faculty			Non-teaching Staff	Technical Staff
		Professor	Assoc. Prof.	Asstt. Prof.		
sanctioned by the UGC/University/ State Government	1532	201	148	1183	2527	878
Recruited	777	138	51	588	1873	619
Number of persons working on contract basis	208	0	0	208	234	28
Re-employed	66	62	0	04	-	-
Total recruited	1051	200	51	800	2107	647
Yet to recruit	481	01	97	383	420	231

25 Qualification of the teaching staff

Highest qualification	Professor		Associate Professor		Assistant Professor		Total
Permanent Teachers							
	Male	Female	Male	Female	Male	Female	Total
D.Sc./D.Litt.	0	0	0	0	0	0	0
Ph.D.	94	44	27	20	170	158	513
M.Phil.	0	0	1	0	17	12	30
PG	0	0	3	0	117	114	234
Total							**777**
Temporary teachers							
Ph.D.	42	20	0	0	0	0	62
M.Phil.	0	0	0	0	12	10	22
PG	0	0	0	0	104	86	190
Total							**274**

26 Emeritus, Adjunct and Visiting Professors.

Professor	Emeritus	Adjunct	Eminence	Visiting
Number	01	02	04	134

27 Chairs instituted by the university:

School/Departments	Chairs
Department of Gurmat Sangeet	Gurmat Sangeet Chair
Department of Sanskrit and Pali	Maharishi Valmiki Chair
Department of Punjabi Literary Studies	Bhai Vir Singh Chair
Department of Guru Gobind Singh Religious Studies	Bhagwan Mahavir Chair
Department of Sri Guru Granth Sahib Studies	Bhai Gurdas Chair
Independent	Sri Guru Tegh Bahadur Integration Chair

28   Students enrolled in the university departments during the current academic year, with the following details

Main Campus (Total Students enrolled = 14563)

Students	UG		PG		Integrated Masters		M.Phil.		Ph.D.		Integrated Ph.D.		D.LiT/D.Sc		Certificate		Diploma		PG Diploma	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
From the state where the university is located	3063	1371	2732	4219	238	317	162	224	210	323	4	0	0	0	130	80	32	34	108	104
From other states of india	224	84	106	280	42	7	49	86	49	35	16	59	0	0	4	5	29	30	5	15
NRI students	1	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
Foreign students	0	1	5	1	0	0	0	0	74	3	0	0	0	0	0	0	0	0	0	0
Total	**3288**	**1456**	**2843**	**4501**	**280**	**324**	**211**	**310**	**334**	**361**	**20**	**59**	**0**	**0**	**134**	**85**	**61**	**64**	**113**	**119**

29   'Unit Cost' of education

(Unit Cost=total annual recurring expenditure (actual) divided by total number of students enrolled)

a)	including the salary component	Rs. 57525
b)	excluding the salary component	Rs. 31122

30   Academic Staff College (HRD Centre)

Year of establishment	April 2009
Number of programmes conducted (with duration)	
UGC Orientation	23 of four weeks duration
UGC Refresher	48 of three weeks duration
University's Own Programmes	

31   Does the university offer Distance Education Programmes (DEP)   Yes

If yes, Indicate the number of programmes offered

PG	20
UG	06
PG Diploma	06
Diploma	03
Certificate Course	08
Other Course	04

Are they recognized by the Distance Education Council?   Yes

22

32 **Does the university have a provision for**   No
external registration of students?
If yes, how many students avail of this
provision annually?

33 **Is the university applying for Accreditation or Re-Assessment? If Accreditation, name of the Cycle.**

Accreditation   Cycle 03

34 **Date of accreditation* (applicable for Cycle 2, Cycle 3, Cycle 4 Re-Assessment.**

Cycle	Date of accreditation	Accreditation outcome
1	05-11-2001	Above 75% Five Stars
2	16-09-2008	CGPA 3.11/Grade-'A'
Accreditation Certificates are attached at the end of the Profile and for Peer Team Report please see page no. 346.		

35 **Does the university provide the list of accredited institutions under its jurisdiction on its website? Provide details of the number of accredited affiliated/ Constituent/ autonomous colleges under the university.**

Yes. Accredited affiliaed colleges = 47 & Autonomous college = 01

36 **Date of establishment of Internal quality Assurance Cell (IQAC) and dates of submission of Annual Quality Assurance Reports (AQAR).**

IQAC : Date of establishment 1-8-1999

(i)	AQAR 2008-09 submitted to NAAC on 30/6/2010
(ii)	AQAR 2009-10 submitted to NAAC on 26/6/2011
(iii)	AQAR 2010-11 submitted to NAAC on 21/6/2012
(iv)	AQAR 2011-12 submitted to NAAC on 29/1/2014
(v)	AQAR 2012-13 submitted to NAAC on 22/8/2014

REGISTRAR
PUNJABI UNIVERSITY,
PATIALA

ਰਜਿਸਟਰਾਰ,
ਪੰਜਾਬੀ ਯੂਨੀਵਰਸਿਟੀ,
ਪਟਿਆਲਾ

Certificate of University Recognition

It is to certify that Punjabi University, Patiala has been established under Punjab Act No. 35 of 1961. The University is recognised by the University Grants Commission under Section 2 (f) and 12 (b) of UGC Act 1956.

Registrar

CRITERION I
CURRICULAR ASPECTS

Criterion I: Curricular Aspects

1.1 CURRICULUM DESIGN AND DEVELOPMENT

1.1.1 How is the institutional vision and mission reflected in the academic programmes of the university?

Punjabi University, Patiala, established on 30th April, 1962 under the Punjab Act # 35 of 1961, is one of the premier institutions of higher learning. This is the second University in the world to be named after a language. The vision and mission of the University have been stated in Punjabi University Act 1961as follows:

"to establish and incorporate a University for the advancement of Punjabi studies and development of Punjabi language as a medium of instruction or otherwise for the providing of instruction in humanistic and scientific subjects and generally for the promotion of education and research."

As per the Act, "the University shall exercise the following powers and perform the following duties":
- to make provision for imparting education in the humanities, sciences, learned professions and such other branches of learning and courses of study as it may think fit and to make provision for research and for the advancement and dissemination of knowledge.
- to promote Punjabi studies, to provide for research in Punjabi literature, to undertake measures for the development of Punjabi Language and to progressively adopt it as a medium of instruction and examination for as many subjects as possible.
- to institute and confer degrees, diploma…." (Punjabi University, Patiala Calendar, Vol.1, 1-3)

The vision and mission of the University are reflected in letter and spirit in the academic programmes offered by the University from time to time.

The main objective of the University, *i.e.* the advancement and promotion of Punjabi Language, research in Punjabi Literature and Punjabi studies, and the development of Punjabi Language as a medium of instruction and examination in various fields of study is closely adhered to in most of the academic programmes offered by the University. In all the UG and some of the PG programmes, Punjabi is taught as a compulsory subject. In the professional courses and for international students, Courses on Elementary Punjabi have also been introduced and provision for Online teaching of Punjabi has also been made. Punjabi is used as medium of instruction and is also allowed as medium of examination in majority of the academic programmes. Students can submit M.Phil/Ph.D thesis in Punjabi Language also in most of the programmes barring the Courses in Languages other than

Punjabi.

There are many teaching and research departments devoted to the teaching, research, production and dissemination of knowledge in Punjabi Language, Literature and Punjabi studies. Recognising the importance of ICT, the University has developed and uploaded many software for promoting Punjabi Language and Literature which are made a part of the curricula in many programmes. One of the innovative practices for the promotion of Punjabi Language followed by the University is getting the books written in English in different subjects translated into Punjabi and vice versa which are also made a part of the curricula of different academic programmes.

As per the vision and mission of the University, over the period of time since its establishment, the University has evolved into a multi-faceted and multi-faculty institution for the promotion of higher education and research in humanities, sciences, learned professions and many other branches of learning. Presently, through various academic programmes in Humanities, Arts, Sciences, Engineering,Languages, Technology and many more catered in 68 Teaching and Research Departments, 13 Neighbourhood Campuses and Regional Centres, 11 Constituent Colleges and 247 Affiliated Colleges, the University is fulfilling its vision and mission of disseminating knowledge in traditional and emerging disciplines as per the regional, national and global needs and confers degrees/diplomas in these.

1.1.2   Does the university follow a systematic process in the design and development of the curriculum? If yes, give details of the process (need assessment, feedback, etc.).

Yes, in designing and developing the curriculum the University follows a systematic process. Curriculum is designed as per the benchmarks, standards, procedures and guidelines of regulatory bodies like UGC, AICTE, NCTE, Bar Council of India, Pharmacy Council of India, etc.

Curriculum is evaluated and updated from time to time on the basis of regular assessment and feedback of students, suggestions of faculty members, resource persons from industries, academic and research institutions and external experts having representation on various University bodies. The syllabi are developed and finalized after thorough discussion in the meetings of the Administrative Committees of the Departments (ACD), respective Boards of Studies, Faculties, and Academic Council.

1.1.3   How are the following aspects ensured through curriculum design and development?

- Employability
- Innovation
- Research

Curriculum is regularly reviewed and revised keeping in view the recent trends in public and private sectors, technological advancements, research and developments at national as well as international level so as to ensure maximum employability of the students. The curriculum of various subjects includes theory papers, practical training, field work, project work, communication skills, soft skills and personality development to make our students gainfully employable. Students are counselled on regular basis and facilitated with internship and job opportunities by making tie-ups with the government and industry. Participative and interactive teaching and learning process is enhanced through lectures, tutorials, presentations, e-resources, special extension lectures, conferences/seminars, workshops etc. which equip the students to become employable.

Keeping pace with the latest public and private market trends, many innovative and research based subjects in Engineering, Management, Pharmacy, Computer Science and other disciplines have been introduced. Nanotechnology,Television, Advertising, Hospitality, Tourism, Health Care, Physiotherapy services, Psychological Guidance and Counselling, Gender sensitization, Women related issues, Folk Dance, Diaspora Studies are a few more innovative and research based subjects recently initiated by the University.

For inculcating and improving the research skills of students doing M.Phil in all the programmes, research schedule of three semesters has been designed as per the requirements of the respective disciplines. For Ph.D students, one semester course work has been introduced in all the programmes as per the UGC regulations. Students of UG and PG courses are given assignments and projects to initiate them into research and creativity. Audio-visual aids are used by them for effective presentation of their assignments. Special focus on practical aspect has also been laid to make students more adept in the latest professional skills and technologies.

1.1.4 **To what extent does the university use the guidelines of the regulatory bodies for developing and/or restructuring the curricula? Has the university been instrumental in leading any curricular reform which has created a national impact?**

The University follows the guidelines of the regulatory bodies to a great extent. The curriculum is broadly designed in accordance with the guidelines of the regulatory bodies like UGC, AICTE, NCTE, Bar Council of India, Pharmacy Council of India etc.. The contents of the curriculum are regularly updated keeping in view the syllabi of GATE, UGC-NET, PCS, UPSC and other competitive examinations.

To acquaint the students with important historical national movements, relevant topics are made a part of the syllabus in various subjects. Recently on the occasion of Ghadar Centenary, the literature of Ghadar

Movement has been introduced in the curriculum by the Department of Linguistics. Department of Theatre and Television of the University has incorporated in its syllabus many new components pertaining to socially and nationally relevant issues.

1.1.5 **Does the university interact with industry, research bodies and the civil society in the curriculum revision process? If so, how has the university benefitted through interactions with the stakeholders?**

Yes, many departments of the University e.g. Law Department, Department of Pharmaceutical Sciences and Drug Research, Hospitality and Tourism, Management Studies, Engineering, Bio-technology, Physiotherapy, Botany, Physics, Forensic Science, etc. interact with industry, research bodies and the civil society in the curriculum revision process. Their suggestions are incorporated in the curriculums which have made our students more employable. Physiotherapy Department runs OPDs for the general public. Their interactions with the patients give various inputs to make revisions and inclusions in the syllabus.

Placement Cell of the University often arranges interactions of the recruitment teams with the senior faculty of the concerned departments to discuss the inclusion of new components in the existing curriculum to better equip the students for jobs. As a result of the inputs from the industry, Department of Computer Science has introduced Courses on Life Skills and Communication Skills in MCA 2nd year and Business Intelligence in MCA 3rd year. The Course on Business Intelligence and some of the topics of current interest to industry have been incorporated in B.Tech. Curriculum.

As a part of the University's MoU with Infosys for their Campus Connect programme, our faculty members have attended Workshops on these as well as other programmes organized by Infosys from time to time which have resulted in enriching the curricula of Computer and Engineering programmes in various aspects. In order to bridge the gap between the industry and the University, Placement Cell regularly arranges Seminars/Workshops/Webinars by the experts from the industry which help the faculty members of the concerned departments become aware of the latest trends and requirements of the industry and make the relevant topics and training programmes a part of the curriculum.

1.1.6 **Give details of how the university facilitates the introduction of new programmes of studies in its affiliated colleges.**

Whenever any college affiliated to Punjabi University, Patiala applies for starting any new course/s, College Development Council of the University allows the college to start that course/s on the basis of the recommendations of the Report submitted by the Inspection Committee constituted for assessing the availability of the required infrastructure,

library, labs, faculty, staff and other facilities in the college for starting the new course/s. The University always encourages the colleges to start new courses and a favourable policy is framed for that. Many colleges affiliated to the University are even running some courses at UG and PG level which are not catered by the departments of the University e.g. B.Sc. (Agriculture), M.Sc. (Agriculture) and a few more.

1.1.7 **Does the university encourage its colleges to provide additional skill-oriented programmes relevant to regional needs? Cite instances (not applicable for unitary universities).**

Yes, the University does encourage its colleges to provide additional skill oriented programmes relevant to regional needs. In the four Colleges mentioned below, courses of Bachelor of Vocational (B.Voc.) have been introduced for the first time:

- Khalsa College, Patiala
- Guru Nanak College, Budhlada
- Amar Shaheed Baba Ajeet Singh Memorial College, Bela
- Mata Gujri College, Fatehgarh Sahib

To run these courses, proposals were sent to UGC by the University. After approving these proposals, grant of Rs.1,85,00,000/- (One crore eighty five lakh rupees) was given, and amount of 1,54,70,000/- (One crore, fifty four lakh,, and seventy thousand rupees) was approved under community college scheme for Khalsa College, Patiala. On the demand of many colleges and considering regional needs, many Skill Oriented Courses/Add on Courses like Fashion Designing, Cosmetology, Principles and Practice of Insurance, Seed Technology (Please refer to the list attached in section 1.2.1) have been introduced along with B.A./B.Com. and B.Sc. Courses, in order to enable the students to get employment. In some colleges, these courses are being provided on self-finance basis, while in others these courses are being run with the grants received from UGC.

1.2 ACADEMIC FLEXIBILITY

1.2.1 Furnish the inventory for the following:

- **Programmes taught on campus**

A) The list of the programmes taught on campus through regular mode is given below:

Courses at Punjabi University, Patiala Campus

i) Courses after B.A./B.Sc. /B.Com./B.B.A./B.C.A , Etc.

Courses	Years	Seats	Departments	Mode
B.Lib. & Inf. Sc.	1	33	Library & Information Science	Direct
L.L.B.	3	112	Law	State Level online counselling GNDU ASR
L.L.B. Evening	3	60	Law	State Level online counselling GNDU ASR
L.L.M. (Two Yrs)	2	30	Law	Entrance Test
LL.M. (One Year) Evening	1	30	Law	Entrance Test
LL.M. (One Year) Morning	1	30	Punjab School of Law	Entrance Test
M.A. Anthropological Linguistics & Punjabi Language	2	33	Linguistics and Punjabi Lexicography	Direct
M.A. Buddhist Studies	2	25	Religious Studies	Direct
M.A. Business Economics	2	25	Economics	Direct
M.A. Defence and Strategic Studies	2	33	Defence and Strategic Studies	Direct
M.A. Economics	2	55	Economics	Direct
M.A. Education	2	30	Education & Community Service	Direct
M.A. English	2	65	English	Direct
M.A. Fine Arts	2	21	Fine Arts	Direct
M.A. Gurmat Sangeet	2	15	Gurmat Sangeet	Direct
M.A. Hindi	2	70	Hindi	Direct
M.A. History	2	57	History	Direct
M.A. Indian Dances	2	25	Dance	Direct
M.A. Journalism and Mass Comm.	2	25	Journalism and Mass Communication	Direct

Courses	Years	Seats	Departments	Mode
M.A. Music-Instrumental	2	21	Music	Direct
M.A. Music-Vocal	2	21	Music	Direct
M.A. Persian	2	21	Persian, Urdu and Arabic	Direct
M.A. Philosophy	2	30	Philosophy	Direct
M.A. Political Science	2	49	Political Science	Direct
M.A. Public Administration	2	49	Public Administration	Direct
M.A. Punjabi	2	37	Punjabi	Direct
M.A. Punjabi (Hons.)	2	25	Punjabi	Direct
M.A. Religious Studies	2	25	Religious Studies	Direct
M.A. Sanskrit	2	37	Sanskrit and Pali	Direct
M.A. Sikh Studies	2	25	Religious Studies	Direct
M.A. Social Work	2	33	Social Work	Direct
M.A. Sociology & Social Anthropology	2	37	Sociology & Social Anthropology	Direct
M.A. Theatre & Television	2	33	Theatre and Television	Direct
M.A. TV & Film Production	2	20	Centre for Advanced Media Studies.	Direct
M.A. Urdu	2	21	Persian, Urdu & Arabic	Direct
M.A. Women Studies	2	25	Women's Studies Centre	Direct
M.A. Psychology	2	40	Psychology	Direct
Masters of Statistics	2	33	Statistics	Direct
M.B.A. (Dual Degree)	2	40	School of Management Studies	Direct
M.B.A. (International Business)	2	40	School of Management Studies	Direct
M.Com.	2	33	Commerce	Direct
M.Com. (Finance)	2	33	Commerce	Direct
M.Ed.	1	35	Education and Community Service	Entrance Test
M.Lib. & Inf. Sci.	1	21	Library and information science	Direct
M.P. Ed.	2	33	Physical Education	Direct
M.Pharm.	2	37	Pharmaceutical Science and Drug Research	Direct
M.Sc. Applied Mathematics and Computing	2	20	Mathematics	Direct
M.Sc. Applied Physics	2	50	Physics	Direct
M.Sc. Astronomy and Space Physics	2	25	Physics	Direct
M.Sc. Bio-Technology (Hon's)	2	22	Biotechnology	Entrance Test
M.Sc. Botany	2	30	Botany	Direct

Courses	Years	Seats	Departments	Mode
M.Sc. Chemistry (Physical, Organic and Inorganic)	2	55	Chemistry	Direct
M.Sc. Environmental Sciences	2	10	Zoology & Environmental Sciences	Direct
M.Sc. Forensic Science	2	21	Forensic Science	Direct
M.Sc. Geography	2	37	Geography	Direct
M.Sc. Human Genetics	2	30	Human Genetics	Direct
M.Sc. Mathematics	2	49	Mathematics	Direct
M.Sc. Microbial & Food Tech. (Hon's)	2	22	Biotechnology	Entrance Test
M.Sc. Physics	2	50	Physics	Direct
M.Sc. Physics (Nano Science & Technology)	2	25	Physics	Direct
M.Sc. Sport Science	2	21	Sports Science	Direct
M.Sc. Zoology	2	45	Zoology & Environmental Sciences	Direct
M.Tech. CE (Part Time)	3	60	Computer Engineering	Entrance Test
M.Tech. CE (Regular)	2	60	Computer Engineering	Entrance Test
M.Tech. CSE (Part Time)	3	50	Computer Science	Entrance Test
M.Tech. CSE (Regular)	2	45	Computer Science	Entrance Test
M.Tech. ECE (Part Time)	3	60	Electronics & Communication Engg.	Entrance Test
M.Tech. ECE (Regular)	2	60	Electronics & Communication Engg.	Entrance Test
M.Tech. ME (Part Time)	3	60	Mechanical Engineering	Entrance Test
M.Tech. ME (Regular)	2	60	Mechanical Engineering	Entrance Test
Master of Physiotherapy	2	25	Physiotherapy	Direct
MBA	2	220	School of Management Studies	Entrance Test
MCA	3	120	Computer Science	Entrance Test

ii) Courses after 10+2

Courses	Years	Seats	Departments
B.A. Hon's in Dance	3	25	Dance
B.A. Hon's in Gurmat Sangeet	3	25	Gurmat sangeet
B.A. Hon's in Journalism, Mass Communication & Media Technology	3	20	Centre for Advanced Media Studies

Courses	Years	Seats	Departments
B.A. Hon's School in Punjabi	3	25	Punjabi
B.A. Hons. Social Sciences	3	40	School of Social Sciences
B.Sc. Hons' in Mathematics	3	20	Mathematics
B.A. Hotel Management	3	60	Tourism, Hospitality and Hotel Management
B.A. Tourism and Travel Management	3	40	Tourism, Hospitality and Hotel Management
B.Sc. Mathematics and Computing	3	20	Mathematics
B.Sc. Computer Science, Statistics & Mathematics	3	33	Statistics
B.Tech. Course (CIVIL)	4	180	Civil Engineering, PUP
B.Tech. Course (CE)	4	180	Computer Engineering, PUP
B.Tech. Course (ECE)	4	180	Electronic Engineering, PUP
B.Tech. Course (ME)	4	180	Mechanical Engineering, PUP
B.A. Television, Film Production and Media Tech.	4	20	Centre for Advanced Media Studies
Bachelor of Pharmacy	4	60	Pharmaceutical Sci.& Drug Res.
Bachelor of Physiotherapy (B.P.T.4½ years)	4.5	25	Physiotherapy
B.A., LL.B.	5	60	Punjab School of Law
M.B.A. (Financial Markets/Applied Management) (Five years Integrated Course)	5	80	University School of Applied Management
M.Com. Hons' Five Year Integrated Programme	5	55	Commerce
M.Sc. Hon's in Botany (Five Years Integrated Course)	5	20	Botany
M.A. Hon's School in Economics (Five Years Integrated Course)	5	25	Economics
Six Year Integrated B.Tech-MBA Programme in ME	6	25	Mechanical Engineering, PUP
Six Year Integrated B.Tech-MBA Programme in Civil	6	25	Civil Engineering, PUP
Six Year Integrated B.Tech-MBA Programme in CSE	6	25	Computer Engineering, PUP
Six Year Integrated B.Tech-MBA Programme in ECE	6	25	Electronic Engineering, PUP

iii) Lateral Entry

Courses	Years	Seats	Departments
B. Tech. Lateral Entry for Diploma Holders at 2nd year of 4 years			
B.Tech. Course (CSE)	3	18	Computer Engineering, PUP
B.Tech. Course (ECE)		18	Electronic Engineering, PUP
B.Tech. Course (ME)		18	Mechanical Engineering, PUP
B.Tech. Course (CIVIL)		18	Civil Engineering, PUP
Five Year Integrated B.Tech-MBA Programme in ME (2nd year)	5		Mechanical Engineering, PUP
Five Year Integrated B.Tech-MBA Programme in Civil (2nd year)	5		Civil Engineering, PUP
Five Year Integrated B.Tech-MBA Programme in CSE (2nd year)	5		Computer Engineering, PUP
Five Year Integrated B.Tech-MBA Programme in ECE (2nd year)	5		Electronic Engineering, PUP

iv) Post-Graduate Diploma Courses

Courses	Years	Seats	Department
PG Diploma in Yoga	1	35	Physical Education
PG Diploma in Social Impact Assessment	1	15	Sociology and Social Anthropology
PG Diploma in Hindi Journalism	1	40	Hindi
PG Diploma in Computer Maintenance and Networking (PGDCM)	1	30	University Computer Centre
PG Diploma in Child Care and Skill Development.	1	10	Sports Sciences
PG Diploma in Child Care and Skill Development.	1	30	Women Studies
PG Diploma in Computer Applications (PGDCA)	1	50	University Computer Centre
PG Diploma in Gender Studies	1	30	Women's Studies Centre
PG Diploma in Internet and Web Designing (PGDIW)	1	30	University Computer Centre
PG Diploma in Women & Child Development	1	30	Women's Studies Centre
PG Diploma in Counselling Psychology	1	21	Psychology
PG Diploma in Health Fitness Trainer	1	15	Sports Science
PG Diploma in Sikh Theology	1	10	Sri Guru Granth Sahib Studies
PG Diploma in Space Science	1	25	Physics

Courses	Years	Seats	Departments
PG Diploma in Human Rights and Duties	1	30	Public Administration
PG Diploma in Folk Dances of Punjab	1	15	Dance
PG Diploma in Folk Music and Sufi Music	1	15	Music
PG Diploma in Hospitality & Hotel Administration	1	40	Tourism, hospitality and hotel management
PG Diploma in Translation	1	40	Hindi
PG Diploma in Diaspora Studies	1	20	Centre for Diaspora Studies

v) Diploma Courses

Courses	Years	Seats	Department
Advanced Diploma Course French	1	21	Foreign Languages
Advanced Diploma Course German	1	15	Foreign Languages
Diploma in Chinese	1	21	Foreign Languages
Diploma in French	1	33	Foreign Languages
Diploma in German	1	21	Foreign Languages
Diploma in Persian	1	21	Persian, Urdu and Arabic
Diploma in Punjabi as a Foreign/second language	1	20	Linguistics and Punjabi Lexicography
Diploma in Russian	1	21	Foreign Languages
Diploma in Urdu	1	21	Persian, Urdu and Arabic

vi) Certificate Course

Courses	Years	Seats	Departments	Mode
Add-on Certificate Course in Dharam Granth of World Religions			Religious Studies	Direct
Certificate Course in Sanskrit & Pali	1	37	Sanskrit and Pali	Direct
Certificate Course in Arabic	1	21	Persian, Urdu & Arabic	Direct
Certificate Course in Business Analytics	(6 Mon.)	60	School of Management Studies	Direct
Certificate Course in Chinese (1 year)	1	21	Foreign Languages	Direct
Certificate Course in French (1 year)	1	57	Foreign Languages	Direct
Certificate Course in German (1 year)	1	45	Foreign Languages	Direct
Certificate Course in Pali	1	15	Religious Studies	Direct
Certificate Course in Persian	1	57	Persian, Urdu & Arabic	Direct
Certificate Course in Russian (1 year)	1	33	Foreign Languages	Direct
Certificate Course in Spanish (1 year)	1	21	Foreign Languages	Direct

Courses	Years	Seats	Departments	Mode
Certificate Course in Sri Guru Granth Sahib	(3 Mon.)	37	Sri Guru Granth Sahib Studies	Direct
Certificate Course in Urdu (1 Year)	1	57	Persian,Urdu and Arabic	Direct
Certificate Course in Yoga (3 month)	(3 Mon.)	30	Physical Education	Direct
Certificate Course in Bakery and Cookery	(6 Mon.)	30	Tourism, Hospitality and Hotel Management	Direct
Certificate Course in Punjabi Computing (Evening)	(3 Mon.)	20	Punjabi Computer Help Centre	Direct

vii) Other Courses

Courses	Years	Seats	Department	Mode
Punjabi Praveshka (1 year)	1	55	Punjabi	Direct
Crash Course in Punjabi (3 months)	(3 Mon.)	20	Linguistics and Punjabi lexicography	Direct
Elementary Course in Punjabi (Six Months)	(6 Mon.)		Punjabi	Direct
Elementary Course in Punjabi (Six Months)	(6 Mon.)		Linguistics and Punjabi lexicography	Direct
Elementary Course in Hindi (Six Months)	(6 Mon.)		Punjabi	Direct

Courses at Punjabi University Neighbourhood Campuses and Regional Centres

	Courses	Years	Seats	Mode
(i)	*College of Engineering and Management Neighbourhood Campus, Rampura Phul*			
	B.Tech. Lateral Entry in 2nd year of 4 years Course against vacant seats in each branch of engg. and 10% additional seats.	3		Direct
	B.Tech. in Computer engineering	4	60	Direct
	B.Tech. in Electronics and Communication Engg.	4	60	Direct
	Diploma in Electronics and Communication Engineering (after metric)	3	18	Direct
	Diploma in Computer Engineering (after metric)	3	18	Direct
	Diploma in Mechanical Engineering (after metric)	3	18	Direct
	Lateral Entry in 2nd year of 3 Diploma years Course against vacant seats in each branch of engineering.	2		Direct
	MCA	3	30	Entrance Test
	MBA	2	60	Entrance Test

(ii)	Punjabi University Regional Centre of Post Graduate Studies, Bathinda			
	Courses	Years	Seats	Mode
	M.A. (Punjabi)	2	57	Direct
	M.A. (English)	2	57	Direct
	M.A. (Economics)	2	57	Direct
	i) Department of Law			
	L.L.B.	3	65	State Level Online Counselling, GNDU, ASR
	ii) Punjabi University Regional Centre of Education			
	B.Ed.	2	100	Entrance Test
	M.Ed.	2	50	Entrance Test
(iii)	Nawab Sher Mahommad Khan Institute of Advance Studies in Urdu, Persian and Arabic Malerkotla			
	M.A. (Persian)	2	21	Direct
	M. Sc (IT))	2	30	Direct
	M.Sc. IT (Lateral Entry)	1		Direct
	Certificate Courses in Urdu	1	57	Direct
	Certificate Courses in Arabic	1	21	Direct
	Certificate Courses in Persian	1	57	Direct
	PGDCA	1	35	Direct
	Certificate Course in Computer Applications		35	Direct
(iv)	Punjabi University Campus, Akali Phula Singh, Dehla Seehan (Sangrur)			
	BCA	3	45	Direct
	PGDCA	1	35	Direct
(v)	Punjabi University Campus, Maur (Bathinda)			
	MBA (Five year Integrated Course)	5	40	Direct
	MBA	2	60	Entrance Test
	MCA	3	60	Entrance Test
	M.Sc. IT (Lateral Entry)	1	40	Direct
	PGDCA	1	40	Direct
	BCA	3	60	Direct
	B. Com.	3	60	Direct
	B.A. (only for Girls)	3	60	Direct
(vi)	Punjabi University Neighbourhood Campus, Dera Baba Jogipir, Village Ralla (Mansa)			
	BCA (3 Years)	3		Direct
	B. Com	3		Direct
	MCA	3		Entrance Test
(vii)	Punjabi University Neighbourhood Campus, Jaito (Faridkot)			
	BCA	3		Direct
	PGDCA	1		Direct
	M.Sc. IT (Lateral Entry)	1		Direct
	MCA	3		Entrance Test
(viii)	Punjabi University Baba Dhyan Dass Neighbourhood Campus, Jhuneer (Mansa)			
	M.B.A.	2	40	Entrance Test
	PGDCA	1	30	Direct
	BCA	3	30	Direct
	B. Com	3	60	Direct

	Courses	Years	Seats	Mode
(ix)	***Punjabi University Guru Kashi College, Damdama Sahib***			
	M.Com. Hons' (Five Year Integrated Programme)	5	40	Direct
	Detail of other courses run by this College-contact Principal of College.			
(x)	***Yadavindra College of Engineering, Punjabi University, Guru Kashi Campus Talwandi Sabo***			
	B.Tech. Lateral Entry in 2nd year of 4 years Course against vacant seats and 10% additional seats in each branch of engineering.	3		Direct
	*B.Tech. (CSE)	4	60+80	*See Page No. 126
	*B.Tech. (ECE)	4	60+80	
	*B.Tech. (ME)	4	60+60	
	M. Tech. (CSE, ECE & ME) Regular (2 Years)	2	60	Direct
	M. Tech. (CSE, ECE & ME) Part- time (3 Years)	3	60	Direct
	MCA	3	60	Entrance Test
(xi)	***Punjabi University Regional Centre for Information Technology and Management, Mohali***			
	MBA	2	36	Entrance Test
	MCA	3	36	Entrance Test
	M.Tech. (CSE)	2	25	Entrance Test
(xii)	***Punjabi University School of Business Studies, Guru Kashi Campus, Talwandi Sabo***			
	MBA (5 year Integrated Programme)	5	40	Direct
	MBA (2 Year)	2	95	Entrance Test
	M.Com (2 Year)	2	30	Direct

B) The list of the programmes offered through Distance mode is given as under:

General Courses

Certificate*	Diploma*	Under Graduate	Post Graduate (2 years)
French (2 years)	Divinity (1 year)	B.A. (3 years)	M.A. Punjabi
German(2 years)	Gyani (1 year)		M.A. Hindi
Urdu (1 year)			M.A. English
Sanskrit (1 year)			M.A. History
			M.A. Economics
			M.A. Political Sciences
			M.A. Religious Studies
			M.A. Sikh Studies
			M.A. Women Studies
			M.A. Gurmat Sangeet (Tanti Saaj Vadan)
			M.A. Tabla
			M.A. Gurmat Sangeet (Gayan)
			M.A. Sociology
			M.A. Public Administration
			M. A. Education

*Indicates Minor Courses. A student can take up one Minor Course along with any Major Course. Pursuing two Major Courses, however, is not allowed. A student may take admission in a Minor Course independently.

Professional Courses

Praveshika* (1 year)	Certificate* (6 months)	Diploma* (1 year)	Under Graduate	Post Graduate	PG Diploma* (1 year)
Gurmat Sangeet Praveshika	CCA	Gurmat Sangeet	B.Com (3 years)	M.Sc (IT) (2 years)	Translation
Punjabi Praveshika	Sri Guru Granth Sahib	Library Science	BCA (3 years)	M.Sc. (IT) (1 year) Lateral Entry	Forensic Science
	Soft Skills and Personality Development		B.Lib. (one year)	M.Com (2 years)	Computer Application
	Spoken English		B.Ed. (2 years)	M.A. (JMC) (2years)	Journalism and Mass Communication
	Punjabi Gyan		BBA (3 years)	M.Ed. (2 years)	HIV/AIDS Counselling
				M.Lib (1 year)	

*Indicates Minor Courses. A student can take up one Minor Course along with any Major Course. Pursuing two Major Courses, however, is not allowed. A student may take admission in a Minor Course

▪ **Overseas programmes offered on campus**

The list of the overseas programmes offered on campus for international students is given below:

Faculty of Arts and Culture	**Faculty of Languages**
B.A. (Hons) in Dance (3 years), B.A. (Hons) in Gurmat Sangeet (3 years)	M.A. English (2 years), M.A. (2 years) Anthropological Linguistics and Punjabi Language, M.A. Persian (2 years) , M.A. Urdu (2 years), M.A. Punjabi (2 years), M.A. Punjabi (Hons.) (2 years), M.A. Sanskrit (2 years), M.A. Hindi (2 years)
Faculty of Business Studies	**Faculty of law**
B.Sc. Hospitality & Hotel Management, B.Sc. Airlines, Toursim and Hospitality, MBA (5 years) Integrated, M.Com (5 years) Integrated	LL.M. (1 year)

Faculty of Education & Information Science	Faculty of Life Sciences
B.Tech in TV Film Production & Media Technology (4 years), B.A (Hons.) Journalism, Mass Communication & Meida Technology (3 years), B.Lib & I.Sc (1 year)	M.Sc. Hon's (Biotechnology) (2 years). M.Sc. Hon's (Microbial & Food Tech.) (2 years), M.Sc. Botany (2 years), M.Sc. Human Genetics (2 years) M.Sc. Zoology (2 years), M.Sc. Environments Sciences (2 years)
Faculty of Engineering	**Faculty of Medicine**
B.Arch. (5 years), B.Tech. (ECE, ME, CE, Civil Eng.) 4 years	M.Pharm. (2years), Master of Physiotherapy (2 years), M.Sc. Sport Science (2 years)
Faculty of Law	**Faculty of Physical Sciences**
B.A.LLB. (5yrs. Law degree course), LL.B. (3years)	M.Sc. Chemistry (2 years), M.Tech (CSE-Computer Science and Engineering (2 years), M.C.A. (3 years), M.Sc. Forensic Science (2 years), M.Sc. Mathematics (2 years), M.Sc. Applied Mathematics & Computing (2 years), M.Sc. Physics (2 years), M.Sc. Applied Physics (2 years), M.Sc. Astronomy and Space Physics (2 years), M.Sc. Physics (Science & Tech.) (2 years), M.Sc. Statistics (2 years)
Faculty of Life Sciences	**Faculty of Social Sciences**
M.Sc. Hon's in Botany	M.A. Defence and Strategic Studies (2 years), M.A. Economics (2 years), M.A. (Business Economics) (2 years), M.Sc. Geography (2 years), M.A. History (2 years), M.A. Philosopohy (2 years), M.A. Poliltical Science (2 years), M.Sc. Psychology (2 years), M.A. Public Administration (2 years), M.A. Religious Studeis (2 years), M.A. Sikh Studies (2 years), M.A. Buddhist Studies (2 years), M.A. Social Work (years), M.A. Sociology and Social Anthropology (years), M.A. Women Studies (2 years)
Faculty of Medicine	**Faculty of Social Sciences**
B.Pharm. (4years), Bachelor of Physiotherapy (4 1/2 years)	M.Sc. (Hon's in Economics) (5 years Integrated) B.Sc. (Hons. in Economics) (3yrs), Bachelor in Social Sciences (3yrs)

Faculty of Physical Sciences B.Sc. Mathematics Computer Applications & Management, B.Sc. Computer Science, Statistics & Mathematics (3 years), B.A. (Hon's) in Mathematics (3 years)	**Faculty of Business Studies** M.Com. (2 years), M.Com. Finance (2 years), M.B.A. (5 years) (Integrated Financial Markets & Applied Management Programme), M.B.A. (2 years), M.B.A. Global Management (2 years)
Faculty of Languages B.A. (Hon's in Punjabi) 3 years	**Faculty of Engineering** M.Tech. (ECE, CE, ME)
AFTER GRADUATION **Faculty of Arts and Culture** M.A. Indian Dances (2 years), M.A. Fine Arts (2 years), M.A. Gurmat Sangeet (2 years), M.A. Music (2 years), M.A. Theatare & Television	**Faculty of Education & Information Science** M.A. Education (2 years), M.Ed. (1 year), M.A. Journalism & Mass Communication (2 years), M.A. (TV & Film Production (2 years), M.Lib & I.Sc. (1 years), M.P.Ed. (2 years)
SHORT TERM PROGRAMMES OFFERED TO INTERNATIONAL STUDENTS Diploma Post Graduate Diploma in Yoga Post Graduate Diploma in Teaching Proficiency Post Graduate Diploma in Social Impact Assessment (1 year) Post Graduate Diploma in Hindi Journalism (1 year)	**AFTER POST GRADUATION** The university offers doctoral programme in following faculties after post-graduation Faculty of Arts Culture Faculty of Business Studies Faculty of Education and Information Science Faculty of Engineering Faculty of Languages Faculty of Law Faculty of Life Sciences Faculty of Medicine Faculty of Physical Sciences Faculty of Social Sciences

GURMAT GYAN ONLINE TEACHING PROGRAMMES
for
National and International Students

1. Gurmat Gyan Elementary Course
2. Foundation Course in Gurmat Sangeet (Gayan-Vocal)
3. Foundation Course in Gurmat Sangeet (Vadan-Instrumental)
4. Foundation Course in Gurmat Sangeet (Jorhi/Tabla-Percussion)
5. Certificate Course in Gurmat Sangeet (Gayan-Vocal)
6. Certificate Course in Gurmat Sangeet (Vadan-Instrumental)
7. Certificate Course in Gurmat Sangeet (Jorhi/Tabla-Percussion)
8. Under Graduate Diploma in Gurmat Sangeet (Gayan-Vocal)
9. Under Graduate Diploma in Gurmat Sangeet (Vadan-Instrumental)
10. Under Graduate Diploma in Gurmat Sangeet (Jorhi/Tabla-Percussion)
11. Post Graduate Diploma in Gurmat Sangeet (Gayan-Vocal)
12. Post Graduate Diploma in Gurmat Sangeet (Vadan-Instrumental)
13. Post Graduate Diploma in Gurmat Sangeet (Jorhi/Tabla-Percussion)

- **Programmes available to colleges to choose from**

List of programmes running in affiliated colleges

- B.A.
- B.A. Honours (Political Science, Economics, Hindi, Sanskrit, English, Math, Punjabi, History, Psychology, Sociology, Religion, Urdu, Philosophy)
- Bachelor in Travel & Tourism, Bachelor of Journalism and Mass Communication.
- M.A. (Fine Arts, Music Vocal, Dance, English, Punjabi, Hindi, Economics, Public Administration, Psychology, Journalism and Mass Communication, History, Religion, Political. Science, Education, Urdu & Sikh Studies.)
- B.Com.
- B.Com. (Honours)
- B.Com. (Accounting & Finance)
- M.Com. (Integrated)
- B.Com-M.Com. (Integrated) 5 years
- B.B.A, B.C.A, BCA-MCA (Dual degree)
- B.Sc. Agriculture (4 Years), Biotech., Fashion Technology, Home Science, Mathematics and Computing, Computer Stat Math, Computer Maintenance, Industrial Microbiology, Hospitality and Hotel Management, Hotel Management, Airline Tourism Hospitality Management, Human Genetics, Tourism Management, B.Sc (Medical & Non-Medical), B.Sc (Medical & Non-Medical with Computer Application), B.Sc. (Agri Business Management), B.Sc. Honours School in Economics.
- Master of Leadership Development, M.Sc. (IT), M.Sc. (IT) Lateral Entry
- MBA, MCA
- M. Sc.(Math, Physics, Zoology, Botany, Chemistry, Geography, Pharmaceutical Chemistry, Agriculture, Biotechnology, Fashion Technology, Microbiology, Microbial & Food Technology, ATHM, Food & Nutrition & Service Industry Management), M.Sc. (Sports Coaching), M.Sc. (Food and Nutrition)
- PG Diploma in: (Computer Application, Dietics, Internet & Web Designing, Dress Designing & Tailoring, Insurance Business, Insurance and Banking, Diploma in Agricultural Marketing, Health Fitness Trainer, Cosmetology Retail Management), PG Diploma in Yoga, PG Diploma in Journalism and Mass Communication. PG Diploma Course in Business Journalism.
- B.Ed, B.Ed Special Education (MR), M.Ed, BP.Ed, MP.Ed, DP.Ed. and BPE (3 Years)
- Diploma in:(Business Process Outsourcing, Computer Hardware and Networking, Intensive Diploma in French, Diploma in Journalism & Mass Communication, Management, Journal Science & Social Science, Hospitality Course (Diploma in Food production & Diploma in Food & Beverage Services, Accommodation Operation, Bakery &

Confectionary), Diploma in Urdu, Diploma in Sanskrit, Diploma in Accommodation Operation, Diploma in French, Diploma in Spanish.

- B. Lib, D. Lib, M. Lib.
- L.L.B (3 years), L.L.B (5 years), LLM
- Giyani, Vidvani, Budhimani, Bhushan, Shashtri, Parbhakr, Vishard, Prajna.
- Certificate Course in (Yoga, Computer Application, Data Care Management Computer Application, Industrial Chemistry, Instrumentation)

Add-on Courses running in colleges affiliated to Punjabi University, Patiala.

- Agro Services
- Clinical Diagnostics Techniques
- Mass Communication
- Seed Technology
- Risk Management and Insurance
- Computerized Accounting
- Office Management and Secretarial Practice
- Travel and Tourism Management
- Instrumentation
- Fashion Designing
- Early Childhood Care and Education
- Spoken English for Communication Skills
- Tax Procedure and Practice
- Principles and Practice of Insurance
- Entrepreneurship and Small Business
- Communicative English
- Computer Application
- Interior Designing
- Library Science
- Carrier Guidance
- Environmental Education
- Data Care Management
- Cosmetology
- Tourism (Fork Art and Culture)
- Urdu Translation
- Urdu Journalism
- Fashion Designing Home Science
- Translation Proficiency (Hindi)
- Foreign Trade practice and procedures
- Advertising Sales Promotion and Sales Management
- Industrial Chemistry
- Fine Arts
- Information Technology
- Guidance and Counseling
- Insurance Business

- Functional English
- English Communication Skills
- Computer Application
- Certificate Course in Interior Decoration
- Certificate Course in Fine Arts
- Certificate Course in Music
- Insurance
- Music Instrumental
- Certificate Course in Management
- Certificate Course in Sports
- Pharmaceutical Chemistry
- Computer Hardware and Networking
- Event Management
- Foundation Course (3 months) Under the Scheme of Human Rights education on Human Rights and Duties of Under Graduate Level
- Computer Maintenance
- Yoga and Mental Health
- Music and Fine Arts
- Punjabi Journalism
- Web Designing
- Fitness Training
- T.V & Video Production
- Organic Farming
- Plant Biotechnology
- Food Science and quality Control
- House Keeping
- Rural Handicrafts
- Computer Training

Courses under B. Vocational Scheme
- Software Development
- Food Processing and Engineering
- Food Processing
- Retail Management and I.T.
- Fashion Technology.

Courses under Community Scheme
- Advanced Diploma in Auto Electrical and Electronics
- Advances Diploma in Green House Technology.

The list of the Programmes being offered at Constituent Colleges
B.A., B.Com, (Professional) BCA, BBA, B.Sc. (Non-Medical), B.Sc. (Medical) B.Sc. (Agriculture), B.Sc. (Computer Science) , B.Sc. (MCM), B.Sc (Human Development), PGDCA, PGDAMM, PGDDD&T, M.Com, (five year), M.Sc. (IT), MCA, M.A., (History), M.A. (Punjabi).

1.2.2   Give details on the following provisions with reference to academic flexibility.

- Core/Elective options
- Enrichment Courses
- Courses offered in modular form
- Credit accumulation and transfer facility
- Lateral and vertical mobility within and across programmes, courses and disciplines

  o Both Core/Elective options are the essential part of the curriculum. Some departments offer specializations in both the years whereas some offer these in the second year. The Core and the Elective subjects are also there in the scheme of B.Tech programmes.

  o Many Enrichment Courses are being offered by different departments of the University to enrich the knowledge and skills of students in other areas apart from their own disciplines. Soft Skills and Personality Development Course has been introduced for Engineering, M.B.A and Hotel Management students. Department of Distance Education offers various Certificate and Diploma Courses as Minor Courses which a student can pursue along with a Major Course   and independently also (Please refer to the list attached in Section 1.2.1). In the Department of Foreign Languages and the Department of Urdu and Persian Languages, Certificate and Diploma Courses in French and German Languages, and Urdu and Persian are run in the evening to enrich the knowledge of students about foreign and Indian languages respectively. Course on Business Analytics has been introduced as extra-disciplinary course as part of personal enrichment for MBA students. PGDCA Course is also being offered by Computer Department in the evening to improve the know-how of computers of the students and employees.

  o Many Six year and five year integrated courses mentioned below are being offered in modular form;

     (i)   Six year Integrated Programmes: B. Tech-MBA Programmes in ME, Civil, CSE and ECE.
     (ii)   Five year Integrated Programmes: B.A.,L.L.B., M.B.A. Applied, M.Com.Honours, M.Sc. Honours in Botany, M.A Honours School in Economics, B.Tech-M.B.A.in ME, Civil, CSE and ECE.

  o In majority of the UG and PG courses Credit equivalence and transfer facility exists. However, the candidates have to clear the deficient paper/s.

o Lateral and vertical mobility is allowed in some Departments. For example, after doing Diplomas, students can take admission in B.Tech second year (all the streams i.e. CSE,ECE, ME and Civil). After doing PGDCA, students can take admission in M.Sc (IT) II year in the Department of Distance Education. After doing M.A. I year through regular mode, a student can seek admission in the same subject in M.A. II year in the Department of Distance Education.

1.2.3 Does the university have an explicit policy and strategy for attracting international students?

Yes, the University has an explicit policy and strategy about it. Since the early 1980s, the University has been taking active initiatives to attract foreign students. Five percent seats in all the academic programmes have been kept reserved for foreign students. Since June 2013, the University has established a separate Directorate of International students to attract international students and meet their academic needs. The international students are attracted through embassies of different countries by providing them:

- Awareness about our programmes which have employability in their countries
- Comparatively low fee structure
- Good hostel facilities on minimum charges and
- Individual attention and counseling.

- Other strategies to attract them are:

  o to contact different embassies and provide them detailed information about fee and facilities
  o to interact with different universities of different countries
  o to have the Memorandum of Understanding (MoU) with them
  o to invite different functionaries of Universities of different Countries

In Department of Distance Education, students from any country can seek admission in all the courses mentioned in the list in Section 1.2. 1 except B.Ed. and M.Ed. These students are provided study material for the same and they can appear for the examination as per the rules laid down by the University for the Distance Education students.

1.2.4 Have any courses been developed targeting international students? If so, how successful have they been? If 'no', explain the impediments.

Yes. Course on 'Elementary Punjabi – I' has been designed for international students so that they are able to overcome the barriers of language while staying here. This course helps them to understand the common words used in daily routine Project /research based Courses

are being offered to the International Students on their demand in different programmes of the University.

Online Courses for Gurmat Sangeet Programme have been developed specially for the International students. (Please refer to the list included in Section 1.2.1)

1.2.5 **Does the University facilitate dual degree and twinning programmes? If yes, give details.**

Yes, the University offers some of such programmes mentioned below:

1. MBA dual degree programme offered by School of Management Studies.
2. Six Year Integrated B.Tech (ECE)-MBA Programme offered by Department of Electronics & Communication Engineering.
3. Six Year Integrated B.Tech (CSE)-MBA Programme offered by Department of of Computer Engineering.
4. Six Year Integrated B.Tech (CSE)-MBA Programme offered by Department of of Mechanical Engineering.
5. Six Year Integrated B.Tech (CSE)-MBA Programme offered by Department of of Civil Engineering.

1.2.6 **Does the university offer self-financing programmes? If yes, list them and indicate the policies regarding admission, fee structure, teacher qualification and salary are at par with the aided programmes?**

No, the University does not offer any self- financing course.

1.2.7 **Does the university provide the flexibility of bringing together the conventional face-to-face mode and the distance mode of education and allow students to choose and combine the courses they are interested in ? If yes, give operational details.**

Yes, the University allows the students to shift over from conventional face–to-face mode to distance education mode in case of only those M.A. Courses which are offered by the Department of Distance Education, Punjabi University, Patiala. It is subject to the fulfilment of the condition that if there is any deficient paper/s, the student has to clear that paper /s. The courses are :

M.A. in Punjabi, English, Hindi, History, Economics, Political Science, Religious Studies, Sikh Studies, Women Studies, Sociology, Public Administration, Education, Journalism and Mass Communication, Tabla, Gayan, Tanti Saaj Vaadan, M.Sc. (Information Tech.), M.Com. Similarly, such flexibility is there in B.A., B.Com., B.B.A., Bachelors of Computer Science Courses also. However, the students having opted the practical subjects except Psychology and Philosophy in B.A. I and

II cannot take admission in distance education B.A. Programme.

A student pursuing any Degree/Major Course through regular / distance education mode can also enrol himself/herself in any of the minor courses (Certificate, Diploma and PG Diploma courses) offered by Department of Distance Education simultaneously. The list of the courses is as follows :

- **Certificate Courses** in French, German, Computer Applications, Spoken English, Soft Skills and Personality Development, Sri Guru Granth Sahib, Sanskrit, Urdu, Punjabi Gyan,

- **Diploma Courses** in Library Science, Gurmat Sangeet, Divinity (Sri Guru Granth Sahib), Gurmat Sangeet Praveshika, Punjabi Praveshika, Gyani.

- **Post Graduate Diploma Courses** in Translation, Forensic Science, Computer Applications, Journalism & Mass Communication, HIV/AIDS Counseling.

- Master of Business Administration, Two Years Programme offered through Correspondence Course allows admission in M.B.A. Part II to any person who has passed M.B.A. Part I examination or has cleared at least 50% of total papers prescribed for the first and second semesters of M.B.A. Course of Punjabi University, Patiala. These candidates have to qualify all the papers of M.B.A. Course within a period of two years from the date of joining the Course.

1.2.8 **Has the university adopted the Choice Based Credit System (CBCS)? If yes, for how many programmes? What efforts have been made by the university to encourage the introduction of CBCS in its affiliated colleges?**

The University has adopted CBCS in many of the departments' w.e.f. session 2015-16. All M.Phil and Ph.D programmes are Credit based (But not choice based). Credit system was introduced in B.Tech programme in 2007. Grading system was adopted in all the Master Level programmes in the University and its affiliated colleges from the session 2014-15.

Efforts are being made by the University to encourage all the remaining departments and affiliated colleges to implement CBCS. For this a Workshop was also conducted in Government Mahindra College, Patiala.

1.2.9   What percentage of programmes offered by the University follow:

Annual System was followed approx. in 60 percent of the programmes up to the session 2013-2014 and semester system was followed in the rest of the programmes.

With effect from the session 2014-2015 all programmes have been following semester system.

In all the courses being offered through Department of Distance Education, semester system has been adopted from the session 2015-2016.

1.2.10   How does the university promote inter-disciplinary programmes? Name a few programmes and comment on their outcome.

The University promotes many inter-disciplinary programmes. All the Engineering courses promote interdisciplinary programmes as the curricula of these programmes include various common courses/ papers/subjects such as Mechatronics, Measurement Science & Techniques, Numerical Methods, Computer Networks, Digital Electronics, Visual Basic, etc.

In the Department of Physiotherapy, curriculum for the Bachelor and Master Degree Programme constitutes various subjects like Physiology, Anatomy, Biochemistry, Pharmacology, Computer Applications and Exercise Physiology.

The University has introduced B.A. Social Sciences in the School of Social Sciences. Under this Course, English, Punjabi, History, Economics, Public Administration and Sociology are being taught. In B.Sc. Honours School in Economics, CSM and B.A. Honours School in Punjabi and a few others, many interdisciplinary subjects are taught.

PG Diploma in Social Impact Assessment started from the session 2013-14 is an interdisciplinary programme. PG Diploma in Diaspora Studies started from the session 2015-16 is also an interdisciplinary programme comprising diasporic issues related with Literature, Culture, Film Studies, Sociology, Political science, Economics, Media, ICT, etc.

A few courses offered by the Department of Distance Education like M.A. Women Studies, M.A. Sikh Studies, and Certificate Course in Soft Skills and Personality Development comprise the topics pertaining to various disciplines.

These interdisciplinary programmes give the students exposure to multiple disciplines, widen their intellectual horizons and promote their holistic development.

1.3   CURRICULUM ENRICHMENT

1.3.1   How often is the curriculum of the university reviewed and upgraded for making it socially relevant and/or job oriented/ knowledge intensive and meeting the emerging needs of students and other stakeholders?

Curriculum of the University is reviewed and upgraded once every year and new courses and topics are included for making it socially relevant, job oriented, knowledge intensive and for meeting the emerging needs of students and other stakeholders. For example, Environment and Road Safety Awareness has been introduced as a compulsory subject at UG level. Computer Application has also been introduced as elective subject at UG level so that students can get well - versed with the technology in the modern times. Many new job oriented courses like B.Sc.Computer Science, Statistics and Mathematics, B.Sc. Mathematics and Computing, 6 yr integrated B.Tech. + MBA, B.A. Television, Film Production and Media Technology, B.A.Hons. in Social Sciences, B.Sc. Hons. in Mathematics, B.A. Hotel Management, B.A.Tourism and Travel Management have also been introduced which a student can join after 10+2.

1.3.2   During the last four years, how many new programmes at U.G. and P.G level were introduced? Give details.

*Inter-disciplinary:

The University has introduced B.A. Social Sciences in the School of Social Sciences. Under this Course, English, Punjabi, History, Economics, Public Administration and Sociology are being taught.

Many new job oriented courses like B.Sc. Honours in Mathematics, Six year integrated B.Tech + MBA, B.A. Television, Film Production and Media Technology have also been introduced. In Computer Science Department M.Tech. (Part Time) has been introduced in Computer Science and Engineering. In Engineering Departments, M.Tech. (Part Time) has been introduced in three branches so that working persons also can continue their studies.

*Programmes in emerging areas:

The University has started 86 new Courses in emerging areas in different departments. The list is given as under:

Sr. No.	Name of the Department	Date of Approval from Planning & Monitoring Board	Name of the Course
1.	Establishment of Guru Kashi International Centre for Sikh Studies	07-03-2009	One Month, Three Month and Six Month Short Term/Crash Courses and One Year Diploma w.e.f. session 2009.
2.	Establishment of Punjabi University Neighbourhood Campus, Jaito	07-03-2009	BCA (3 Year Course) in place of One Year Diploma in Computer Application from 2008-09.
3.	University College of Engineering	07-03-2009	M.Tech Computer Engineering, M.Tech. Electronics and Communication Engineering and M.Tech. (Mechanical Engg.) full time courses from Academic Session 2009-10.
4.	Department of Journalism and Mass Communication	07-03-2009	B.Tech, T.V. & Film Production course from Academic Session 2009-10
5.	Department of Forensic Science	07-03-2009	Six Month Certificate Course in Fingerprint Technologies from Academic Session 2009-10
6.	Punjabi University Regional Centre for Information Technology and Management, Mohali	08-06-2010	M.Tech. (Computer Science and Engineering) from Academic Session 2010-11
7.	Department of Hindi	08-06-2010	P.G. Diploma in Hindi Journalism from Academic Session 2010-11
8.	Centre for Advanced Media Studies	08-06-2010	Video-graphy and Video-editing Certificate Course from Academic Session 2010-11
9.	Department of Physics	08-06-2010	M.Sc. (Nanotechnology) from Academic Session 2010-11
10.	Department of Commerce	08-06-2010	M.Com. Hon's Integrated Five Year Course from Academic Session 2010-11
11.	Department of Mathematics	08-06-2010	M.Sc. Applied Mathematics and Computing and B.Sc. (Mathematics, Computer and Management) from Academic Session 2010-11
12.	Department of Journalism and Mass Communication	08-06-2010	P.G. Diploma in Broadcast Journalism from Academic Session 2010-11
13.	University College of Engineering	08-06-2010	Engineering Management Integrated Program Course (This course started in Academic Session 2009-10)

Sr. No.	Name of the Department	Date of Approval from Planning & Monitoring Board	Name of the Course
14.	Women's Studies Centre	08-06-2010	Post Graduate Diploma in Gender Studies and Post Graduate Diploma in Women and Child Development Course from Academic Session 2010-11
15.	Department of Distance Education	08-06-2010	Certificate Course in Soft Skills and Personality Development from Academic Session 2010-11
16.	Department of Sri Guru Granth Sahib Studies	08-06-2010	Certificate Course in Sri Guru Granth Sahib from Academic Session 2010-11
17.	Punjabi University Guru Kashi College, Damdama Sahib	08-06-2010	M.Sc. (I.T.) from Academic Session 2010-11
18.	University College of Business Studies, Talwandi Sabo	08-06-2010	M.B.A. (Two Year) course from Academic Session 2010-11
19.	Punjabi University Baba Jogi Peer Neighbourhood Campus, Ralla	08-06-2010	M.C.A. course from Academic Session 2010-11
20.	Establishment of School of Applied Management Department	19-04-2011	MBA (Financial Markets) Five year Integrated course MBA (Appled Management) Five year Integrated course
21.	Punjabi University Neighbourhood Campus, Rampura Phul	19-04-2011	Post Graduate Diploma in Agriculture Marketing Course from Academic Session 2011-12
22.	University Computer Centre	19-04-2011	PG Diploma in Computer Maintenance & Networking and PG Diploma in Internet and Web-Designing from Academic Session 2011-12
23.	Nawab Sher Mohammad Khan Institute of Advanced Studies in Urdu, Persian and Arabic, Malerkotla	19-04-2011	M.Sc. (IT) from Academic Session 2011-12
24.	Department of Computer Science	19-04-2011	M.Tech Computer Science and Engineering Part Time and M.Phil in Computer Sciences from Academic Session 2011-12
25.	Punjabi University Neighbourhood Campus, Karandi	19-04-2011	M.Sc. (IT) from Academic Session 2011-12
26.	Punjabi University Neighbourhood Campus, Jaito	19-04-2011	M.Sc. (IT) Lateral Entry Course from Academic Session 2011-12
27.	Department of Sri Guru Granth Sahib Studies	19-04-2011	One Year Post Graduate Diploma in Sikh Theology from Academic Session 2011-12
28.	Department of Tourism Hospitality and Hotel Management	19-04-2011	B.Sc. Tourism Management (Semester System) Three Year Course from Academic Session 2011-12

Sr. No.	Name of the Department	Date of Approval from Planning & Monitoring Board	Name of the Course
29.	Centre for Advanced Media Studies	19-04-2011	B.A. Hon's in Journalism Mass Communication and Media Technology Course from Academic Session 2011-12
30.	Department of Forensic Science	19-04-2011	M.Phil. Course from Academic Session 2011-12
31.	Baba Dhyan Dass Neighbourhood Campus, Jhunir	19-04-2011	Six Month Certificate Course in Fashion Designing from Academic Session 2010-11 and MBA Two Year and M.Sc. Lateral Entry (Computer Science) course from Academic Session 2011-12
32.	Establishment of School of Social Science Department	14-05-2012	Bachelor of Social Sciences (Hon's School) Course from Academic Session 2012-13
33.	Punjabi University T.P.D. Malwa College, Rampura Phul Mehraj	14-05-2012	B.Sc. (Mathematics, Computer), M.A. (History), M.A. (Punjabi), B.P.Ed. (One Year Course) and MCA Course from Academic Session 2012-13
34.	Punjabi University Neighbourhood Campus, Karandi	14-05-2012	B.Sc. (Computer, Statistics and Mathematics) from Academic Session 2012-13
35.	Punjabi University Guru Kashi College, Damdama Sahib	14-05-2012	Five Year M.Com. (Hons School-FYIC),B.Sc. Agriculture (4 Years), M.A. Punjabi Course and B.Sc. Agriculture (4 Years) from Academic Session 2012-13
36.	Punjabi University Neighbourhood Campus, Jaito	14-05-2012	MCA Course from Academic Session 2012-13
37.	Punjabi University Baba Dhyan Dass Neighbourhood Campus, Jhunir	14-05-2012	BCA Course from Academic Session 2012-13
38.	Punjabi University Akali Phoola Singh Neighbourhood Campus, Dehla Seehan	14-05-2012	MCA Course from Academic Session 2012-13
39.	Department of Distance Education	14-05-2012	M.A. (Public Administration) from Academic Session 2012-13
40.	Department Sociology and Social Anthropology	14-05-2012	PG Diploma in Social Impact Assessment (One Year) from Academic Session 2012-13
41.	Women's Studies Centre	14-05-2012	M.A. Women Studies Course from Academic Session 2012-13
42.	Department of Physical Education	14-05-2012	M.Phil Course from Academic Session 2012-13
43.	Centre for Advanced Media Studies	14-05-2012	Advanced Diploma in Multimedia Application from Academic Session 2012-13
44.	Department of Botany	14-05-2012	M.Sc. Hon's in Botany (Five Year Integrated Course) from Academic Session 2012-13

Sr. No.	Name of the Department	Date of Approval from Planning & Monitoring Board	Name of the Course
45.	Department of Biotechnology	14-05-2012	M.Sc. (Biotechnology) and M.Sc. (Microbiological and Food Technology) upgraded as M.Sc. Hon's from Academic Session 2012-13
46.	Yadavindra College of Engineering, Talwandi Sabo	14-05-2012	B.Tech (Civil Engineering) and B.Tech. (Petro Chemical Engg.) from Academic Session 2012-13
47.	Punjabi University Campus, Mour	14-05-2012	B.Com (Professional Course) from Academic Session 2012-13
48.	University College, Moonak	14-05-2012	BBA Professional Course from Academic Session 2012-13
49.	Department of Distance Education	14-05-2012	From Acad. Session 2011-12: 1. M.A. (Sociology) 2. Certificate Course in Sanskrit from Academic Session 2012-13.
50.	Department of Sri Guru Granth Sahib Studies	14-05-2012	Certificate Course in Sri Guru Granth Sahib
51.	University College of Engineering	14-05-2012	B.Tech. (Civil Engineering) from Academic Session 2012-13
52.	Department of Zoology and Environmental Sciences	14-05-2012	M.Sc. Environmental Sciences from Academic Session 2011-12
53.	Women's Studies Centre	14-05-2012	Post Graduate Diploma in Child Care and Skill Development
54.	Department of Sports Science	14-05-2012	PG Diploma for Health Fitness Trainer
55.	Establishment of Centre for North American Studies and Centre for Advanced Studies and Research in Indian Diaspora with Special Focus on Punjab Centre	14-05-2012	
56.	Punjabi University T.P.D. Malwa College, Rampura Phul Mehraj	25-04-2013	B.Sc. (Non-Medical) from Academic Session 2013-14
57.	Department of Education and Community Services	25-04-2013	From Academic Session 2013-2014: 1. Post Graduate Certificate Course in Teaching Proficiency 2. Post Graduate Diploma in Higher Education for Foreign Students (Online mode)
58.	Centre for Advanced Media Studies	25-04-2013	from Academic Session 2013-14 Post Graduate Diploma in Graphics, Animation and Special Effects (1 Year Course)
59.	Guru Gobind Singh Department of Religious Studies	25-04-2013	Dharam Granth of World Religions Add-on Certificate Course from Academic Session 2013-14
60.	Department of Computer Science	25-04-2013	M.Tech. (ICT) Course closed and Start of M.Tech (CSE) from Academic Session 2013-14

Sr. No.	Name of the Department	Date of Approval from Planning & Monitoring Board	Name of the Course
61.	Department of Tourism, Hospitality and Hotel Management	25-04-2013	B.Sc. Air lines, Tourism and Hospitality from Academic Session 2013-14
62.	Establishment of Department of Architecture	25-04-2013	Bachelor of Architecture (B.Arch) from Academic Session 2013-14
63	Department of Economics	22-04-2014	M.Sc. Hon's School in Economics (5 Year Integrated Course) from Academic Session 2014-15
64.	Department of Tourism, Hospitality and Hotel Management	22-04-2014	Post Graduate Diploma in Hospitality & Hotel Administration (Duration One Year) Two Semesters and Certificate Course in Bakery and Cookery Short term evening course (Six Month) from Academic Session 2014-15
65.	Centre for Advanced Media Studies	22-04-2014	From Academic Session 2014-15: 1. Certificate Course in Videography 2. Certificate Course in Video Editing 3. Certificate Course in Film Acting Evening (Three Month Certificate Courses)
66.	1.Department of Anthropological Linguistics and Punjabi Lexicography 2.Department of Hindi 3.Department of Punjabi	22-04-2014	For Foreign Students: Elementary Course in Hindi and Elementary Course in Punjabi, Six Month regular course in Hindi and Punjabi and Diploma Course in Punjabi for One Year (Semester System),In Deptt. of Anthropological Linguistics and Punjabi Lexicography Crash Course two times in a year from Academic Session 2014-15
67.	Centre for Advanced Media Studies	22-04-2014	M.A. (T.V. & Film Production) from Academic Session 2014-15
68.	Punjab School of Law	22-04-2014	LL.M. Course One Year from Academic Session2014-15
69.	Department of Dance	22-04-2014	P.G. Diploma in Punjab Lok Nrit from Academic Session 2014-15
70.	Department of Music	22-04-2014	P.G. Diploma in Punjabi Folk Music and Sufi Music Course from Academic Session 2014-15

Sr. No.	Name of the Department	Date of Approval from Planning & Monitoring Board	Name of the Course
72.	School of Management Studies	22-04-2014	Six Month Certificate Course in Business Analystics from Academic Session 2014-15
73.	College of Engineering, Rampura Phul	22-04-2014	From Academic Session 2014-15: 1.Diploma in Electronics and Communication Engineering 2.Diploma in Computer Engg. 3. Diploma in Mechanical Engg.
74.	Punjabi Uni. Neighbourhood Campus,Jogi Peer Ralla	22-04-2014	B.Com. course from Academic Session 2014-15
75.	Department of Law	22-04-2014	LL.M. One Year Course in Evening Shift from Academic Session 2014-15
76.	Department of Mathematics	22-04-2014	B.Sc. Hon's School in Mathematics
77.	Centre for Advanced Media Studies	26-05-2014	Five Year Film Production Media Studies and Management Course and the name of this course will be B.Tech/M.B.A, Five Year Integrated Course in T.V. & Film Production from Academic Session 2014-15
78.	Punjabi University Neighbour-hood Campus, Jhunir	22-04-2014	B.Com. course from Academic Session 2014-15
79.	Punjabi University Campus Engineering Wing	29-04-2015	Six Year Integrated Engg. Management Programme (Computer Engg., Electronics & Communication Engineering, Mechanical Engineering and Civil Engineering).
80.	University School of Business Studies, Guru Kashi Campus, Talwandi	29-04-2015	M.Com. course with 30 students from Academic Session 2015-16
81.	South West Asia Study Centre (Pakistan-Afganistan)	29-04-2015	M.Phil with 5 students from Academic Session2015-16
82.	Punjabi Computer Help Centre	29-04-2015	Three Month Computer Course in Punjabi Computing (Evening Shift with 20 students) from Academic Session 2015-16
83.	Punjabi University and its affiliated colleges	29-04-2015	B.Ed. (Two Year) course from Academic Session 2015-16 (The term of B.Ed. one year is now B.Ed. Two Year)

Sr. No.	Name of the Department	Date of Approval from Planning & Monitoring Board	Name of the Course
84.	Punjabi University and its affiliated colleges	29-04-2015	MCA Five Year Integrated Courses name change as per UGC Gazette Notification, now this course nomenclature is MCA (Six Year Integrated Course) and this courses term is Six Years)
85.	UGC Centre for Diaspora Studies	29-04-2015	P.G. Diploma in Diaspora Studies from Academic Session 2015-16
86.	S. Balraj Singh Bhunder Memorial University College, Sardulgarh	29-04-2015	B.Com Course in the place of B.Com (Professional) from Academic Session 2015-16

1.3.3   What are the strategies adopted for the revision of the existing programmes? What percentage of courses underwent a syllabus revision?

Curricula of existing programmes are revised in accordance with the guidelines of UGC, NCTE, AICTE, Bar Council of India, Pharmacy Council of India etc. in the meetings of ACDs of respective departments, Boards of Studies, Faculties and Academic Council. All the courses underwent syllabus revision. While designing/ revising programmes, the syllabi of the competitive examinations, feed back of the society, employers and other stake holders are also taken into consideration.

1.3.4   What are the value- added courses offered by the university and how does the university ensure that all students have access to them?

Many value added Certificate and Diploma courses are offered by many departments of the University as minor courses which the students can pursue along with the Major Course. Evening classes are held for most of these courses. Some of these courses are;

1. Foreign Languages—French and German
2. Urdu and Persian
3. Soft Skills and Personality Development Programme
4. Communication Skills
5. Punjabi Learning
6. Environment Science and Road Safety
7. PGDCA

Department of Distance Education of the University also offers many professional/ job oriented and value-added courses which a candidate can pursue through distant mode.(Please refer to Section 1.2.1).

1.3.5 **Has the university introduced any higher order skill development programmes in consonance with the national requirements as outlined by the National Skills Development Corporation and other agencies?**

The University has applied to the UGC for B.Voc. Programmes. The Department of Tourism, Hospitality and Hotel Management has applied to Ministry of Tourism for 'Hunar se Rozgar' programme.

In four of the affiliated colleges B.Voc. courses has been introduced.

1.4 **FEEDBACK SYSTEM**

1.4.1 **Does the University have a formal mechanism to obtain feedback from students regarding the curriculum and how is it made use of?**

Yes, the University has a formal mechanism to obtain feedback from the students regarding the curriculum. As per the guidelines of UGC, to obtain feedback from the students, a Proforma has been designed by IQAC and circulated among all the teaching departments (Please refer to Section 6.2.7 in Criterion:6). The suggestions given by the students are discussed in the departmental meetings for further improvements.

Placement Cell of the University takes feedback/suggestions from the students after their interaction with the recruitment teams regarding the various components of the curriculum. The additions/improvements suggested by them are shared with the concerned departments which are eventually incorporated in the curriculum to make it more enriched.

1.4.2 **Does the university elicit feedback on the curriculum from national and international faculty? If yes, specify a few methods such as conducting webinars, workshops, online discussions, etc. and its impact.**

The revision of curriculum is done through the statutory bodies of the University and eminent academicians from various institutions of national repute are members of these bodies who discuss and suggest the enrichment of the curriculum during the meetings. Their suggestions are incorporated in the curriculum. Workshops, webinars and online discussions are also conducted by a few departments and Placement Cell of the University involving national and international faculty to provide feedback about the curriculum of different courses being offered and their valuable inputs are made a part of the curricula. Presentations made and discussions held during national and international conferences, Workshops, special lectures and talks also provide guidelines to regularly update the syllabi in all the programmes as per the current regional, national and international requirements. These methods do help the University in offering content enriched syllabi which makes our students highly employable.

1.4.3 **Specify the mechanism through which affiliated institutions give feedback on curriculum enrichment and the extent to which it is made use of.**

The College Development Council of the University organizes meetings of Principals of Colleges from time to time to discuss the issues of syllabus update. To get feedback on certain issues, Principals are invited to participate in the Conferences so that they can be provided the latest information regarding the policies framed by the University and share their feedback with the University authorities and fellow Principals. College Principals by rotation are also the members of Academic Council. Moreover, faculty members from different colleges by rotation are also the members of respective Boards of Studies and Faculties. Their feedback pertaining to ongoing curriculum and their suggestions for improvements are thoroughly discussed and incorporated to enrich the curriculum.

1.4.4 **What are the quality sustenance and quality enhancement measures undertaken by the University in ensuring the effective development of the curricula?**

The University has undertaken many 'quality sustenance and quality enhancement' measures to ensure 'the effective development of the curricula.'

From time to time, Workshops are organised which involve the faculty and students from different departments, colleges, universities and other areas to discuss various components of the syllabi of different programmes, and recent trends in research to enrich the quality of the curricula. Many new need based interdisciplinary courses have been designed by different departments as per the requirements of the job market.

Workshops and training programmes are also organised by different departments and HRD Centre aiming at quality enhancement of the faculty members in various fields like use of computer software, working on computer in regional language, statistical techniques, development of e-content, environment management, gender sensitization, personality development etc. These help them contribute to the sustenance and enhancement of the quality of the curriculum in different subjects.

Senior faculty members of all the departments are members of BoS, Faculties, Academic Council and many other bodies of other Universities also. Their experiences and interactions during the meetings of these bodies also contribute to the effective development and quality enhancement of the curriculum of their respective disciplines offered by the University.

Any other information regarding Curricular Aspects which the university would like to include.

Baba Farid Centre for Sufi Studies,Centre for Diaspora Studies, World Punjabi Centre, Centre for Teaching of Punjabi as a Foreign Language (CTPFL) and an Advanced Centre for Technical Development of Punjabi Language, Literature and Culture (ACTDPLLC) have been established for the promotion and propagation of the Punjabi Language, Literature and Punjabi studies.

The University has always aimed at designing and developing best curricula in all the academic programmes as per the latest academic requirements and trends, keeping in view the contents of syllabi offered by other Universities also.

CRITERION II
TEACHING-LEARNING AND EVALUATION

Criterion-II
Teaching -Learning and Evaluation

2.1   S<small>TUDENT</small> E<small>NROLMENT AND</small> P<small>ROFILE</small>

2.1.1   **How does the university ensure publicity and transparency in the admission process?**

The admission schedule is published in the National and State newspapers well in time. Handbook of Information containing the required information regarding eligibility, reservation of seats, procedure of admission, time and date, formula for the calculation of merit and required forms and documents for admission used to be made available at the University Sales centre. This information was also uploaded on the University website. From the last two academic sessions Handbook of Information is uploaded only on University website www.punjabiuniversity.ac.in in the link of admission cell. Candidates can apply for admission online only.

An interview/Admission committee is constituted in each department which looks after the whole process of selection of candidates for admission. The list of selected candidates and waiting list along with their merit is displayed on the notice board in the office of all the departments as well as on the University website.

2.1.2   **Explain in detail the process of admission put in place by the university. List the criteria for admission : (e.g.: (i) merit (ii) merit with entrance test, (iii) merit, entrance test and interview, (iv) common entrance test conducted by state agencies and national agencies (v) other criteria followed by the university (please specify).**

The students are admitted to various courses on the basis of entrance test, performance test, academic record and in some cases combination of these as stated below:

Faculty	Department	Entrance test	Academic Record	Performance test
Arts And Culture	Dance, Fine Arts, Gurmat Sangeet, Music, Theatre & Television	No	Yes	Yes
Business Studies	Commerce, School of Applied Management, School of Management Studies	Yes	Yes	No

Faculty	Department	Entrance test	Academic Record	Performance test
Education And Information Science	Centre For Advanced Media Studies (CAMS), Education & Community Service, Journalism And Mass Communications, Library & Information Science, Physical Education	Yes	Yes	Yes
Engineering	Computer Engineering Department, Civil Engineering Department, Electronics And Communication Engineering Department, Mechanical Engineering Department	Yes	Yes	Yes
Languages	English, Foreign Languages, Hindi, Linguistics & Punjabi Lexicography, Persian, Urdu & Arabic, Punjabi, Sanskrit & Pali	No	Yes	No
Law	Law, Punjab School of Law	Yes	No	No
Life Sciences	Biotechnology	Yes	Yes	No
	Botany, Human Genetics, Zoology And Environmental Sciences	No	Yes	No
Medicine	Pharmaceutical Sciences & Drug Research, Physiotherapy, Sports Science	Yes	No	No
Physical Sciences	Chemistry, Computer Science, Forensic Science, Mathematics, Physics, Statistics	No	Yes	No
Social Sciences	Defence & Strategic Studies, Economics, Geography, History,, Philosophy, Political Science, Psychology, Public Administration, Religious Studies, Social Work, Sociology & Social Anthropology	No	Yes	No

2.1.3 **Details of admission process in the affiliated colleges and university's role in monitoring the same.**

Admission is done by the affiliated colleges independently. However, the University monitors the admission process of these colleges at following levels:
- The University decides the number of seats for each course in view of the infrastructure, faculty and other resources of these colleges.
- The University decides the eligibility criterion of each course of these colleges.
- Reservation policy and general guidelines for admission (dates of admissions etc) are given to the affiliated colleges by the University.
- The University notifies the list of fake universities whose degree holders are not allowed to get admission.

2.1.4 **Does the university have a mechanism to review its admission process and student profile annually? If yes, what is the outcome of such an analysis and how has it contributed to the improvement of the process?**

Yes, the University has a mechanism to review its admission process and student profile. Based on the review process, the seats in the particular course are revised (e.g. seats in Engg. departments are increased as per the demand). To improve the process, centralised admission cell has been created and admission has been made online. The candidates need not come personally nor have they to apply on paper. The applications are submitted online, hence saving time and money. In the Centralised Cell required data of admitted students is readily available which are being shared by Library, Security Officer, Dean Students, Health Centre, Computer Centre, Accounts, Examinations Branch and Statiscal Officer.

2.1.5 **What are the strategies adopted to increase / improve access for students belonging to the following categories:**

- SC/ST
- OBC
- Women
- Persons with varied disabilities
- Economically weaker sections
- Outstanding achievers in sports and other extracurricular activities

Many strategies are adopted in this regard such as :
- The University follows the criterion laid down by the State government for the reservation to the above mentioned categories as detailed below:

Seat Distribution Criterion
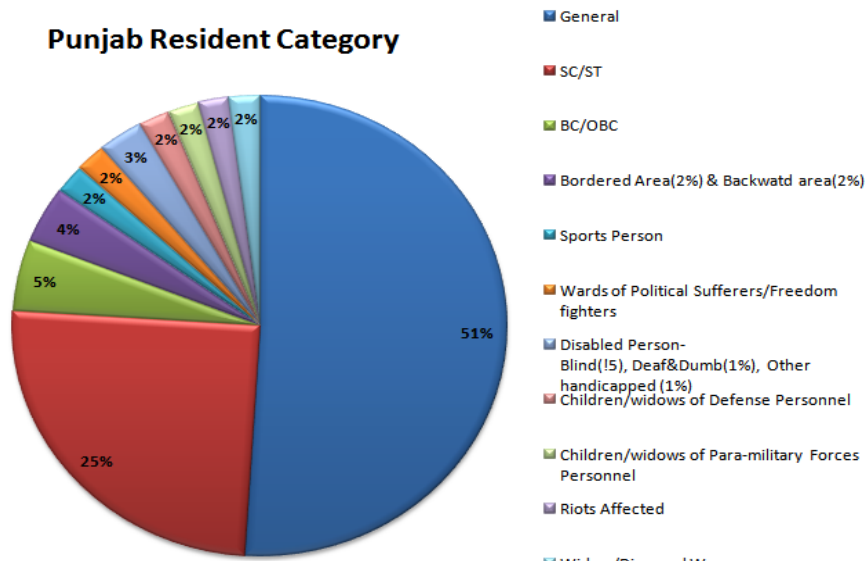## (Punjab Residents 85%; Outside Punjab 15%)

S. No.	Category			% distribution
Punjab Residents (85%)				
1	General			----
2	Scheduled Castes/Scheduled Tribes			25%
3	Backward Classes / OBC			5%
4	a	Border Area		2%
	b	Backward Area		2%
	c	(i)	Disabled Persons (Blind)	1%
		(ii)	Disabled Persons (Deaf & Dumb)	1%
		(iii)	Disabled Persons (other Handicapped)	1%
	d	Widow / Divorced Women		2%
	e	Children/ Widows of Defense Personnel		2%
	f	Children/ Widows of Para-military Forces Personnel		2%
	g	Riots Affected		2%
	h	Wards of Political Sufferers? Freedom Fighters		2%
	i	Sports Persons		2%
Outside Punjab (15%)				
1	General			--
2	SC/ST			25%
3	BC / OBC			5%
Additional Seats				
1	Rural Area			10%
2	Sports (Outstanding)			5 in each course
3	Youth Festival/ Cultural Activities			30 in Campus
4	NRI Category			5%
5	Kashmiri Migrants			1 seat in each course
6	Single Girl Child			1 seat in each course

* Now Kashmiri Migrants has been changed to Kashmiri Residents. Seat distribution in Engg., B.Ed and M.Ed as per Governemnt Notification issued from time to time.

In addition, Engineering Colleges in Rural Areas, Regional Centres, Neighbourhood Campuses,and ConstituentColleges are set up in rural areas to increase the outreach of marginalised sections.

- **Free education provided to weaker sections.**
- **Wide publicity about the reservation policy and scholarship provided.**
- **SC and differently abled category students are given relaxation in eligibility.**

Punjab Resident Category

Legend:
- General
- SC/ST
- BC/OBC
- Bordered Area(2%) & Backwatd area(2%)
- Sports Person
- Wards of Political Sufferers/Freedom fighters
- Disabled Person-Blind(!5), Deaf&Dumb(1%), Other handicapped (1%)
- Children/widows of Defense Personnel
- Children/widows of Para-military Forces Personnel
- Riots Affected
- Widow/Divorced Women

Seats For Outside Punjab

Legend:
- General
- SC/ST
- BC/OBC
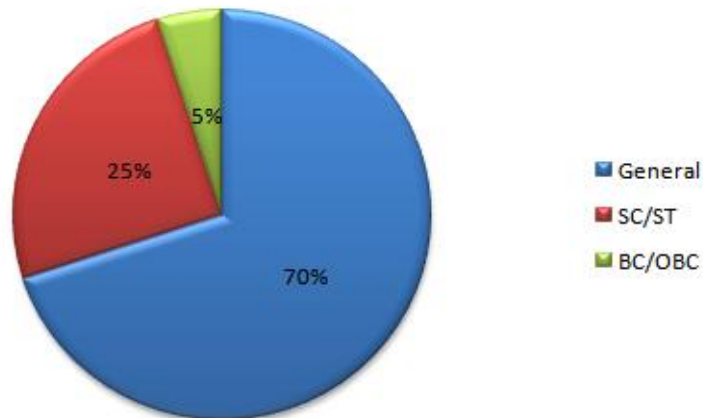
NOTE:- As per the Reservation Policy of Punjab Govt. the seats are reserved as following:

1. In all the courses where the number of seats is more than 50, the above reservation categorization is followed.

2. The reservation of seats in departments where the number of seats is 20 or above, the following categories are clubbed. The seats are allotted to the order of the merit. The clubbing of categories is given below:

   a) Border Area/Backward Area   4%

   b) Disabled persons/Widows/Divorced Women   5%

   c) Children/Widows of Defence Personnel/Para-military Personnel 4%

67

d) Wards of Political Sufferers/Freedom Fighters/Riots Affected   4%

3. The reservation of seats in department where the number of seats is below 20, the following categories are clubbed and the seats are allotted to the order of Merit. The clubbing of categories is given below:

   a) Border Area/Backward Area/Disabled Persons   7%

   b) Wards of Political Sufferers/Freedom Fighters/Children/Widows of Defence Personnel/Children/Widows of Para-military Forces Personnel/Riots Affected/Widows/Divorced Women   10%

2.1.6   Number of Students admitted in University departments in previous academic years.

Cate-gory	2010-11		2011-12		2012-13		2013-14		2014-2015	
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
General	2692	2917	2649	3040	3594	3679	3385	3951	5615	5867
SC	724	441	642	532	906	659	862	694	1107	934
ST	18	1	5	2	2	5	29	14	8	11
OBC	167	130	183	163	190	213	194	229	287	256
Other	389	187	210	165	380	245	283	225	267	211
Total	**3990**	**3676**	**3689**	**3902**	**5072**	**4801**	**4753**	**5113**	**7284**	**7279**
G.Total	**7666**		**7591**		**9873**		**9866**		**14563**	
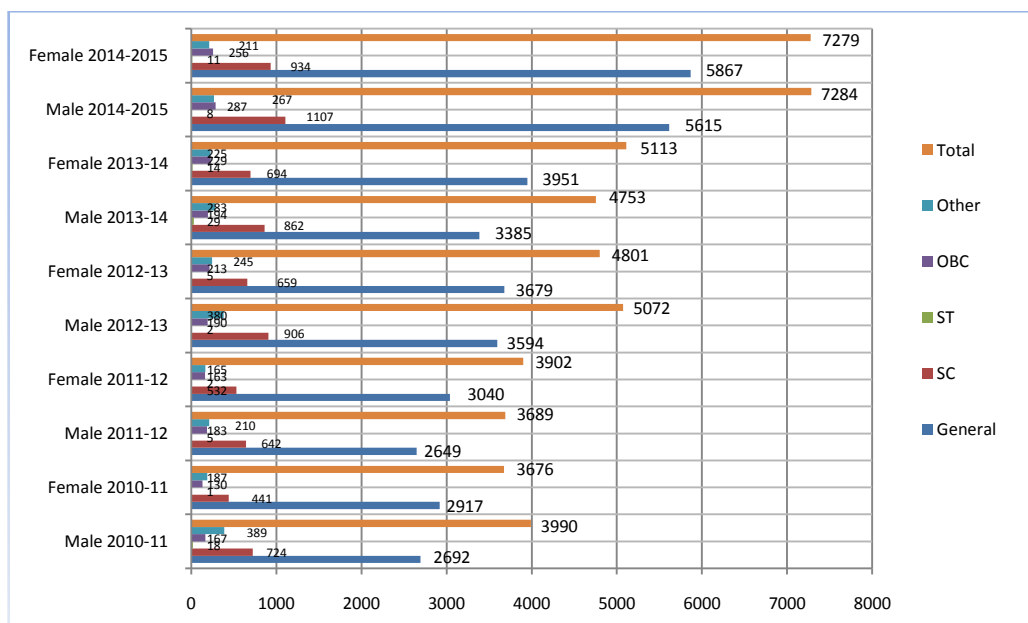
2.1.7 **Has the university conducted any analysis of demand ratio for the various programmes of the university departments and affiliated colleges? If so, highlight the significant trends explaining the reasons for increase/decrease.**

Yes, analysis of demand ratio has been conducted for the courses offered on the main campus of the University. Data is summarized in the following table:

Programmes	No. of applications	No. of student admitted	Total seats
UG	3514*	2635	2635
PG	12553*	3662	3662
Integrated Masters	900	215	215
M.Phil. / Ph.D	3818	Decided by respective department	
Certificate	178	178	656
Diploma	31	31	194
PG Diploma	380	380	591
Punjabi Praveshka (1 year)	55	55	75
Crash Course in Punjabi	20	20	20

*Number of applications received does not include applications for courses in which admission is through State level entrance tests/ counselling, *e.g.* B.Tech. (ECE, ME, CE, Civil Engg.), L.L.B, B.Ed., MBA.

As per the high value of demand ratio in Engg. Courses, the University has increased the seats in the respective departments from 60 to 180 (UG) and from 20 to 60 (PG).

2.1.8 **Were any programmes discontinued/staggered by the University in the last four years? If yes, please specify the reasons.**

Yes, four courses have been discontinued. These courses are M.Sc.(IT), M.Tech. (ICT), PGD in Journalism and Mass Comm. and PGD in Business Insurance. These were discontinued because they were no longer vialble for employment and also because of some technical reasons.

2.2 **CATERING TO STUDENT DIVERSITY**

2.2.1 **Does the University organize orientation / induction programme for freshers? If Yes, give details such as the duration, issues covered, experts involved and mechanism for using the feedback in subsequent years.**

Yes, it is done at the departmental and University level. Departments organize orientation /induction programmes for the duration of one to seven days, with the purpose of familiarizing and sensitizing the

students with the course content and the general activities of the department. The issues covered in these courses are related to the course content, books, journals, evaluation system (internal/external), discipline in the department and the University, co-curricular and other activities taken up by the department, etc. A visit to the main Library is conducted where an orientation about the different aspects of the reading material and the facilities available in the Library, etc. is given to the fresh students. Subject experts involved include teachers from the department as well as from the allied subjects. Also an idea about the facilities available in the University is given to the students.

2.2.2   Does the university have a mechanism through which the differential requirements of the student population are analyzed after admission and before the commencement of classes? If so how are the issues identified and addressed?

In each discipline the admission as such takes place on the basis of merit but there are certain specific policies for the marginalized groups which have been adopted by the university on the pattern of state government. Reservation policy of government gives the opportunity to different categories of students to get admission. At the start of the session, teachers also try to identify the academic level of each student through interaction with them and accordingly plan their teaching methodologies keeping the individual differences in their minds.

2.2.3   Does the university offer bridge / remedial / add-on courses? If yes, how are they structured into the time table? Give details of the courses offered, department-wise / facility-wise?

Some of the departments like Journalism, Gurmat Sangeet, Guru Granth Sahib, Public Administration, Women Studies Centre, Centre for Advance Media Studies, Information and Library Science, Distance Education, Department of Foreign Languages and a few more are offering add-on-courses. Every year, different departments hold extension lectures, seminars and conferences in order to create awareness and sensitize the society about the socially relevant issues. Engineering departments organises soft skill and communication skill development programmes for their students. Placement Cell also conducts communication skill development and personality development programmes for the students.

2.2.4   Has the university conducted any study on the academic growth of students from disadvantaged sections of society, economically disadvantaged, physically handicapped, slow learners, etc.? If yes what are the main findings?

A few departments of University have been conducting studies on disadvantaged sections of society, physically handicapped,

economically disadvantaged etc. and the findings are published by various departments.

2.2.5 **How does the university identify and respond to the learning needs of advanced learners?**

The identification of advanced learners in departments is done on the basis of their merit at the time of admission, MSTs conducted by the department, assignments submitted by students and class observation made by teachers.

On the basis of their learning skills, the University offers the advanced learners various (a) scholarships and (b) financial help.

Scholarships (For details, please refer to 5.1.6, p. 215)

University Merit Scholarships are being awarded on the basis of MA/M.Sc. Part-I examination results. Apart from it, students admitted to various University departments are also eligible for the following scholarships:

- Merit Scholarship under the National Merit Scholarship Schemes sponsored by the Centre and the state Governments.
- Loan Scholarships under the Government of India National Loan Scholarship Scheme.
- Scholarships, Stipends and fee concessions as admissible for time to time under the State Harijan Welfare Scheme for Students.
- Merit Scholarships awarded on the basis of results of examination conducted by the Punjabi University.
- Stipends to children/grand-children of Freedom Fighters, Ex.I.N.A. personnel and to those sponsored by Treasurer, Charitable Endowment, Punjab.
- U.G.C. Post graduate Merit Scholarship.

Departmental Merit Scholarships
Scholarships of the value of Rs.500/- each per month are available for the Post-Graduate courses, B.Pharma, B.Tech. and LL.B. in the University Teaching Departments (wherever applicable).

Justice Iqbal Singh Tiwana Memorial Scholarship (For LL.B. Students)
Each scholarship is of Rs. 400/- per month per student for the duration of three years (one student from each class, i.e. for first, second and third year). The scholarship is awarded to a student having a rural background but should have secured the first position among the students admitted under this category.

Goyal Foundation Topper Award
Goyal Foundation Topper Award is given every year to the topper student of Post-graduate courses under the Life Sciences/Physical

Sciences Faculties and Economics. This award carries a cash prize of Rs. 4000/-.

Scholarship for Blind and Handicapped Students
Ten stipends of Rs. 500/- each are available for the blind and physically handicapped students of the Post-graduate classes.

Financial Assistance to Poor Students
The facility of students' aid fund and fee concession is available to the needy and deserving students.

Student Aid Fund
The object of this fund is to render financial assistance to poor students to pay their tuition fee or examination fee or to purchase books or meet similar other expenses. Limited assistance is given to the students to meet their hostel, mess, clothing or medical expenses.

2.3 TEACHING-LEARNING PROCESS

2.3.1 How does the university plan and organise the teaching, learning and evaluation schedules (academic calendar, teaching plan, evaluation blue print, etc.)?

The evaluation schedule of teaching learning has been divided into three parts: i) external evaluation, ii) internal evaluation, iii) continuous evaluation. In most of the programmes, the question papers are set by external experts. The panel of external experts is proposed by the respective Departmental Board of Studies. The answer sheets are marked either by internal or external evaluators.

In most of the programmes 60 to 75 percent marks are for external and twenty five to forty percent for internal evaluation, whereas it was eighty percent external and twenty percent internal evaluation in previous years. Internal evaluation is based upon scores obtained by the students in MSTs, assignments, seminars, field work, class projects, attendance, etc. The students are evaluated continuously in one form or the other at regular intervals throughout the semester. Teachers of the respective departments plan their teaching according to the syllabus and needs of the students.

The University academic calendar is prepared by the committee constituted by the Vice Chancellor which has the representation from different faculties of the University. The calendar thus prepared, after the approval of the Academic Council of the University is included in the Handbook of Information and uploaded on the website of the University every year. The hard copy of the calendar is also circulated to all the concerned authorities of the University.

2.3.2 **Does the university provide course outlines and course schedules prior to the commencement of the academic session? If yes, how is the effectiveness of the process ensured?**

Yes, course outlines and course schedules are uploaded on the website and in some of the departments, these are also circulated by the respective offices. Teachers are responsible for communicating their teaching plans to the students. Head of the Department ensures this process.

2.3.3 **Does the university face any challenges in completing the curriculum within the stipulated time frame and calendar? If yes, elaborate on the challenges encountered and the institutional measures to overcome these.**

The University follows semester system. In curriculum of each course, total lectures to be delivered are mentioned based on the requirement of the course. Time table is prepared according to that requirement and the curriculum is completed within the stipulated time. However, sometimes teachers face the challenge due to the declaration of some extra holidays because of unforeseen circumstances. To cope up with these, extra classes are arranged by the faculty to complete the syllabus within time.

2.3.4 **How is learning made student-centric? Give a list of participatory learning activities adopted by the faculty that contributes to holistic development and improved student learning, besides facilitating life-long learning and knowledge management.**

To make the learning student-centric, the participatory learning activities which have been adopted by the University are:

i) Learning centered teaching techniques in the classroom such as seminars, case reviews, group interactions, project based learning, class and home assignments, etc.

ii) Learning Centered activities like Legal aid clinic, Physiotherapy clinic, Counseling clinic, and game coaching in hostels. These activities are managed by the students of the respective departments.

iii) Tutorials have been introduced in various departments of the University which are conducted in two ways: a) by introducing these in the time table b) as part of teaching strategy.

iv) Participation of students in organising seminars, conferences, workshops, symposia of their respective departments from time to time in which they learn academic oriented skills, administrative skills and leadership skills. Project Fellows and Ph.D students get training of teaching students in the departments along with their project work and Ph.D research.

2.3.5   **What is the university's policy on inviting experts / people of eminence to deliver lectures and/or organize seminars for students?**

The University follows UGC policy for inviting the experts and people of eminence. Every department invites experts as per the unanimous decision taken by the Administrative Committee of Department. The seminars for students are organised at classroom level by every course teacher but at the University level, the seminars are decided by the Administrative Committees of the respective departments and approved by the Vice Chancellor.

2.3.6   **Does the university formally encourage blended learning by using e-learning resources?**

Yes

2.3.7   **What are the technologies and facilities such as virtual laboratories, e-learning, open educational resources and mobile education used by the faculty for effective teaching?**

ICT based instructional strategies like, educational videos, blogs, e-books and teaching aids like smart boards, emails, m-teaching, instant messaging, TED talks, etc., are used by the faculty for effective teaching. Besides these, EMMRC of the University telecasts different educational programmes like EDUSAT, gyandarshan etc which are also shown to the students in different departments.

2.3.8   **Is there any designated group among the faculty to monitor the trends and issues regarding developments in Open Source Community and integrate its benefits in the university's educational processes?**

Open sources are frequently used by faculty members at their own level. The University Computer Centre and Central Library help in making access to open sources to the faculty and students whenever required.

2.3.9   **What steps has the university taken to orient traditional classrooms into 24x7 learning places?**

The University has given the facility to all students to use e-resources in the library, computer laboratories and science laboratories which remain open day and night. The faculty members act as advisors for research and mentors for academic and personal guidance throughout. Wi-Fi hotspots are created in the University campus so that students can access the e-resources anytime.

2.3.10 **Is there a provision for the services of counsellors / mentors/ advisors for each class or group of students for academic, personal and psycho-social guidance? If yes, give details of the process and the number of students who have benefitted.**

The Department of Psychology provides this service of counselling to all students of the University. Every day many students are benefitted from this service.

In many of the Departments, Faculty Advisors are appointed for each class for looking after the students' problems related to academics, administration and stay on campus.

Besides these, student mentors and wardens in the hostels help the needy students in providing personal and social guidance. In the hostels 3-5 students are helped everyday in getting their problems solved. Serious problems are referred to the Provost and Dean Students. The University teachers also facilitate in the learning of the students in three ways:

- For personal and academic guidance in their own offices during office timings as mentors,
- For research guidance at any time for the research work as Advisors
- For any kind of administrative or personal problems during their office hours as counselors.

2.3.11 **Were any innovative teaching approaches/methods/practices adopted/put to use by the faculty during the last four years? If yes, did they improve learning? What were the methods used to evaluate the impact of such practices? What are the efforts made by the institution in giving the faculty due recognition for innovation in teaching?**

The teachers of most of the courses mainly use lecture method but the trend is changing now. The teachers of different departments are using multimedia, case analysis, co-teaching, virtual mode, group dialogue, quizzes, demonstration and role playing too. They also plan for the students to participate in field visits/ industrial visits/ clinic visits/ court visits, which is compulsory in some of the departments. Teachers of the respective departments evaluate the impact of their own teaching strategies. Teachers are also using ICT enabled services/aids.

2.3.12 **How does the university create a culture of instilling and nurturing creativity and scientific temper among the learners?**

The University departments involve students in organization of extension activities, Conferences, Seminars, Workshop, Technical Festivals, Science Congress and other activities. Along with these,

Lok Melas, Youth Festivals, Sports Meets, Foundation day, Hostel Functions, Publication of Campus News, etc. give students opportunities to show their talent and develop different abilities/skills in them.

2.3.13 **Does the university consider student projects mandatory in the learning programme? If yes, for how many programmes have they been (percentage of total) made mandatory?**

- Number of projects executed within the university.
- Names of external institutions associated with the University for Student Project Work.
- Role of faculty in facilitating such projects.

Projects are integral part in most of the programme. Every student has to complete project under the supervision of the concerned teacher. The project reports are evaluated and the marks are added as part of the internal/external assessment. In about 90% of the programmes projects are mandatory.

Faculty members help and encourage other research projects to be conducted by the students independently as well as in collaboration with the teachers and other agencies. Faculty members encourage and provide guidance to the students in taking up the projects and act as advisors and collaborators too particularly in science departments, professional courses and social work department.

2.3.14 **Does the university have a well-qualified pool of human resource to meet the requirements of the curriculum? If there is a shortfall, how is it supplemented?**

Yes, the university has well qualified faculty to handle the requirements of the curriculum. Wherever there is a shortage, provision for guest faculty and faculty on contract basis is there to fill the gap.

2.3.15 **How are the faculty enabled to prepare computer-aided teaching/ learning materials? What are the facilities available in the university for such efforts?**

The faculty is given training by the staff of Computer Centre to learn to prepare computer assisted teaching learning material and every type of support is provided by the Computer Centre and Electronic Multimedia Research Centre. For details please refer 4.3.6 to 4.3.8 of Criterion IV.

2.3.16 **Does the university have a mechanism for the evaluation of teachers by the students/alumni? If yes, how is the evaluation feedback used to improve the quality of the teaching-learning process?**

There is no formal mechanism of evaluation of teachers by the alumni. However a website for alumni has been developed to interact with them within and outside the country. State chapters have been formed and meetings with them are arranged to get the feedback and support from them.

However, the teachers get feedback from students at their own level to modify their own teaching learning process according to need and requirement of students.

2.4 **TEACHER QUALITY**

2.4.1 **How does the university plan and manage its human resources to meet the changing requirements of the curriculum?**

To meet the changing requirements of the curriculum, the University has following programmes:

a) New teachers are recruited in the departments as per the requirement.

b) Teachers are allowed to attend Refresher courses, orientation courses, workshops/summer- winter training schools organised by Human Resource Development Centre.

c) The faculty members are encouraged to avail study/duty leave/academic leave to strengthen their skills from time to time.

d) To keep in touch with the latest development in their field of teaching and research, the faculty members are encouraged to attend/participate in international/national conferences/ symposia/workshops/short-term courses, etc. They are provided with adequate funds to hold and attend such research activities.

e) Teachers are given grants under the Faculty Improvement Program of UGC.

2.4.2   Furnish details of the faculty

Highest Quali-fication	Professor		Associate Professor		Assistant Professors		Total
	Male	Female	Male	Female	Male	Female	
Permanent Teachers							
D.Sc./ D.Litt.							
Ph.D.	94	44	27	20	170	158	513
M.Phil	0	0	1	0	17	12	30
PG	0	0	3	0	117	114	234
Total							**777**
Temp. Teachers							
D.Sc./ D.Litt.	0	0	0	0	0	0	0
Ph.D.	42	20	0	0	0	0	62
M.Phil	0	0	0	0	12	10	22
PG	0	0	0	0	104	86	190
Total							**274**
Part-time Teachers							
Ph.D.	0	0	0	0	0	0	0
M.Phil	0	0	0	0	0	0	0
PG	0	0	0	0	4	2	6

2.4.3   Does the university encourage diversity in its faculty recruitment? Provide the following details (department /school-wise).

Department / School	% of faculty from the same University	% of faculty from other universities within the state	% of faculty from universities outside the State	% of faculty from other countries
Punjabi University, Patiala	77.55 %	12.80 %	9.65 %	--

2.4.4   How does the university ensure that qualified faculty are appointed for new programmes/emerging areas of study (Bio-technology, Bio-informatics, Material Science, Nanotechnology, Comparative Media Studies, Diaspora Studies, Forensic Computing, Educational Leadership, etc.)?How many faculty members were appointed to teach new programmes during the last four years?

Teachers are recruited on regular or contractual basis in departments where new courses are introduced. Proper UGC procedure is followed and qualified teachers as per UGC norms are appointed. Services of guest faculty are also taken, wherever required.

95 faculty members have been recruited in departments where new courses have been introduced.

2.4.5   **How many Emeritus / Adjunct Faculty / Visiting Professors are on the rolls of the university?**

Emeritus = 01, Adjunct = 02, Professor of Eminance = 04, Visiting Professors = 134 (During the last 6 years).

2.4.6   **What policies/systems are in place to academically recharge and rejuvenate teachers (e.g. providing research grants, study leave, nomination to national/international conferences/ seminars, in-service training, organizing national/international conferences etc.)?**

- The University appreciates and honours all those teachers who are conferred with National/International Awards in recognition of their research work.

- The faculty members are encouraged to avail study/duty leave to strengthen their skills from time to time.

- The faculty members are also encouraged to attend/participate in International/national conferences/symposia/workshops/ short-term courses.

- They are also provided with adequate funds to organize such research activities.

- Teachers are given grants under the Faculty Improvement Program of UGC.

- Teachers are allowed to attend Refresher courses, Orientation courses, Workshops/Summer-Winter training organised by Human Resource Development Centres and other bodies.

Under above mentioned   policies, the number of faculty members who

a.	received research grants	**63**
b.	availed study leave	**59**
c.	attended national/international conferences/seminars, in-service training	**264**
d.	organized national/international conferences, etc.	**124**

2.4.7   **How many faculty received awards / recognitions for excellence in teaching at the state, national and international level during the last four years?**

39

2.4.8 **How many faculty members underwent staff development programmes during the last four years (add any other programme if necessary)?**

Academic Staff Development Programmes	Number of faculty
Refresher courses	158
HRD programmes	167
Orientation programmes	116
Staff training conducted by the university	027
Staff training conducted by other institutions	039
Summer/Winter schools, workshops, etc	140

2.4.9 **What percentage of the faculty have**

been invited as resource persons in Workshops/Seminars/Conferences organized by external professional agencies?	**34%**
participated in external Workshops/Seminars/Conferences recognized by national/international professional bodies?	**83%**
presented papers in Workshops/Seminars/Conferences conducted or recognized by professional agencies?	**40%**
teaching experience in other universities/national institutions and other institutions?	**26%**
industrial engagement?	**7%**
international experience in teaching?	**1%**

2.4.10 **How often does the university organize academic development programmes (*e.g.*: curriculum development, teaching-learning methods, examination reforms, content/knowledge management, etc.) for its faculty aimed at enriching the teaching-learning process?**

Decisions with respect to above are taken during the meetings of the Administrative Committees of Departments, Boards of Studies and Faculties.

Every Year once each department holds meeting of Board of Studies and each month meeting of Administrative Committee of Department. In the meeting of Board of Studies the outside experts are invited. In these meetings all the issues related to curriculum development, teaching-learning methods, examination reforms and knowledge management are regularly discussed and the outcomes of them are implemented. The decision/implementation are evaluated in the following meetings also. The University has Human Resource Development Centre which was established in April 2009. This Centre is equipped with latest technology, Computer Lab, a lecture theatre fitted with latest gizmos. For the

expansion of Human Resource Development Centre, two more lecture theatres are planned to be built on the upper floor of the existing building.

The Human Resource Development Centre has offered following courses:

- 19 orientation programs for senior administrators, heads of departments, principals, deans and other decision- makers to familiarize them with the philosophy of orientation.
- 39 Refresher Courses in Thrust areas of Environmental Studies, Professional Courses (MD), Mathematics and Statistics, Research Methodology in Physical & Life Sciences, Business Studies (Commerce & Management Studies), Social Sciences (All Social Sciences), Languages (All Languages), Computer Sciences & Information Technology (ID), Research Methodology in Social Sciences, Education and Library & Information Science, Life Sciences, Physical Education.
- 10 Workshops/Short Term Courses. These are: Workshop on Research in Music: Problems & Prospects, Workshop on Disaster Management, Practical Workshop for Botany Teachers, Interactive Workshop for Ph.D. Students, Workshop on Communication Skills & Personality Development, Workshop for B Class Officials and Principals' Conference.
- Brings out publications relevant for enhancing the teaching and research capabilities of teachers.
  - Centralised Admission Cell since 2011 has been organizing workshops on admission process, data management, creation and management of students data base and its use.
  - Meetings for examination reforms by examination branch have been held regularly to bring out the reforms.

2.4.11   Does the university have a mechanism to encourage:-

mobility of faculty between universities for teaching?

Yes, the university has entered into MOU and has active collaboration with the Wilkes University, Pennsylvania, USA,; Kutztown University, PA, USA; Grand Valley State University, Michigan; Kwantlen University College, Surrey, Canada; University of Fraser Valley, Canada; Yantai University, China; Tribhuvan University; University of South Pacific, Fiji. Under the collaboration, the faculty/students from both the Universities have been visiting each others' institutions quite regularly.

faculty exchange programmes with national and international bodies? If yes,
how have these schemes helped in enriching the quality of the faculty?

Yes

Punjabi University Patiala has signed MoU with World Gatka Federation, and Directorate of Census Operations, Punjab to set-up the country's 2nd Workstation for research on Micro-data. The varsity and the Apex Group of Companies based in Dubai have agreed to co-operate with each other to facilitate academic cooperation, initiatives in the areas of joint research, policy dialogue and capacity building particularly in the areas of hospitality, tourism and business management.

2.5 EVALUATION PROCESS AND REFORMS

2.5.1 How does university ensure that all the stakeholders are aware of the evaluation process that are in place?

The details of evaluation method are published as part of the syllabus of each course and are available with department/college office and University publication bureau and also on the university website. Teachers also explain about this in the classroom during orientation programs. Students are also informed as and when changes are made in process.

2.5.2 What are the important examination reforms initiated by the university and to what extent have they been implemented in the university departments and affiliated colleges? Cite a few examples which have positively impacted the examination system.

Introduction of some automations/online facilities for the students by the Examination Branch is one of the major such steps towards examination reforms taken by the University. Semester system has been introduced in all undergraduate and post graduate classes. Examination reforms as per the recommendations of University Grants Commission under Rashtriya Ucchatar Shiksha Abhiyan (RUSA) have been initiated from the session 2014-2015 in which cumulative and comprehensive multiple teacher based evaluation has been given due emphasis with marks earmarked for class performance, field performance, assignment writing, group discussion, tutorial presentation, seminar presentation and class attendance so as to involve teachers and discourage malpractice in the examination. Responsibility for the conduct of examination and evaluation of the answer scripts on the campus has been given to the respective Departments.

Transperancy has been introduced in evaluation system. Students are shown their evaluated answer scripts after every Internal Examination and objections of the students about the awards given are rectified by the teachers on the spot. After awards are finalized, the total result of the Internals is displayed on the Departmental Notice Board before sending it to the Examination Branch for the final compilation. The paper setting in most of the cases is external and evaluation is internal. In the colleges Centralised Evaluation Centres are being created so as to facilitate the evaluation process for timely declaration of the results. The students of all the courses are allowed re- checking and re-evaluation of answer scripts of the final examination, in case one is not satisfied with the initial marking. All the re-evaluation scripts are sent to the external evaluators. Grace Marks, Supplementary chances, Improvement chances and Special chances are also given to the students as per the provisions of the ordinances. Results are put on the University website and Detailed Marks Cards and Degree Certificates issued to the students are computerized. Students have the option to download the Detailed Marks Card from the website itself. Grading system has been adopted for expressing the performance of the students in the Internal and Final Exams. In order to facilitate the easy availability of result after declaration from the session 2014-2015, Mobile App. has been started by the Examination branch. For some of the exams (B.Ed. and B.A.II), to minimize the manual intervention, outer page of the Answer Sheet has been prepared which is OMR savy Students are made to fill all their examination related information on the outer OMR sheet. Evaluators also fill the awarded marks related information in the respective blocks. Through scanner the total data of the candidate and the awards given by the evaluator are recorded and used for preparation of the result. All the entrance tests being conducted by the University are processed through OMR.

2.5.3   **What is the average time taken by the University for Declaration of examination results? In case of delay what measures have been taken to address them? Indicate the mode/media adopted by the University for Publication of examination results?**

Declaration of results depends upon the strength of students in the course. Normally it takes not more than 60 days in declaring all the results. In case there is any delay in the declaration of any result, the cause of the result is immediately analysed and immediate action is taken – calling the examiner/evaluator of the sheets, collecting results personally, etc.

The result is displayed on the University website in public domain. Anybody can access the result easily.

2.5.4 **How does the university ensure transparency in the evaluation process? What are rigorous features introduced by the university to ensure confidentiality?**

The details of the evaluation method are published as part of the syllabus of each course and are available with department/college office. Teachers also explain it in the classes.

Evaluation process
To maintain the transparency and retain credibility of examination system, the University ensures that :
- All examinees have full information about the planned content of the knowledge-kit and its compartmentalization from examination perspective.
- There is balanced mix of essay-type and short answer type questions.
- The paper setters chosen are generally mature and experienced.
- The standardization of the process of re-evaluation/re-checking/getting photocopy of the answer sheet.
- Attending to the complaints about questions being outside the prescribed knowledge-kit in the question paper.
- Provision of reconsideration of the evaluation done by the first evaluator as a grievance redressal mechanism.
- Provision of procuring photocopies of answer sheet.
- Provision of re-checking and re-evaluation.

The examination system has the following different stages of evaluation till the declaration of the results.

Initiative taken prior to the issue of roll numbers to examinees.

Computerized cut list
The information from examination forms submitted by the candidates is directly fed into the computers.

Eligibility
Eligibility of the candidates is verified before issuing the roll numbers,

Evaluation Methodology

- The answer-books from examination centres are collected immediately after the examination.
- To conceal the identity of the examinees, the title page of answer-book is blind folded.
- Fictitious roll numbers on the answer-books are allotted by the evaluator on the basis of pre-defined printed series of award list supplied to them.

- Monitoring of evaluation progress on telephone is a regular feature.
- De-coding of answer sheets is also part of the evaluation work. The act of decoding involves transfer of original roll number as well as its checking.
- Spot evaluation of answer-books of Post-Graduate classes is done at the University campus evaluation centre by the University staff.
- The results of candidates of affiliated colleges and private candidates are put on Punjabi University website. A printed copy of the result from the website is accepted as a provisional proof of the candidate's claim of eligibility by admission committee.
- Evaluation payments are made on the spot and payment of paper setting is also made on the spot to outside examiners.

Computerization of results and result cards

- Awards are fed directly obtained from OMR sheet by OMR reader machine which are directly fed into computer in some of the examinations.
- Computerized output is also verified from the answer books to avoid any discrepancy.
- Detailed-marks-card (DMC) are issued to the students after the lamination.
- Subject-wise marks are available on the website
- Mobile app has been launched for the students' benefit to view the result.

2.5.5 **Does the university have an integrated examination platform for the following processes**

- Pre-examination process, time table generation, OMR, student list generation, invigilators, squads, attendance sheet, online payment gateway, etc.
- Examination process – examination material management, logistics etc.
- Post examination process – attendance capture, OMR based exam results, auto processing, generic result processing, certification etc.

The University has integrated examination cell to perform pre-examination and examination processes. The University has sufficient infrastructure to implement all pre-examination and examination processes as listed above.

Students can deposit the fee directly in the bank account of the University maintained with SBOP.

2.5.6   **Have the University introduced any reforms in its PhD evaluation process?**

Ph.D course work has been introduced in 2009 as per UGC norms. Ph.D coursework exams marks are replaced by the grades (Grade A-F). Annual seminars are held to check the performance of the researcher. Atleast one publication in refereed journal is a pre-requisite beforethesis submission

2.5.7   **Have the university created any provision for including the name of the college in the degree certificate?**

Not yet

2.5.8   **What is the mechanism for the redressal of grievances with reference to examination?**

For redressal of grievances pertaining to examination, the following measures are being practised:

- Any student can apply for re-evaluation.
- After the re-evaluation, if the difference of marks is more that 15%, the answer sheet is sent to the third examiner. The average of the best two evaluation marks is the marks obtained in the paper.
- The student can also get photocopy of his/her evaluated answer book.
- In case of any problem regarding out of syllabus question paper, etc., students can write to Dean Academic Affairs. The office of Dean Academic Affairs takes appropriate decision to redress the grievances of the students.
- In case of Unfair Means Case, the student can approach Dean Academics to seek justice in his/her case.

2.5.9   **What efforts have been made by the university to streamline the operation at the office of controller of examination? Mention any significant efforts which have improved the process and functioning of examination division section?**

Adequate manpower is enforced to handle the queries/grievances in the office of controller examination. Under the new University rules, departments themselves are conducting the final exam in their respective departments. The controller of examination acts as the facilitator of examination. Logistic support (distribution and collection of answer sheets/question papers and other related material) is provided by the controller of examination. Results are displayed on the website of the University and information about the declaration of results is provided in the newspapers also.

2.6   STUDENT PERFORMANCE AND LEARNING OUTCOMES

2.6.1   **Has the university articulated its Graduate Attributes? If so, how does it facilitate and monitor its implementation and outcome?**

The University has started the process of articulating its graduate attributes through a hired private company which facilitates and monitors the implementation through AMCAT. Its special focus is on professional graduates. Individual reports, thus prepared are given to the students for further implementation.

2.6.2   **Does the university have clearly stated learning outcomes for its academic programmes? If yes, give details on how the students and staff are made aware of these?**

Yes, in most of the University programmes, in the curriculum of the programme itself, learning outcomes are mentioned along with the course content, and students are made aware of these in the respective classes also. The information can be got through the University website also.

2.6.3   **How are the university's teaching, learning and assessment strategies structured to facilitate the achievement of the intended learning outcomes?**

The teaching, learning and assessment strategies are planned in the Administrative Committees of the Departments approved by the Vice Chancellor. This planning is discussed in Board of Studies of the respective departments and approved by respective Faculty and Academic Council.

2.6.4   **How does the university collect and analyse data on student learning outcomes and use it to overcome the barriers to learning?**

Learning outcomes of students are judged by the respective departments through MSTs, tutorials and assignments, final examination result, pass percentage, drop outs, project work, etc. and teachers concerned take care of the left behind students. Data of various components is available with the examination branch and the departments also get the information through feedback from the students and plan to overcome the problems, if any

2.6.5   **What are the new technologies deployed by the university in enhancing student learning and evaluation and how does it seek to meet fresh/future challenges?**
The University has increased the number of smart classrooms. The latest technology to improve the internet access and Wi-fi facility has been strengthened to enhance students' learning.

CRITERION-III
RESEARCH, CONSULTANCY AND EXTENSION

Criterion-III
Research, Consultancy and Extension

Introduction

Punjabi University, Patiala is putting dedicated efforts towards achieving excellence in teaching and research. A testimony to these claims is the award of three departments under the UGC-CAS, eight departments under UGC-SAP and 11 departments under the DST-FIST programmes. Apart from this, there is also the sanction of a DBT sponsored Interdisciplinary Programme of Life Sciences (DBT-IPLS) programme. The University has adopted the UGC Regulations for Ph.D.[2009] in the Ph.D regulations of the Punjabi University, from the year 2010.

3.1   PROMOTION OF RESEARCH

3.1.1   Does the university have a Research Committee to monitor and address issues related to research? If yes, what is its composition? Mention a few recommendations which have been implemented and their impact.

Yes, the University has a system to monitor research activities in the University.

With an aim to get good output the research is monitored by three tier system.

At Department Level (DRB, EPC)

- **Departmental Research Board (DRB)** is constituted in each department to monitor the research activities. The functions of the DRB are:

    o to facilitate submission of research proposals by the faculty and students to various agencies
    o to monitor the progress of research conducted by the research scholars of the department
    o to consider all other matters related to research in the department.

- **Composition of DRB**
    o Head of the Department (Chairperson)
    o ▪ All Professors in the subject, employed in Punjabi University, Patiala.
      ▪ Associate Professors and Assistant Professors who hold Ph.D. Degree
    o One/two teachers from allied/supporting departments to be nominated by Dean, Academic Affairs.

- **Examiner Panel Committee (EPC)**
  - The Head of the Department (Chairperson)
  - All Professors in the Department
  - If there is no Professor other than Head of the Department or the Head of the Department is an Associate Professor, a Professor from an allied Subject/Department to be nominated by Dean, Academic Affairs.
  - Supervisor of the Candidate.
  - Where the quorum is incomplete, Vice-Chancellor may nominate one or two Professors from allied subject/department.

- **At Faculty Level**
  The research and development is looked after by ten Deans of faculty. The committees are

- **Comprehensive Report Review Committee (CRRC)**
  - Dean of the Faculty concerned (Chairperson)
  - Head of the Department
  - Supervisor and Co-supervisor, if any

- **Screening Committee**
  - The Dean of the Faculty (Chairperson)
  - The Head of the Department
  - The Supervisor of the Candidate
  - One or Two Professors from within the Faculty to be nominated by the Vice- Chancellor
  - Where quorum is incomplete, the Vice-Chancellor may nominate one or two Professors from relevant/ allied subjects.

- **Thesis Publication Committee**
  - The Dean of the Faculty (Chairperson)
  - The Head of the Department
  - The Supervisor

- **Overall**
  Overall, the quality of research is monitored by the Dean and additional Dean of Research under the Chairmanship of the Vice-Chancellor.

- **Board of Post Graduate Studies and Research (BPSAR)**
  - Vice-Chancellor (Chairperson)
  - The Dean, Academic Affairs
  - The Dean Research
  - The Dean of Faculty
  - All Professors and the Heads of University teaching departments in the Faculty

     o   Two experts from outside the University to be nominated by the Vice-Chancellor.

- **Research Award Committee (RAC)**
  - o   Vice-Chancellor (Chairperson)
  - o   The Dean, Academic Affairs
  - o   The Dean Research
  - o   The Dean of Faculty
  - o   All Heads of the Departments in the Faculty and one Professor from each department in the Faculty by rotation according to seniority for a term of two years.
  - o   Supervisor of the candidate.

3.1.2   What is the policy of the university to promote research in its affiliated/constituent colleges?

Punjabi University has rich and long legacy of nurturing high quality research and has a policy to promote research in various campuses, constituent colleges and affiliated colleges. To ensure this:

- Pro-active role is played by the University by encouraging the college teachers to actively involve themselves in research. The regular college teachers holding PhD degree with five year experience of teaching to post graduate classes are entitled for supervising PhD thesis. Many students have been awarded PhD degrees under the supervision of college teachers.
- The college teachers can collaborate with the labs and other research groups of the University and carry on their research work. They can also access the Library and other resources of the University.
- The college teachers are regularly invited to attend different conferences/workshops/seminars organized by the University.
- Human Resource Development Centre (Formerly Academic Staff College) has been established which organizes regular as well as need-based Refresher Courses on research methodology for the University and College teachers.

3.1.3   What are the proactive mechanisms adopted by the university to facilitate the smooth implementation of research schemes/projects?

The University has positive attitude and extends full support while implementing the research projects by the individual researchers within the framework of rules and regulations. The University administration with clear procedural guidelines gives full support to Research Purchase Committees at the level of Departments and the University, to take autonomous decisions

thereby promoting transparency and accountability.

- **Advancing funds for sanctioned projects :**
  - On request of Principal Investigator (PI), the University provides advance funding under admissible heads.

- **Simplification of procedures related to sanctions/ purchases to be made by the investigators** As per the sanctioned budget and items to be procured, PI can procure each item worth up to Rs.2000/- without the approval of Purchase Committee

- **Autonomy to the principal investigator/coordinator for utilizing overhead charges** Full autonomy is extended to PIs to utilize the grant sanctioned under 'Overhead Charges' to the extent of 50%. However, the PI needs to spend the amount by following the regular procedure.

- **Timely release of grants:** Soon after receiving the sanction letter, the University releases grants required to operate the project on the request made by PI. The PIs are allowed to open a separate Bank Account if required, to facilitate purchases as well as payments.

- **Timely auditing:** The University facilitates auditing of accounts of each project by the Punjab State Auditing officials posted at the campus.

- **Submission of utilization certificate to the funding authorities** In the case of the ongoing projects, the University issues Provisional Utilization Certificate after due verification and forwards the same to funding agency for the release of subsequent grants. Final utilization certificate is also issued to the PIs on the completion of the projects.

3.1.4 How is interdisciplinary research promoted?

The University has since long recognized the importance of interdisciplinary exchange of ideas and encourages and promotes inter-disciplinary teaching and research. The University continues to explore all possible ways of interconnecting researchers across the disciplines and those working in different research areas.

- **Between/among different departments/schools of the university**
  Interdisciplinary research among different departments is promoted through
  - the recognition of research supervisors of allied subjects in each department

- o the collaboration of teachers of different departments to guide a PhD project of interdisciplinary nature as supervisor and co-supervisor
- o submission of the joint research proposals to various funding agencies. In recent times, in the Department of Biotechnology (DBT)- Inter-disciplinary Programme of Life Sciences (DBT-IPLS) has been initiated in the University which has made ground to activate research and overcome interdisciplinary boundaries among the departments of life sciences of the university

- **Collaboration with national/international institutes/ industries.**

    Several departments in Punjabi University have established various types of teaching and research collaboration with national and international institutes. Some examples of these include:

S. No.	Name of the University/Institution	Areas/Subjects/ Departments
1.	International Water Management Institute (IWMI), Colombo, Sri Lanka	Sociology
2.	National Research Development Corporation, New Delhi	Biotechnology
3.	Institute of Himalayan Bio-resource Technology, Palampur (HP)	Botany, Biotechnology
4.	Indo-Swift Laboratories, Mohali (INDIA)	Chemistry
5.	Indian Council of Agricultural Research, National Agricultural Innovation Project	Biotechnology
6.	University of Pennsylvania Institute for Advance Study of India (UPIASI), New Delhi (INDIA)	Economics
7.	HNB Garhwal University Srinagar, Uttarakhand (INDIA)	School of Management Studies (SMS), Commerce
8.	Directorate of Mushroom Research, Chambaghat, Solan	Botany
9.	Indian Institute of Integrative Medicine, Jammu	Botany
10.	Gurmat Sagar Trust, Sri Anandpur Sahib (GST)	Religious Studies
11.	National Stock Exchange of India, New Delhi	SMS, Commerce, University School of Applied Management
12.	Director of Census Operations, Punjab, Ministry of Home Affairs, GOI, Chandigarh	Social Sciences
13.	Post Graduate Institute of Medical Education & Research (PGIMER), Chandigarh	Physiotherapy, Biotechnology

3.1.5   **Give details of workshops/training programmes/sensitization programmes conducted by the university to promote a research culture on campus.**

The University has given full freedom to all its teaching and research departments for conducting workshops and other training programmes with adequate financial and administrative support. There is also a provision to arrange the lectures of eminent personalities. The HRD centre (formerly Academic Staff College) of the University and Sophisticated Scientific Instrumentation Centre are also playing an important role in promoting research by way of holding special workshops on research methodology for research scholars. Details of various workshops arranged by various departments are given below:

Table 3.1:
List of workshops/training programmes/sensitization programmes conducted

Department	Workshops/ sensitization programmes
Botany	• Workshop for Botany Teachers (March 8 to 14, 2014)
Centre for Advanced Media Studies	• Workshop by Mr. Om Puri • Workshop by G.S. Channi • Radio Workshop by Mr. Amardeep Waraich • Workshop on film making by Dr. Vikram Dutt • Workshop on documentary film making by Dr. Dina Pinos from the US. • Workshop on communication and body language by Mr. Probir Guha • Workshop on advertising by Dr. Kulveen Trehan • Workshop on Advertising Communi-cation by Dr. Sanjay Wadwalkar
Centre for Diaspora Studies	• Five Day Orientation Programme for Translators organized jointly with National Translation Mission, Central Institute of Indian Languages, New Delhi, Feb. 12 - 16, 2013 • National Workshop on 'Indian/Punjabi Diaspora: Identities, Locations, Intersections', Mar. 28-30, 2013

Centre For South West Asia Study (Pakistan and Afghanistan	• Two days workshop on "Researching Standards and Techniques for study of social Development at Regional Levels", 27-28-Jan, 2009. • Agrarian Distress and Rural Suicides held on 31 Aug, 2012,
Commerce	• Department has organized two day workshop on Research Methodology on 28-29, January 2009
Computer Science	• The Department conducted a seven day workshop in Digital Image Processing Using MATLAB from Nov 29, 2012 to Dec 5, 2012. • Dr. D.S. Broca, Professor, XLRI Jamshedpur, conducted a one day workshop on the topic "Business Process Simulation" on April 22, 2013. • The Department organized a three day workshop on "Business Intelligence" from 15th July to 17th July, 2013 jointly with Shaheed Udham Singh Group of Institutions, Tangori. • The Department conducted a seven day workshop on multilingual technologies from Nov 11-17, 2013. 102 research scholars, teachers and students from all over India participated in the workshop. • Professor Kum Kum Garg, Dean, Faculty of Engineering, Manipal University, Jaipur, delivered a talk on the topic "Research Challenges in the IoT and Big Data", on March 21, 2014.
Dance	• Kathak Dance Workshop,2009 • Rajasthani Dance Workshop, March, 2010 • Classical Dance Kathak Workshop, September, 2010 • Mime & Folk Dance Workshop, March, 2011 • Contemporary Dance Workshop, September, 2011 • Maharastrian Folk Dance Workshop March, 2012 • Classical Dance Workshop, September, 2012

	• Gujrati Folk Dance Workshop, March, 2013 • Production Oriented Theatre Dance Workshop September, 2013 • Classical Dance Kathak Workshop, January, 2014
Education & Community Service	• Workshop on Research Methodology and Statistics on 16-18 March, 2011. • Quality Concerns in Teacher Education on 7-8 Feb, 2013.
Engineering (UCOE)	• Robotics Workshop by DKOP Labs Pvt. Ltd 29-30 Aug 2011. • Workshop on *ethical hacking and network security workshop,* Feb. 1-2, 2012. • Three workshops in the areas Ethical Hacking & Network Security, Android, Advanced Robotics Oct. 20-21, 2012
English	• 'Articulating Reality: Literature, Ethics and Culture' (2008) • 'Literature and Philosophy: Tracing the Pathways' (2009) • 'Writing Subaltern: Across Histories, Cultures, Geographies'(2010) • Re-assessing World Drama: Visions, Experiments, Traditions (2011) • Prophetic Visions and Voices in Poetry: Writing Self and the World (2012) • New Paradigms in Fiction/Non-fiction: Exploring Alterity and Traditions (2013) • South and West Asian Literature and Film : Narratives of Modernity (2014)
Gurmat Sangeet	• Miniature painting workshop (11-15. Oct. 2010). • Workshop organized for PhD Research scholars (06-10 Dec. 2010)
Human Genetics	• Workshops conducted by Prof. Surinder Nath (13-14 March 2012) • Workshops conducted by Dr. K.N. Saraswathy (28 Feb to 2nd March 2013)
Linguistics & Punjabi Lexicography	• Indian Language Corpora Initiative Workshop (HRD Funded)
Library and Information Science	• "Training-The-Trainers Information Literacy Workshop" sponsored by

	UNESCO and organised by DLIS, Punjabi University, Patiala from 05-07 November 2008.
	• "Libraries as Transparency Institutions: IFLA Transparency Manifesto Workshop" Sponsored by IFLA/FAIFE and organised by DLIS, Punjabi University, Patiala from 17-18 Nov. 2009.
	• Dr. Amrik Singh Memorial Lecture on 'State of the Nation', 28 July 2011.
Music	• Five day workshop on music was organised at Andretta, H.P from 21-27 Sept. 2008 conducted by Prof. Yashpal from Chandigarh and Dr. Harvinder Sharma from Chandigarh.
	• A five day workshop on music was organized at Andretta, H.P from 23 Sept. to 27 Sept. 2009 conducted by Principal Narinder Narula, Patiala and Prof. C.L.Verma from HPU, Shimla
	• A five day workshop on music was organized at Andretta, H.P from 12 Sept to 18 Sept. 2010 conducted by Dr. Hukum Chand, MDU (Rohtak), and Dr. Prateek Chaudhari (Delhi)
	• A Classical Music Workshop was co-ordinated by Dr. Rajinder Singh Gill held at Andhretta (H.P) during 16 Oct to 22 Oct 2011.
	• Prof. Tara Singh Smriti Samaroh was organized in collaboration with dept. of Gurmat Sangeet on Sept 18, Prof. Tara Singh Smriti Award was conferred upon Prof. Geeta Paintal, and Dr. Satyabhan Sharma from Agra performed Haveli Sangeet.
Physiotherapy	• One day workshop on "Cardio-pulmonary Resuscitation" by experts of Apollo Hosp., Ludhiana in 2008.
	• Two days workshop on "Orthotics & Prosthetics" by Mr. Nirmalendu Guin prosthetic orthotic engineer of PGIMER, Chandigarh on 14-15 Feb 2009
	• Two days workshop on the topic of "Concepts and Techniques of Neural Mobilization"by Prof. A.G. Dhandapni

	in collaboration with IAP Punjab branch was organized in Oct 2009. • One Day workshop on "Taping Techniques" by Dr. Mithilesh & Dr. Sandeep. • One day CME on "New generationtotal knee replacement and post surgical rehabilitation"8th Feb 2014.
Political Science	• One Workshop
Public Administration	• Two workshops
Punjabi	• Upadhimulak Punjabi Khoj: Prakiriya, Sathiti ate Chunotiyan (2009)
Social Work	• Two Training Workshops for HIV/AIDS Counseling
Tourism, Hospitality & Hotel Management	• Organized twice culinary skills workshop in association with women studies department for specially-abled students
Zoology & Environment Sciences	• Workshop on Insect Taxonomy, 2015 • Workshop on Biodiversity Conservation-MoEF (2011, 2014) • Workshop on Biological Diversity-PBD (2012, 2013, 2014)
Professor Harbans Singh Deptt. of Encyclopaedia of Sikhism	• 26-28 February 2008, International seminar on**"Religion and Human Social Responsibility"** (In collaboration with Association of Himalayan Yoga Meditation Societies International (AHYMSIN), Rishikesh). • 30-31 January to 1 February 2009, National Seminar on the topic **"Punjabi Language, Thought and Culture: Development & Evaluation.** (In Collaboration with Centre for Studies in Civilization, New Delhi & Centre for Research in Rural and Industrial Development, Chandigarh) • 2-4 March 2010, International Semi on the topic **"Interfaith Under-standing and World Peace"** (In collaboration with Association of Himalayan Yoga Meditation Societies International (AHYMSIN), & Nirmal Ashram of Rishikesh).

	8-10 February, 2011, International Seminar on the topic**" Emerging Trends in Religion"** (In collaboration with Institute of Meditation and Interfaith Studies, Rishikesh). 14-16 December, 2011, International Seminar on the topic**" Religious Perspective on Unity in Diversity".** (In collaboration with Institute of Meditation and Interfaith Studies, Rishikesh). 11-13 March, 2013, International Seminar on the topic **"Spirituo Ethical Concerns of Religion"**, Seminar funded by the University. 5-7 March 2014, International Seminar on the topic **Religious Understanding & Social Harmony,** Seminar funded by the University. 9-10 March, 2015, National Seminar on the topic **"Socio-Spiritual concerns of Religion"** Seminar funded by the University. 18 May, 2015, National Seminar on the topic Komagata Maru: Symbol of Struglle for freedom (In collaboration with Komagata Maru Memorial Trust and Baba Nidhan Singh ji International Society) **Endowment Funded Lectures organized by the Department** **Sardarni Kailash Kaur Memorial Lectures:** 4 November 2008 on the topic**"Swami Vivekanand: The Exponent of Religious Harmony** by Prof. Swaraj Basu. 4 December 2009 on the topic **Sikhism and Budhism: Interfaith Dialogue** by Prof. Hari Shankar Prasad. 4 November 2010 on the topic **Islam and Civil Society** by Prof. J.P.S Uberoi. 15 December 2011 on the topic **Unity**

	in Diversity in Sri Guru Granth Sahib by Dr. Sawraj Singh, U.S.A. • 12 March 2013 on the topic **Spirituo-Ethical Concerns of Religion** by Dr Balwant Singh Dhillon, Amritsar. • 6 March 2014 on the topic **Religious Understanding and Social Harmony** by Bhai Ashok Singh Bagrian, Chandigarh. • 10 March 2015 on the topic **Socio-Spiritual Concerns of Religion** by Dr. Gurnam Singh Sanghera. **(B) Col. Harpartap Singh Dhillon Memorial Lectures** • 21 November 2008 on the topic **Religious Tolerance**by Prof. S.P.Dubey. • 11 January 2010 on the topic **Sikh Religion, Heroism And Contemporary Challenges** by Prof. Inder Nath Chaudhry. • 11 April 2011 on the topic "ਧਰਮ ਅਤੇ ਸੂਰਬੀਰਤਾ " by Devinder Dayal Singh Sandhu. • 09 August 2012 on the topic ਨਿਰਮਲ ਸੰਪਰਦਾਇ ਦੀ ਗੁਰਬਾਣੀ ਵਿਆਖਿਆ by Giani Balwant Singh Kothaguru. • 28 January, 2014 on **Dakhani Sikhs: A Sociological Profile** by Prof. BirinderPal Singh, Sociology Department. • 03 March, 2015 on the topic **Celebrating Tricentenary of Martyrdom: Revisiting British Historiography on Baba Banda Singh Bahadur** by Dr. Amarjit Singh, Director, Baba Banda Singh Bahadur Chair, Kurukshetra University, Kurukshetra. **Special Lecture Funded by University** • The Department organized Special Lecture on the topic **Sikh Relicsand Artifacts in the UK** dated 22 April 2015 by S. Gurinder Singh Mann, UK.

3.1.6   **How does the university facilitate researchers of eminence to visit the campus as adjunct professors? What is the impact of such efforts on the research activities of the university?**

The University hosts the visits of nationally and internationally renowned professors from within the country and outside the country and bears their local hospitality expenses. The University welcomes every outstanding researcher for delivering talks at various occasions and platforms. These deliberations play a major role in promoting research atmosphere on the campus.

3.1.7   **What percentage of the total budget is earmarked for research? Give details of heads of expenditure, financial allocation and actual utilization.**

A major share of the University budget is earmarked to promote research. The budget allocated for research ranges between 10.31% to 13.92%.

The budget amount under the plan grant for research for the four years is given below:

Table : University Budget for Research

Sr. No.	Year	Allocation (In Rupees)	Actual Utilization (In Rupees)	Percentage of Total Budget
1	2011-12	30,37,24,124	28,14,04,579	13.92%
2	2012-13	34,93,93,175	31,82,73,729	13.02%
3	2013-14	34,63,35,859	30,69,86,192	10.85%
4	2014-15	39,52,85,027	35,74,35,822	10.31%

3.1.8   **In its budget, does the university earmark funds for promoting research in its affiliated colleges**

Not yet.

3.1.9   **Does the university encourage research by awarding Post Doctoral Fellowships/Research Associateships? If yes, provide details like number of students registered, funding by the university and other sources?**

The University has made a provision of appointment of 15 Research Associates in various departments in its budget. The University does not award the post-doctoral fellowships from its sources. However, it encourages the research scholars to apply for the Post Doctoral Fellowships (PDFs)/Research associateship of UGC, CSIR, and other national and international agencies by providing the necessary infrastructural and laboratory facilities in respective Departments.

Three scholars have been awarded post doctoral fellowship by the UGC.

3.1.10. **What percentage of faculty have utilized the sabbatical leave for pursuit of higher research in premier institutions within the country and abroad? How does the university monitor the output of these scholars?**

- **Sabbatical leave and Study leave for professors**

  Punjabi University is following a system of paying the full salary (Pay and Allowances) to University teachers for a period of ONE year in the entire service for carrying out post-doctoral research overseas.

  1.33% of the faculty has utilized the Sabbatical leave and 7.6% of the faculty has utilized the study leave for pursuit of higher research in premier institutions within the country and abroad. On completion of leave, the members of the faculty are asked to submit the detailed report of their activities and output.

- **Funding for participating in conferences and seminars within the country and abroad**

  Faculty members are encouraged to attend seminars and conferences within the country and abroad, and are readily sanctioned duty leave for the purpose. The University also meets maximum of the expenses related to participation in conferences/seminars as per UGC norms. Faculty visiting abroad are provided a financial aid of Rs 50,000.

3.1.11 **Provide details of national and international conferences organized by the university highlighting the names of eminent scientists/scholars who participated in these events.**

All the University departments conduct seminars, conferences and workshops at various levels – regional, national and international. The University advances seed money to the departments for initial organizational expenses. During the last five years the University Departments have organized following seminars /conferences. (the names of eminent scientists/scholars who participated in these events are available with respective departments).

Table 3.2: Conferences / Seminars organized

Department	Seminar/ conferences
Baba Farid Centre for Sufi Studies	• Sufism and its Relevance in the Society Nov. 2-3, 2011 Punjabi University, Patiala • Sufism and Composite culture of Punjab Nov. 5-6, 2012 Punjabi University, Patiala • Sufi Saints of Undivided Punjab 4-5 March, 2014 • Relation Between Sufism & Sikhism 9-10 December, 2014 • Sufism and Literature 10th August, 2010 Punjabi University, Patiala • Sufi Seminar on Moral Values 17th July, 2012 • Sufism & Indian Society 25th July, 2013
Biotechnology	• Genetically Modified Foods: Current Scenario, January 19-20, 2010 • International Conference on Industrial Biotechnology (ICIB-2012), Nov 21-23 • Medical Biotechnology, 2010
Botany	• National Symposium on *Botanical Researches: present scenario*, Feb 18-19,2010 • National Symposium on *Fungal Biology and Application* (March 21-22, 2011) • National Symposium *on Plant Cytogenetics: New Approaches* (February 23-24, 2012) • National Symposium on *Fundamental and Applied Psychology* (March 25-26, 2013) • National Symposium on*Emerging Trends in*
	• *Botanical Sciences* (February 17-18, 2014) • National Symposium on *Mycological Research-EmergingTrends,Applications and Prospects* (February 23-24, 2015)
Centre for Advanced Media Studies	• International Conference on Changing Paradigms of Media scope
Centre for Diaspora Studies	• International Conference on Indian/ Punjabi Diaspora: Narratives of Migration in Southeast Asia and Far East, Feb. 24 - 26, 2014. • International Conference on Indian/ Punjabi Diasporic Cinema: Narratives of Transnational Experience, March 25 - 27, 2015
Centre For South West Asia Study (Pakistan and Afghanistan	• International Conference on Development and Innovation in the Emerging Economics on 16-18 Nov, 2012 • International Conf. on Human Development and Knowledge Economy on 19-20 Feb, 2013.

	• International Conference on " Socio-Economic Changes in South Asia" on 25-26 September, 2013
Chemistry	• National Symposium on Recent Trends in Chemistry – 2009, January 21-22, 2009 • National Symposium on Emerging Trends in Chemistry – 2010, February 15-16, 2010 • National Symposium on Recent Advances in Chemistry and their Impact on Emvironment-2011, February 15-16, 2011 • National Seminar on Chemistry: An Inter Disciplinary Science, February 15-16, 2012. • National Seminar on "New Frontiers in Chemistry", Feb.15-16, 2013.
Computer Science	• Seminar on Recent Advances and Future Trends in Image Processing (RAFIP 2010) was Organized on March 31, 2010 • Three day International Conference for Information Systems for Indian Languages (ICISIL 2011) organized from March 9 -11, 2011. • Three day International Conference on Recent Advances and Future Trends in IT – 2012 (iRAFIT-2012) organized from March 21-23, 2012. • A seminar on the topic "Research Challenges in the IoT and Big Data", on March 21, 2014
Dance	• National Seminar held in November, 2011 was funded by UGC.
Defense & Strategic Studies	• Organized Three National Seminars - UGC
Development of Punjabi Language	• 25th International Punjabi Development Conference om the topic "Punjabi Bhasha, Sahit te Sabhyachaar: Samkaal ate Bhavikh" in February 3-5, 2009 in which Justice Kuldeep Singh, Former Judge, Supreme Court was the Chief Guest and it was funded by Punjabi University, Patiala • All India Woman Writers Conference in November 3-4, 2009 and it was funded by Punjabi University, Patiala. • 26th International Punjabi Development Conference on the topic "Punjabi Bhasha Vikas de Badalde Pripekh" on January 27-29, 2010 in which S. Baljit Singh Lali, Director Door Darshan, Delhi was the chief Guest and it was funded by Punjabi University, Patiala. • 27th International Punjabi Development Conference on "Punjabi Bhasha Vikas de Navve Pasaar" on January 31, 2011 to February 2, 2011 in which Dr. Iqbaal Singh, Governer of Pondichary was the

	chief Guest and it was funded by Punjabi Uni., Patiala.
	• 28th International Punjabi Development Conference on "Galobali Paripekh vich Punjabi Bhasha Vikaas de Bhavikh-mukhi Drishtikonn" on February 1-3, 2012 in which Dr. Davinder Dayaal Singh Sandhu, Vice Chancellor, Kurukshetra University, Kurukshetra was the chief Guest and it was funded by Punjabi University, Patiala.
	• 29th International Punjabi Development Conference," Punjab di Viraasat: Samkalin Prasangikta" on January 28-30, 2013 in which Professor D.N. Johar, Vice Chancellor, Dr. B.R. Ambedkar University, Delhi was the chief Guest and it was funded by Punjabi Uni., Patiala.
	• Organized seminar on
	• Principal Sant Singh Sekhon: Shataabadi Seminar on Septemper 3-4, 2008
	• Bharti Kavita Ka Chand Shastre (Birth Centenary of Bhai Kahan Singh Nabha) on November 23-24, 2010
	• Shayadat Hasan Manto Shatabadi Smaroh on May 24, 2012
Distance Education	• ICSSR Sponsored National Seminar on "India and SADC : Role and importance of South Africa"-Oct. 9-10, 2009
	• National Seminar on Role of ICT in Distance Education--August 9. 2010
	• National Seminar on Distance Education: Challenges in the New Millennium---Sep. 14-15, 2010
	• Distance Education Institutions in India: Directors' Round Table Conference-------Sep. 15, 2010
	• National Seminar on Emerging Challenges in the Service Sector in India –Oct. 20, 2010
	• Two days National Seminar on Ecological Crises----Sep. 8-9. 2011
	• National Seminar on Role of Library in Distance Education-Sep. 28, 2011
	• National Seminar on Role of Distance Education in Higher Education –Oct. 14, 2011
	• Regional level Golden Jubilee Seminar on Distance Education--Nov. 19,2011
	• Punjabi Conference (National level)----Oct. 4-5, 2012
	• National Seminar by History and Religious Studies sub-unit of the Distance Education Dept.---Jan7, 2013

Education & Community Developmemt Department	• Organized National Conference on ''Quality concerns in Teacher Education'' on 7-8 Feb, 2013. • Organized extension lecture on the topic "Higher Education" on March 25, 2014. • Organized National Conference on ''Higher Education and Civil Society in 21st Century'' on 14-15 October, 2014.
Engineering Dept	• New Age Success mantras Seminar by Virat Chirania was organized during 2013. Mr. Aakash Gautam organized a Seminar on the theme Rise and Shine: motivation for personality development in 2013.
English	• Prophetic Visions and Voices in Poetry: Writing Self and the World (2012) • New Paradigms in Fiction/Non-fiction: Exploring Alterity & Traditions (2013) • South and West Asian Literature and Film : Narratives of Modernity (2014)
Forensic science	• International Symposium on Advances in Fingerprint Identification (Feb. 8-10, 2008). UGC sponsored. • International Symposium on Emerging Trends in Forensic Science (Feb. 22-24, 2010), UGC sponsored. • International symposium on emerging paradigms in Forensic Science (March 7-9, 2013), national funding agencies
Gurmat Sangeet	• Organised Gurmat Sangeet Utsav in March, 2009 with the financial support of Shiromani Gurdwara Prabandhak Committee • Organised Gurmat Sangeet Competition in September, 2009 with the financial support of Panth Rattan Jathedar Gurcharan Singh Tohra Memorial Trust • Organised Gurmat Sangeet Competition & Gurmat Sangeet Utsavs in October, 2010 October, 2011 and September, 2012 with the financial support of Shiromani Gurdwara Prabandhak Committee • Organised Rababi Bhai Mardana Classical Music Festival in December 2009 funded by Punjabi University, Patiala • Organised Rababi Bhai Mardana Classical Music Festival in March 2011 funded by Punjabi University, Patiala • Organised Rababi Bhai Mardana Classical Music Festival in March 2012 funded by Punjabi University, Patiala
Guru Gobind Singh Religious studies	• The Role of Religion in The Personality Development on 22-23 January, 2013 (National) • Acharya Atma Ram Jain Memorial Lecture on 22January, 2013

	• Science and Islam (Extension Lectures) on 04-08 March, 2013 • Philosophy of Religion: Contemporary Concerns on 17 April, 2013. • (World Philosophy Day) • Dharam Grantha Wich Dharam Da Sanchar on 17 December, 2013 • Bhai Nand Lal Goya on 11 March, 2014 (National)
History	• First South Asian History Conference 25-27 October, 2013 Funding Agencies ICHR
Human Genetics	• 2 National Conferences funded by UGC & DST
Journalism & Mass Communication	• 4 National Seminars and 3 International Conferences
Law	• Seminars- 04, Punjabi University, Patiala, State Bank of Patiala,
Library and Information Science	• "Training-The-Trainers Information Literacy Workshop" sponsored by UNESCO and organised by DLIS, Punjabi University, Patiala from 05-07 November 2008. • "Libraries as Transparency Institutions: IFLA Transparency Manifesto Workshop" Sponsored by IFLA/FAIFE and organised by DLIS, Punjabi University, Patiala from 17-18 Nov. 2009. • "National Seminar on Plagiarism and Validation of Research in the Internet Era: Problems and Prospects" organized by DLIS, Punjabi University, Patiala on 24 Feb.2011. • Dr. Amrik Singh Memorial Lecture on 'State of the Nation', 28 July 2011. • "National Seminar on Challenges before Higher Education in India" organized by DLIS, Punjabi University, Patiala on 25 January 2012. • "National Seminar on Ethical Tensions for Academics, Researchers and Publishers in Information Society" organized by DLIS, Punjabi University, Patiala from 31 January-01 February 2012. • "National Seminar on Public Libraries as Community Information Centres" sponsored by Raja Rammohun Roy Library Foundation, and jointly organized by Punjab Library Association (Regd.) and DLIS, Punjabi University, Patiala from 21-22 May 2012. • "International Seminar on Reading in the Internet Era" organized by DLIS, Punjabi University, Patiala on 06 November 2012.

	• "National Seminar on Media and Information Literacy" organized by DLIS, Punjabi University, Patiala from 12-13 February 2013. • DRTC Golden Jubilee National Conference on "LIS Education and Research: Contemplating Persistent and Debatable Issues" jointly organised by the Department, IATLIS and DRTC at DRTC, Bangalore from 20-22 March 2013.
Linguistics & Punjabi Lexicography	• International & national conferences like ICOSAL,SALA, Dravidian Linguistics Association Conference(DLA Funded), • Punjabi Linguistics Association conference
Mathematics	• National Seminar on Mathematics and its Applications held on Dec 20,2012 partially funded by Punjabi University, Patiala
Music	• A two day music festival was organized by the department on 13- 14 March,2009 featuring Prof. Narinder Narula on Sitar and Prof. Suresh Gopal Shrikhande in Vocal Music • Punjabi Folk Festivals were organized at University Campus on 18 Nov 2009, 11 February 2011., 17 February 2012 • Programme of Classical Music concerts organized by collaborating with SPIC MACAY by Smt. Ashwini Bhide, Pune on 9-2-2011, Sh Baldev Narang, Jalandhar on 16-2-2011, Sh. Tejinder Majumdaar, Sh Baldev Narag (Jalandhar) on Dated 15-3-11, Sh. Prabhakar and Sh. Diwakar Bandhu on 4-10-11. Dr. Prateek Chaudhari (Delhi) on 12-3-2012. Pt. Ulhas Telang (Bhopal) on 28-09-2012.,Smt. Anjana Nath (Kolkata) on 29-10-2012. • Performance by renowned artist Sh. Daler Mehndi on 19..3.12 • Two day Punjabi Sangeet Ustav was organized on Jan 31 and Feb 01, 2013 • Prof. Tara Singh Smriti Samaroh was organized in collaboration with dept. of Gurmat Sangeet on Sept 18, 2013
Persian Urdu & Arabic	• Faiz Centenary Seminar (19-20 Dec 2011) with N.C.E.R.T. New Delhi. • Mashahir-e- Urdu Ki Ek Sadi. (7-8 Nov 2012)in collaboration with N.C.P.U.L. Delhi
Physics	• National Symposium on Emerging Trends in Physics for Ionizing Radiations, Aerosols & Material Science (ETPRAM-13) on Dec 13-14, 2013. • One Day seminar on Nuclear Radia-tions and Applications on Feb. 19, 2014

Physiotherapy	• National seminar on the theme "The Role of Physiotherapy in Health Care Delivery: The Need and the Reality" on -22nd-23rdJanuary 2011. • National seminar on theme "Methodology of Physiotherapy Education: Issues & Challenges" on 24th -25th March 2012. • National seminar on theme "Research in Physiotherapy" on 4th March 2013. • One day CME on "New generationtotal knee replacement and post surgical rehabilitation" on 8th Feb 2014.
Political Science	• One National Seminar
Punjab School of Law	• Natonal Seminar organized on March. 17-18, 2010 on the topic Facets of Justice Delivery, Funding: U.G.C. Grant • Natonal Seminar organized on March. 29-30, 2011 on the topic WEAKER Section and Law Funding: U.G.C. Grant.
Punjabi	• Adunik Punjabi Sahit Rupakar: Sidhant ate Rupantran 7-8 Jan, 2009 • Punjabi Bhasha, Sahit, Sabhachar ate media: antar Sambad 6-7 Jan. 2011 • Bhai Kahn Singh Nabha di den 30 Aug, 2011 • Punjabi Bhasha, Sahit, Sabhachar ate media: Adian de Nawen Sarokar 9-11 Jan, 2012 • Punjabi Nari Sahit: Adian de Nawen Sarokar 12-13 Jan, 2012 • Cinema ate Sahit 30 Sep-01 Oct. 2014 • Punjaib Diaspora : Adhian te Adhiapan 12-13 March,2009 • Pehli International Punjabi haiku Conference 8 Nov, 2010 • Pehli Punjabi Diaspora Confernce Punjabi Pehchan : Punjabi Bhasha, Sahit, ate Sabhichar de sandarbh Vich 11-13 Dec, 2012 • Duji International Punjabi haiku Conference 8 March,2013 • Duji International Punjabi Diaspora Conference 5-7 Feb 2014:Moolvaas ate Parvaas: Anter Sambad • The Place of Punjabi Language In the Age of Science and Tecnology15-16 Oct, 2014
Punjabi Literary Studies	• Organized 1st International Punjabi Sahit Conference Samkali Punjabi Sahit, Sarokar te Sambhavanava on Nov. 16-17, 2011 funded by Punjabi University, Patiala • Organized 2nd International Punjabi Sahit Conference Punjabi Kahani : Praptiya te Sambhavanava on Dec. 5-7, 2012.

	• Organized 3rd International Punjabi Sahit Conference Adhunik Punjabi Kavita : Praptiya te Sambhavanava on Nov. 27-29, 2013 • Organized 4th International Punjabi Sahit Conference Punjabi Naval : Praptiya te Sambhavanava on Dec. 15-17, 2014
Sanskrit and Pali	• National Seminars- 05
School of Management Studies	• UGC Sponsored National Seminar on 27-28 March,2014, • UGC Sponsored National Seminar on 14th Nov,2014
Sociology and Social Anthropology	• National Conference on Media and Society at Punjabi University, Patiala held on 15-16 January 2009. • International Seminar on Pre-Colonial Consciousness in Punjab in Collaboration with Punjab Research Group, Manchester, United Kingdom, 2009-2010 • Gender Equality and State Intervention: Issues Ahead 2011-12 • International Seminar on Social Impact Assessment: The Issues on Development, Sustainability and Social Justice on 12,13 and 14 March, 2012
University School of Applied Management	• UGC/NSE/SBOP Sponsored National Seminars dated , 8 Dec. 2014, 5 March 2013, 28 Feb. 2012
Zoology	• International Conference on Entomology from 20th–22nd February, 2009. • National Conference on Environment Degradation and its impact on Mankind from 19th–20th November, 2010. • International Conference on Entomology from 17th–19th February, 2012. • National Conference on Man and Environment from 15th –16th Oct., 2012. • International Conference on Entomology from 21st–23rd February, 2014.

3.2 RESOURCE MOBILIZATION FOR RESEARCH

3.2.1 What are the financial provisions made in the university budget for supporting students research projects?

• **Research support for students**

Most courses in the University have a strong research orientation, with small research projects forming an integral part of the training of post-graduate students:

   o For students of M.Sc. degree in Botany & M.Sc. Biotechnology a provision is made for carrying out dissertation as a part of M.Sc degree. All the expenses related to the completion of dissertation such as field

surveys for collecting samples, chemical analysis, *in-situ* measurements and finally generating data are met from the amount earmarked for each Department in the University Budget for each Academic year.

- o Similarly a research project work is mandatory for students of M.Pharm., M.Tech.
- o The University also offers Ph.D and M.Phil programmes. Admission to Ph.D. programmes is made in July every year through an entrance test. The research progress of the scholars is monitored by a DRB at the department level.
- o Students are also given travel grant to participate and present papers in national conferences.

The Basic Science Research (BSR) scheme is providing financial support to conduct small research projects in science departments (Botany, Chemistry, Human Genetics, Forensic Science, Zoology).

- **University Research Fellowship (URF)**

In addition to this, the University provides fellowships to research scholars (URF) from its own funds. The University has created 54 Research Fellowships with a total expenditure of over Rs. 75 lakhs per annum in the review period. These fellowships allow candidates who do not get other funds to pursue Ph.D programmes.

- **Junior Research Fellowships (JRF)**

A number of research scholars are receiving fellowships either through the selection of national level tests conducted by UGC, CSIR, etc., or through special schemes (RGNF, MANF, INSPIRE, SAP) promoted by UGC and DST, and also under various sponsored research schemes awarded to faculty. There are over 580 paid Ph.D Research scholars conducting research with funding support from the UGC and other agencies Scholars: UGC (JRF/SRF-326, BSR-27, RGNF-42, MANF-98), CSIR (5), ICMR (9), DST (14), ICHR (14), ICSSR (35) and project fellows (10).

3.2.2 **Has the university taken any special efforts to encourage its faculty to file for patents? If so, how many have been registered and accepted?**

Yes, the University has made special efforts to encourage its faculty to file patents. In this regard, the University has framed specific rules for filing patents, for which a committee is specially constituted to look into patent-related issues.

List of patents registered and accepted: 22

Sr. No.	Name of Faculty	Department	Title
1.	Dr. Balwinder Singh Sooch	Biotechnology	A Process for hyper-production of catalase enzyme form novel extremophilic bacterium Geobacilus extremo-catsoochus
2.	Dr. Munish Puri	Biotechnology	A novel strain of Aspergillus for the production of gluconic acid and the process therefore
3.	Dr. Ram Sarup Singh, & Dr. Balwinder Singh	Biotechnology	An improved process for inulinase production
4.	Dr. Ram Sarup Singh	Biotechnology	Production by a color variant strain of *Aureobasidium pullulans*
5.	Dr. Neelam Verma, & Dr. Minni Singh	Biotechnology	A rapid and disposable microbial biosensor for determination of copper in electro-plating industrial effluents based on a potentiometric transducer
6.	Dr Minni Singh and Dr Neelam Verma	Biotechnology	A disposable microbial based colorimetric urea biosensor.Submitted as: Indian Patent: (Application No1871/DEL/2008, application date 08, 2008).
7.	Dr. Neelam Verma	Biotechnology	Construction of Insulin biosensor
8.	Dr. Neelam Verma	Biotechnology	Studies on the development of Novel diagnostic kit based on biosensor for monitoring of Insulin in healthy subjects and hyperglycaemic patients.
9.	Dr. Neelam Verma	Biotechnology	Microbial Arginine Biosensor.
10.	Dr. Neelam Verma	Biotechnology	"DNAzyme based Lead Biosensor".
11.	Dr. Neelam Verma	Biotechnology	Microarray based heavy metal optical biosensor".
12.	Dr. Neelam Verma	Biotechnology	Recombinant whole cell Cadmium Biosensor".
13.	Jaspreet S. Dhau	Chemistry	Flexible Circuits; US-8124226 (2012).
14.	Jaspreet S. Dhau	Chemistry	Flexible Circuit Chemistry; US-8110254 (2012).
15.	Jaspreet S. Dhau	Chemistry	Molecular Coatings on Metal Surfaces; US-8252381 (2012).

16.	Jaspreet S. Dhau	Chemistry	Reduced Porosity Copper Deposition; US-7989029 (2011).
17.	Jaspreet S. Dhau	Chemistry	Flexible Circuits; US-7981508(2011).
18.	Dr. Vishal Goyal	Computer Science	Field Copyright for Software - Hindi to Punjabi Machine translation system
19.	Dr. OP Jasuja	Forensic Science	A spray formulation for detecting latent fingerprints on sticky side of adhesive tape-Indian Patent Application Number 270/DEL/2007--Patent Number 251802
20.	Dr. Gulshan Bansal	Pharmaceutical Sciences and Drug Research	Synthesis of benzimidazole derivatives as angiotensin II receptor antagonists
21.	Dr. Gulshan Bansal	Pharmaceutical Sciences and Drug Research	Formulation& evaluation of brain permeable statin loaded nanoparticles
22.	Dr. Gulshan Bansal	Pharmaceutical Sciences and Drug Research	Formulation& evaluation of brain permeable rosiglatazone loaded nanoparticles

3.2.3 Provide the following details of ongoing research projects of faculty

During the last five years the faculty members of Punjabi University on the individual basis have been granted financial support for Projects by various sponsoring agencies like University Grants Commission (UGC), Department of Science & Technology (DST), Council of Science and Industrial Research (CSIR), Ministry of Environment and Forests (MOEF), Indian Council of Social Science Research (ICSSR), Indian Council of Agricultural Research (ICAR), Indian Space Research Organization (ISRO), etc. The total grants/ funds raised from outside agencies for research amounted to nearly Rs. 30 crores during past five years. The funds received are over Rs 3.66 crores from UGC and over Rs 26.28 crores from funding agencies other than UGC. Year-wise break- up is shown in the following Tables:

Table 3.3
UGC Major/Minor Research Project Allocated to the Faculty Members

Year	Grant Rs.
2009-2010	53,48,400
2010-2011	57,81,700
2011-2012	71,06,120
2012-2013	1,08,35,900

Table 3.4	
Research Project Allocated by other agencies (Non-UGC) to the Faculty Members	
Year	**Grant Rs.**
2008-2009	4,72,52,371
2009-2010	7,18,90,376
2010-2011	5,85,43,194
2011-2012	2,14,24,031
2012-2013	4,06,40,083
2013-2014	2,30,85,460
Total	**26,28,35,515**

The list of on-going non-UGC and UGC Major/Minor Research Project during the last five years is given in **Annexure-I** at the end of this criterion.

3.2.4 **Does the university have any projects sponsored by the industry/corporate houses? If yes, give details such as the name of the project, funding agency and grants received.**

Yes, only a few projects are sponsored by Industry/corporate houses mainly from the various pharmaceutical companies. The details of which are shown under

S. No.	Teacher/Deptt.	Project	Amount Rs.	Funding
1	Dr. Raman Verma, Chemistry	Design, Synthesis and Computational Validation studies of Medicinally Significant New Chemical Entities (NCEs)	36,00,000	IndSwift Labs Ltd., Mohali
2	Dr. Jagbir Singh, Zoology	Evaluation/trails on Fipronil Cockroach Gel	6,75,000	Bayer Corp.Sci Ltd.
		Total	**42,75,000**	

3.2.5 **How many departments of the university have been recognised for their research activities by national/ international agencies (Ex. UGC-SAP, CAS; Department with Potential for Excellence; DST-FIST;DBT,ICSSR,ICHR, ICPR, etc.) and what is the quantum of assistance received? Mention any two significant outcomes or breakthroughs achieved by this recognition.**

As many as eleven departments of the University have been recognised by UGC in CAS/SAP programmes. Six departments also have UGC-BSR funding. Eleven departments have been identified to get grants under FIST programme of DST. Another major research project DBT-IPLS is operative in five departments.

Significant Outcomes:

1. The funds provided by various national agencies enable University to upgrade research facilities within different departments and also build excellent central instrumental facility with latest instruments.
2. The quality of research and number of publications has significantly improved during this period.
3. There is substantial increase in the credibility of the University among various funding agencies for future financial support.

Departments Recognized Under various schemes are :

Departments Recognized Under UGC-CAS

S. No.	Department	Thrust Area
1	Physics	Radiation Physics, Material Science, Theoretical Physics, Astronomy and Space Physics
2	Punjabi	Production of Source Material in Punjabi Language, Literature & Culture, Diasporic Studies, Cultural & Subaltern Studies, Language and Media Studies
3	Economics	Knowledge Economy, Planning and Rural Economy

Departments Recognized Under UGC-SAP

S. No.	Department	SAP Stages	Thrust Area
1.	Botany	DRS-III (now DSA)	Cytogenetics, Mycology & Plant Pathology, Algal Physiology
2.	School of Management Studies	DRS-II	Development of MSMEs w.r.t entrepreneurship development in Punjab
3.	Human Genetics	DRS-I	Human Genetics and Human Growth
4.	Forensic Science	DRS-I	Forensic Biology& Serology
5.	Chemistry	DRS-II	Biologically & Medicinally Significant Compounds, Electro Chemistry.
6.	Zoology &Envir-onmental Sciences	DRS-II	Insect Taxonomy
7.	Computer Science	DSA-III	Image Processing, Natural Language Processing, Networking
8.	Pharmaceutical Sciences and Drug Research	DRS-I	Novel Drug Delivery System and Pharmacology

Departments Recognised Under UGC-BSR

S. No.	Department
1.	Botany
2.	Chemistry
3.	Forensic Science
4.	Human Genetics
5.	Pharmaceutical Sciences and Drug Research
6.	Zoology and Environmental Sciences

Departments Recognized Under DST-FIST

S. No.	Department	Period	Amount Sanctioned
1.	Computer Science	2008-13	25,00,000
2.	Zoology & Environ Sci.	2008-13	19,00,000
3.	Pharmaceutical Sci and Drug Research	2009-14	64,00,000
4.	Physics	2009-14	75,00,000
5.	Botany	2009-14	47,00,000
6.	Chemistry	2009-14	39,00,000
7.	Human Genetics	2009-14	36,00,000
8.	Biotechnology	2010-15	48,25,000
9.	Statistics	2012-17	14,60,000
10.	Mathematic	2012-17	13,00,000
11.	Forensic Science	2013-18	96,00,000

Departments Recognized Under DBT-IPLS

Departments of Biotechnology, Botany, Pharmaceutical Science and Drug Research, Human Genetics, Zoology & Environmental Sciences have obtained over **Rs. 4.50 crores.**

3.2.6   List details of

a   Research projects completed and grants received during the last four years (funded by National/ International agencies).

Total of 63 research projects were completed and over **Rs. 8.99 crores** was received during last four years.

List of UGC Major/Minor Research Project Completed by the Faculty Members

Sr. No.	Name of Faculty Member and Department	Sanctioned Amount
1.	Dr. Gurminder Kaur, Sokhey, Psychology	5,71,200/-
2.	Dr. Gurpreet Kaur, Botany	8,71,800/-
3.	Dr. Rajesh Kumar Goel, Pharmacy	5,92,800/-
4.	Dr. Rajesh Ranjan, Religious Study	3,60,200/-
5.	Dr. Ashok Kumar, Sports Science	5,73,700/-
6.	Dr. Vinay Kumar Gupta, UCoE	9,79,300/-
7.	Dr. Satyabir Singh, Mathematics	4,96,800/-
8.	Dr. Narinder Kaur Multani, Physiotherapy	8,02,600/-
9.	Dr. Mohd. Habib, Urdu	1,00,000/-
10.	Dr. Rajwinder Singh, School of Management Studies	4,64,200/-
11.	Dr. Om Silakari, Pharmacy	10,79,800/-
12.	Dr. Gulshan Kumar Bansal, Pharmacy	6,29,300/-
13.	Dr. R.C. Gupta, Botany	9,29,300/-
14.	Dr. Birinderpal Singh, Sociology	5,41,400/-
15.	Dr. Damanjit Kaur Sandhu, Physiotherapy	5,21,200/-
16.	Dr. Amanpreet Singh, School of Management Studies	1,18,500/-
17.	Dr. Gurmeet Singh Sidhu, Religious Studies	1,30,000/-
18.	Dr. Pushap Pal Singh, Hindi	6,11,800/-
19.	Dr. Yogesh Gambhir, Theatre & T.V.	7,56,200/-
20.	Dr. Mohd. Idris, History	1,25,000/-
21.	Dr. Vikas Rana, Pharmacy	3,59,000/-
22.	Dr. Nirmal Singh, Pharmacy	10,94,300/-
23.	Dr. Baljinder Kaur, Biotechnology	9,45,300/-
24.	Dr .Rupinder Kaur, Zology	10,30,800/-
25.	Dr. H.S. Bhatti, Physics	2,00,000/-
26.	Dr. Amteshwar Jaggi, Pharmacy	1,50,000/-
27.	Dr. Sanjeev Kumar, UCoE	2,00,000/-
28.	Dr. Amardeep Singh, UCoE	6,39,000/-
29.	Dr. Shelinder Shekhon, Commerce	4,71,200/-
30.	Dr. Baldev Singh, Chemistry	6,61,800/-
31.	Dr. Nishan Singh Deol, Physical Education	6,46,200/-
32.	Dr. Sushil Kumar, English	1,15,000/-

List of NON-UGC Major/Minor Research Project Completed during the last five years.

Sr. No.	Department	Faculty Member	Funding Agency	Sanctioned Amount (Rs.)
33.	Bio Technology	Dr. Aruna Bhatia	DST	17,23,000/-
34.	Bio Technology	Dr. Neelam Verma	ICAR/ NAIP	31,62,39,800/- (1,29,00,624/- for Pbi. Univ.)
35.	Bio Technology	Dr. Neelam Verma	DST	23,98,000/-
36.	Biotechnology	Dr. Minni Singh	DRDO	6,00,000/-
37.	Botany	Dr. J.I.S Khattar	CSIR	20,73,467/-
38.	Chemistry	Dr. R.K. Verma	ISLL	36,00,000/-
39.	Chemistry	Dr. A.K. Malik	DST (DAAD)	4,93,500/-
40.	Chemistry	Dr. Jagir Singh Sandhu	CSIR	5,03,250/-
41.	Economics	Dr. Lakhwinder Singh	ICSSR	7,14,875/-
42.	Economics	Dr. Lakhwinder Singh	CDEIS	20,00,000/-
43.	Human Biology	Dr. Monica Singh	DST	13,50,000/-
44.	Pharmaceutical Sci.& Drug Research	Dr. A. K. Tiwari	AICTE	10,00,000/-
45.	Pharmaceutical Sci.& Drug Research	Dr. A.K. Tiwari	DST	64,00,000/-
46.	Pharmaceutical Sci.& Drug Research	Dr. Subheet Jain	AICTE	9,25,000/-
47.	Pharmaceutical Sci.& Drug Research	Dr. Nirmal Singh	CSIR	7,94,912/-
48.	Pharmaceutical Sci.& Drug Research	Head	AICTE	69,12,000/-
49.	Physics	Dr. Darshan Singh	ISRO-GBP	20,00,000/-
50.	Physics	Dr. R.M. Singla	BRNS	19,78,200/-
51.	Physics	Dr. R.C. Verma	DST	40,00,000/-
52.	Physics	Dr. R.C. Verma	DST	75,00,000/-
53.	Social Work	Dr Manjit Singh	SSA	26,45,000/-
54.	UCOE	Dr. Sanjeev Kumar	DST	15,30,000/-
55.	YCOE	Dr. B.S. Sidhu	DST	24,12,700/-
56.	Zoology and Environmental Science	Dr. H.S. Rose	DST	19,00,000/-
57.	Zoology and Environmental Science	Dr. Jagbir Singh	DST	24,43,534/-
58.	Zoology and Environmental Science	Dr. Jagbir Singh	Bayer Corp.Sci Ltd.	6,75,000/-
59.	Zoology and Environmental Science	Dr. Jagbir Singh	MOEF	12,83,170/-

Sr. No.	Department	Faculty Member	Funding Agency	Sanctioned Amount
60.	Zoology and Environmental Science	Dr. Meenakshi	DST	13,80,000/-
61.	Zoology& Envir. Science	Dr. Amritpal Singh	CSIR	15,00,000/-
62.	Zoology& Envir. Science	Dr. M.S. Saini	IARI	10,00,000/-
63.	Library and Information Sci.	Dr. Jagtar Singh	UNESCO	US$ 13,000/-

- **Inter-institutional collaborative projects and grants received**

  o **Department of Computer Science:** The department worked in collaboration with University of Manchester, UK for two research projects:

    ▪ "Web based Transliteration and Translation System between Urdu and Hindi Languages", sponsored under ISIF grants, Australia. (2009-1010) US$ 29,896.00.
    ▪ "Enhancing Communication and Co-operation across South Asia: An ICT Solution to Script Barriers" sponsored under ISIF grants, Australia. (2014-2015). AUD 30,000.00.

  o **Department of Sociology**: Research project on Gender, Culture and Development in collaboration with UNITWIN UNESCO, Boston University, Jamia Milia Islamia and Shanti Niketan, Punjab Research Group Manchester U.K ($1000 P. Year).

  o **Botany Department**: Dr. J.I.S. Khattar & Dr. D.P. Singh have Collaborative Research Project with CSIR-IHBT, Palampur "Diversity Analysis & Biopro-specting of Thermophilic Cyanobacterial Ran North Western Himalayas for Industry Value addition" SERB-DST, New Delhi (Rs. 23,64,000/-).

3.3 RESEARCH FACILITIES

3.3.1. What efforts have been made by the university to improve its infrastructure requirements to facilitate research? What strategies have been evolved to meet the needs of researchers in emerging disciplines?

There is constant process of renewal and upgradation of the research infrastructure in the University to serve current needs. Each University department is well equipped in terms of laboratory equipment, instruments and library facilities for

conduct of research activity by the faculty and students. This is especially so in the science departments, but in the departments of humanities also, necessary facilities are created.

- **Department of Physics** has well-established programmes for research leading to M.Phil. and Ph.D. degrees in specializations e.g. Radiation Physics, Theoretical Physics, Optical Physics, Material Science, Astrophysics, etc. It has been recognized as a department for special assistance (DRS and DSA-I, DSA-II and is now under DSA-III) since 1986 by the UGC under its special assistance programme SAP and under COSIST program of UGC for strengthening of infra-structure. Radiation Physics and Theoretical Physics form major thrust areas of research in the department.

- **Department of Computer Science** has well equipped Digital Image Processing & Natural Image Processing laboratory with latest equipments like Sun workstations, Mat lab, HP-4890 Scanner, Desktop 2280/Genius, MS ON & Wi-Fi system. The infrastructure is widely used for research by the faculty & students.

- **Department of Chemistry** has developed HPLC-UV system & SPME system during 2002-2006. The dept. has also installed Winchrom chromatographic software and Shimadzu double beam UV spectrophotometer. The department is also procuring GCMS, Dye Laser and Spectro fluorimeter from the grant sanctioned under SAP of UGC.

- **Department of Forensic Science** has developed laboratories for protein and enzyme analysis and analysis of photocopied documents.

- **Department of Pharmaceutical Sciences & Drug Research** has added a spectrofluorimeter to enhance the number of compounds that can be analysed in vitro and in vivo. In addition to this, the dept has Automatic dissolution apparatus (ELECTROLAB),Binary HPLC system with PDA detector with computer, UPS and printer, DSC 131 Evo (Setaram), DSC-TGA (Setaram), Extruder, Spheronizer and Pellitizer, Franz Diffusion Cell , FTIR-ATR (Bruker Optik gmBH), HPLC (Hitachi), Langendorff system, Millipore Water Purification System, Multichnl Fluorescence Detector, PCR machine, Tab. Dissolution system with siring sampling system, Teflon Membrane Auto-dedusting Scrubber (Labultima), Texture Analyser, Texture analyzer with working probes + a microscope with photomicrography arrangement has also been added to the existing research infrastructure.

- **Department of Physiotherapy and Department of Sports Science** have well equipped laboratories to carry out teaching & research activities in the area of Exercise Physiology, Biochemistry, anthropometry, Exercise Therapy, Electro

therapy, Biomechanics & health Fitness, Neurophysiology and Clinical Psychology. In addition to this, physiotherapy OPD is also run by the department where research data collection is done by the researchers.

- **Department of Biotechnology** has acquired a Protein Purification System, Thermostatic calculator, Trinocular Microscope, Atomic Absorption Spectrophotometer Micro-processor based, C.O.D. Analyser & Micro Plate Reader Tinocular. In addition to this the department has a Bioinformatics Laboratory. Besides this softwares like Biomed Cache, Chemdraw, T-sar & Genchek TM Standalone License, RT-PCR, Gel Doc System, Genetic analyzer, Electrochemical Work station, Fiber Optic Spectrophotometer, GC with FID/ TCD, HPTLC have also been installed for high quality research.

- **Department of Botany** is covered under ASIST, DRS SAP-II of UGC, FIST of DST and MOEF. It has latest research facilities for quality research. Independent Molecular Genetics lab, Mycology and Plant Pathology Lab, Algal Physiology lab, Internet access lab and sophisticated Instrumentation lab has been established in the Department through funds received under ASIST and SAP Programmes of UGC and FIST Programme of DST. The equipments added in the various laboratories include Digital Microscope with fluorescent attachment, spectrophotometers, electrophoresis unit, and dissolved oxygen analyzer, digital photomicrograph, Atomic absorption Spectrophotometer, Gas Chromatograph and many more.

- **Department of Human Genetics** has well developed research facilities in its human growth and human genetics laboratories.

- **Department of Zoology and Environmental Science is** another department covered under SAP scheme of UGC and FIST of DST. It has a full entomological working station for the identification of insects' species. It also has a PCR lab and computer networking lab for use of the researchers.

Research Laboratories in University Departments

Department of Biotechnology	Department of Chemistry
• Culture Room	• Organic Chemistry Research Lab.
• Bio- Informatics	• Physical Chemistry Research Lab.
• Animal house	• Inorganic Chemistry Research Lab
• Immunology	• HPLC Lab
• Genetics Lab	• SOMCL (Synthetic Organic & Medicinal Chemistry Lab.)
• Fermentation Lab	
• HPTLC Lab	• In Silico Drug Design Lab
• Nano Technology Lab	• Catalytic Hydrogenation Lab.
• Biosensor Technology Lab	• Instrumentation Lab. (SAP-FIST
• Instrumental Lab	• Computer Lab. (SAP)

Department of Botany • Bio-Informatics • Molecular Genetics Lab • Plant Pathology • Plant Physiology • DRS Lab. • Instrumentation Room • HPLC Lab • Culture labs	**Department of Forensic Science** • Instrumentation Lab • Forensic DNA Lab **Department of Human Genetics** • Molecular Lab • Computer Lab **Department of Journalism** • Television and Film Studio
Deptt. of Punjab Historical Studies: • Museum **Department of Punjabi** • Language Lab	**Department of Physics** • Nuclear Lab. • Observatory lab. • Nano-Physics Lab
Department of Linguistics & Punjabi Lexicography • Phonetics Lab. **Department of Theatre &T.V** • Kala Bhawan • Open air theatre • Studio theatre	**Department of Zoology** • DRS Lab • Physiology Lab • Entomology Lab • Parasetology Lab • Cyto Genetics • Environmental Lab
Electronics & Communication Engg. • MATLAB 7 • MULTISIM 8 • COMMSIM • OPT SIM4.7 • QUARTUS II (WITH DSP BUILDER) • XILINX 8.2 ISE	**Sociology** • Workstation for Census Studies, Ministry of Home Affairs, Govt. of India • State Social Impact Assessment Unit for Social Impact Assessment Government of Punjab • Lab. for PG Diploma in Social Impact Assessment

3.3.2 **Does the university have an Information Resource Centre to cater to the needs of researchers? If yes, provide details of the facility.**

Bhai Kahan Singh Nabha Library at Punjabi University, Patiala with all its ICT facilities serves as major Information Resource Center to cater to the needs of the students and researchers. The University has excellent Library resources including e-Journals & other online resources like INFLIBNET. The central library also has a facility of many computer nodes for the members to access information resources available.

In addition to above, the University has a well established computer network and net facility is provided to teachers, students and research scholars.

3.3.3 **Does university have a University Science Instrumentation Centre (USIC)? If yes, have the facilities been made available to research scholars? What is the funding allotted to USIC?**

YES. The University has a University Science Instrumentation Centre (USIC), which is mainly meant to help various Departments in maintaining their scientific equipments thus

keeping instruments functional, USIC also imparts technical know-how to the needy and thereby caters to the need of the entire University.

USIC was established in 1977 and an amount of Rs. 90, 56,100/- has been earmarked for the centre in the university budget.

3.3.4   Does the university provide residential facilities (with computer and internet facilities) for research scholars, post-doctoral fellows, research associates, summer fellows of various academics and visiting scientists (national/ international)?

Yes.

The university has established special residential facilities for research scholars like separate flats and special research wings for students in girl hostels of the University. Visiting academicians and scientists are accommodated in university guest houses (Main Guest House, Waris Bhawan). All these places have internet connectivity and wi-fi facilities and computer with internet connection is also available in the common room. All the research scholars especially of science departments have computer and internet facilities in their research laboratories where they can work till late hours.

3.3.5   Does the university have specialized research centres/ workstation on-campus and off-campus to address the special challenges of research programmes?

Yes, the university has following specialized research centres:

Sophisticated Instruments Centre: Punjabi University, Patiala has established a Sophisticated Scientific Instrumentation Centre is which costly measuring and analyzing instruments are installed as a central facility for all the departments of the University. Research students are benefited with this facility. It also runs training programmes in technical skills for the benefit of research Scholars, scientific community and staff from different departments.   The facilities of this Centre go a long way in improving the quality of research being carried out in the science departments of the university and also of the region.

The Centre houses the following Sophisticated Instruments:

    1) SEM
    2) HPTLC
    3) RTPCR
    4) GEL DOC
    5) FLASH CHROMATOGRAPH
    6) DEEP FREEZER CENTRIFUGE

7) MILLIPORE WATER PURIFICATION SYSTEM
8) MICRO PHOTOGRAPHIC UNIT
9) PCR

The Main University Library (Bhai Kahn Singh Nabha Library), housed in a spacious modern building stocks more than 4,61,704 books, 53835 back volumes of journals, 9175 thesis and subscribes to more than six hundred journals. Latest books are added regularly every year. The library is kept open for 360 days of the year from 8.15 a.m. to 8.15 p.m. every day. The library has a majestic reading hall, which has a capacity for 400 readers where they can sit and consult reference books and other relevant literature. Special reading rooms have been made available for students who wish to work in calm and comfortable surroundings. The library is actively participating in the INFLIBNET programme

Dr. Ganda Singh Punjabi Reference Library: A new specialized wing called the Punjabi Reference Library has been added in the recent past. The aim of this library is to build up a strong collection on Punjab History, Culture, Sikhism, Punjabi Language and Literature. The rich collection of this library comprises of nearly 99,267 documents out of which 57,719 documents approximately have been collected from eminent historians and literatures. These contain newspapers, magazines, books, diaries and manuscripts pertaining to the 19th and 20th century. These documents contain mines of information, which is of immense value to the scholars. 122 important daily, weekly newspapers and periodicals published anywhere in the world are received regularly in this library.

Educational Multi Media Research Centre (EMMRC) located in Punjabi University, is one of the seventeen centres in the country. It has been promoted under the Consortium for Educational Communication (ECE) Programme of Inter-University Centre of University Grants Commission for Countrywide Class Room teaching through educational films being telecast by the Doordarshan. This Centre has a well-equipped full-fledged shooting studio which is being upgraded with the latest digital apparatus. The Centre has already produced more than 64 educational films covering various aspects of different fields of education including art and culture of Punjab.

Computer Centre of the University provides central facility to cater the needs of students, research scholars, faculty and the various wings of the University administration. The Centre has established a local area network and all university Departments enjoy the facilities of Internet and e-mail through this network. The Centre as well as the teaching Departments are equipped with the latest computers and software. The University Computer

Centre has also established another laboratory for Internet access. The laboratory caters to the needs of students, staff and wards of the staff of the University.

Centre for Census Studies and Research Punjabi University, Patiala: CCSR is an Interdisciplinary research centre at Punjabi University Patiala. CCSR is a second workstation in North set up in May 2013 for research on micro-data from census under the MoU signed by Punjabi University, Patiala and Directorate of Census Operations, Punjab. While the census organization does publish important summary indicators and tables form the data collected, the massive data at the unit level have huge potential for in-depth analysis of social-economic-demographic conditions of India's Population. The massive data at the unit level have huge potential for in-depth analysis of social-economic-demographic conditions of India's Population.

Dr. Balbir Singh Sahitya Kendra, Dehradun (Uttrakhand), is the nucleus of advanced study for research in comparative religion, philosophy & culture. There is a rich library with rare books and manuscripts bequeathed by Bhai Vir Singh, Balbir Singh and Prof Puran Singh, the doyens of Punjabi literature. It has facilities for visiting scholars & university researchers to carry out research on comparative religion, Sikh studies and history & culture of Punjab. Research on an important research project *Nirukat*, an etymological dictionary of Sri Guru Granth Sahib is being carried out from this Kendra.

Norah Richards at Andretta, Himachal Pradesh: The university has undertaken the responsibility of maintaining the estate of Norah Richards at Andretta, Himachal Pradesh. Arrangements have been made for faculty members and students who wish to carry out study and research in the fields of theatre and television.

3.3.6. **Does the university have centres of national and international recognition/repute? Give a brief description of how these facilities are made use of by researchers from other laboratories.**

Name of departments working like a National Facility.

An **Advance Centre for Technical Development of Punjabi Language, Literature and Culture** has been established on the Punjabi University, Campus. The objective of the centre is to give fillip to research in the development of Punjabi Language, expand the network of usage of Punjabi, make available E-learning of Punjabi Language globally and help overcome the limitations imposed by scripts (Gurmukhi and Shahmukhi). The most significant achievement of this centre is the development of a

Gurmukhi to Shahmukhi (Urdu) transliteration software. This software named Sangam can be used to convert any Punjabi text typed in Gurmukhi script to Shahmukhi script. A website for online teaching of Punjabi has also been developed by the centre. The website aims to fulfill the long pending demand of Punjabis settled outside Punjab and abroad for learning Punjabi on internet while sitting in their homes.

Centre for South West Asia Study (Pakistan and Afghanistan): The Centre was established in 2007 as UGC's study centre. Presently the centre is focusing on economic, social, political and cultural affairs of India, Pakistan and Afghanistan. The centre is also planning to include other neighbouring countries like Bangladesh, Bhutan, Iran, Iraq and Nepal. The main focus will be on economy, society, polity, cultural affairs and security concerns. This centre has conducted various lectures, seminars and conferences on different aspects such as Economic, Social, Political and Cultural Affairs of South-West Asia.

Centre for Development of Economics and Innovation Studies: The centre (CDEIS) has been established with financial support from the Ministry of Finance, Government of India at Punjabi University, Patiala in April, 2012. The CDEIS is a research organization with worldwide activities and interests. Its purpose is to develop network of researchers working in the areas of development process and policy making in the emerging economies. The Centre is engaged in conducting research studies in the areas of national innovation system and innovation policies, organizes Conferences and workshops as well as field surveys and training programmes. The CDEIS has also started invited lecture series with an aim of enhancing and strengthening the knowledge and research base of the faculty.

In addition to above, the university has established study centres for research under the name of CHAIRS which have been actively working in creation of knowledge. The various chairs established by the University are Sri Guru Tegh Bahadur National Integration Chair, Bhai Gurdas Chair, Bhai Veer Singh Chair, Gurmat sangeet Chair and Maharshi Valmiki Chair.

3.4.   **RESEARCH PUBLICATIONS AND AWARDS**

3.4.1.   **Does the university publish any research journal(s)? If yes, indicate the composition of the editorial board, editorial policies and state whether it/they is/are listed in any international database.**

List of Research Journals published by the University

S. No.	Department	Title of the journal	Editors	ISBN/ISSN number
1.	Development of Punjabi Language	Punjabi University Sabhyachar Patrika	HOD	978-81-302-0258-7
2.	Development of Punjabi Language	Samaj Vigyan Patrika	HOD	978-81-302-0259-4
3.	Development of Punjabi Language	Sahitya Marg Hindi	HOD	978-81-302-0261-7
4.	Development of Punjabi Language	Vigyan De Nakash	HOD	978-81-302-0260-0
5.	Guru Gobind Singh Deptt. Religious studies	The Journal of Religious Studies	HOD	USSN 0047-273543
6.	Guru Gobind Singh Deptt. Religious studies	Nanak Parkash patrika	HOD	978-81-302-0281-5
7.	Historical studies	The Panjab Past and Present	HOD	978-81-302-0324-9
8.	Law	Punjabi University Law Journal	HOD	ISSN 0976-5557
9.	Punjabi Literary Studies	Khoj Patrika	HOD	978-81-302-0306-5
10.	Punjabi	Goshat	HOD	978-81-302-0328-7
11.	Baba Farid Centre for Sufi Studies	Ganjshakar	HOD	978-81-302-0236-5

3.4.2.   **Give details of publications by the faculty:**

A total of 438 books have been published by the faculty of Punjabi University during 2009-2014. Members of the faculty published 5400 research papers of which over 4900 research papers are published in journals of National and International repute. The faculty members have written over 478 book chapters.

The details are given in Table 3.5.

Table 3.5
Year-wise data of the research publications by the faculty

Department/Centres	Books	Edited books	Chapters in books	Papers
Baba Farid Centre for Sufi Studies	-	3	42	21
Biotechnology	1	1	10	210
Botany	3	4	3	314
Centre for Advanced Media Studies	-	3	-	12
Centre for Diaspora Studies	-	2	-	-
Centre For South West Asia Study (Pak and Afghan)	-	1	6	5
Chemistry	-	-	3	169
Civil Engineering	-	-	-	6
Commerce	1	-	-	77
Computer Engineering	2	-	6	260
Computer Science	-	-		135
Dance	-	12	5	28
Defense & Strategic	2	-	8	10
Department of Development of Punjabi Language	-	28	-	70
Distance education	8	8	51	200
Economics	5	5	45	35
Education & Community Service	2	-	8	35
Electronics and Communication Engineering	3	-	-	203
Encyclopedia of Sikhism	6	-	5	11
English	2	3	1	20
Fine Arts	-	-	3	17
Foreign Languages	-	-	-	5
Forensic Science	-	-	-	89
Geography	-	2	4	51
Gurmat Sangeet/ Gurmat Sangeet Chair	8	8	15	144
Guru Gobind Singh Religious studies	15	-	18	123
Hindi	4	1	9	24
History	-	1	2	3
Human Genetics	2	-	-	52
Journalism & Mass Communication	14	3	5	24
Law	10	-	13	74
Library and Information Science	3	2	20	50
Mathematics	-	-	3	102
Mechanical Engineering	8	2	1	214
Music	-	2	3	25
Persian Urdu & Arabic	3	7	3	17
Pharmaceutical Sciences and Drug Research	16	-	14	412
Philosophy	1	-	1	24
Physical Education	-	4	6	25
Physics	3	-	-	158
Physiotherapy	7	1	12	137
Political Science	-	-	1	20
Psychology	1	1	21	80
Public Administration	2	-	10	16

Punjab School of Law	2	-	-	6
Punjabi	12	22	16	22
Sanskrit and Pali	4	-	7	6
School of Management Studies	-	-	-	23
School of Social Sciences	-	-	2	3
Social Work	3	4	-	29
Sociology and Social Anthropology	3	3	11	22
Sports Science	1	-	16	103
Sri Guru Granth Sahib Studies	13	7	12	12
Statistics	-	-	-	60
Theatre and Television	-	1	-	2
Tourism, Hospitality and Hotel, Management	1	-	-	5
University School of Applied Management	3	-	11	96
Women's Studies Centre	7	5	3	25
Zoology and Environmental Science	3	5	10	369
Neighborhood Campus, Maur (Bathinda)	-	-	18	5
Neighborhood Campus Ralla (Mansa)	1	-	-	32
NSMK Institute Advance Studies Malerkotla	-	-	2	-
Regional Centre, Bathinda Deptt. of Law	-	-	6	13
Regional Centre, Bathinda, Deptt. of Education	1	1	7	22
Yadwindra College of Engineering, Talwandi Sabo	5	2	-	405
Publication Bureau Punjabi Univesity Patiala	247	-	-	-
TOTAL	**438**	**154**	**478**	**4967**

The information regarding the details of books, research paper, book chapters, conference/seminar papers published by the faculty members of the different departments of the University along with Impact factor, citation index, SJR, h-index, etc. are available in the Evaluative Reports of the respective departments.

Conference and Seminar Papers

Apart from the above publications, faculty members and students of the University continuously present their research findings at regional, national and international conferences and seminars. Faculty members have been honoured by being nominated as peer reviewers of abstracts and papers, keynote speakers, session chairpersons or invited speakers at many of the national and international symposia.

3.4.3. Give details of

- **Faculty serving on the editorial boards of national and international journals**

Department	Journals
Baba Farid Centre for Sufi Studies	• Dr. Nashir Naqvi - member editorial board of International Magazine 'Tehqeeq' of Punjab University, Lahore. • Dr. Nashir Naqvi -Member Editorial board of Monthly Magazine 'Salooni' Amroha
Biotechnology	Dr. Neelam Verma acted as reviewer for the following journals: o Analytical Chemistry Research o Environmental Technology o Environmental Science and Pollution Research o African Journal of Food Science o Molecular Biotechnology o Journal of Separation Science o BioNano Science o Journal of Medicinal Plant Research Dr. R.S. Singh o Member Editorial Advisory Board (2011-till-date), International Journal of Food & Fermentation Technology. o Guest Editor: Biologia 68(6), 2013. o Guest Editor: Journal of Scientific and Industrial Research 72(9-10), 2013. o Guest Editor: Indian Journal of Experimental Biology 51(11), 2013.
Botany	• Prof. M.I.S. Saggoo- Associate Editor, *Journal of Punjab Academy of Sciences* • Prof. V. K. Singhal - Associate Editor, *Journal of Punjab Academy of Sciences* • Prof. N. S. Atri : Editor, *Kavaka, Journal Mycological Society of India* o Member Editorial Board – *Nelumbo,* Journal BSI, Kolkata and *Mushroom Research*, published by DMR, Solan • Prof. J.I.S. Khattar: *International Journal of Environment Monitoring and Assessment.*
Chemistry	Almost all the faculty member are serving as reviewers of various journals of national and international repute.
Computer Science	• Dr. Dharam Veer Sharma served in Editorial Board of International Journals. • Dr. Vishal Goyal Editor-in-Chief of the International Journal Research Cell: An International Journal of Engineering Sciences
Defence & Strategic Studies	Dr. Kamal Kinger is on editorial board of the Journal `Scholars Voice'

Distance Education	Dr J.A. Khan, Dr. Tejinder Kaur, Dr Pushpinder Kaur, Dr Manjeet Kaur, Dr Kanwaljit Kaur, Dr Amita Kaistha, Dr Sansar Singh, Dr Kavita Rani, Dr Shailinder Sekhon, Dr Kuldeep Kaur are Members and reviewers of Editorial Board of different Journal
English	Five teachers Members of Editorial Board of Journals
Gurmat Sangeet	• Dr. Gurnam Singh is a member of Editorial Board of Department of Puṅjābi Development for 'Baal Vishavkosh' (Punjabi) for the year 2014. • Dr. Gurnam Singh is member of Keertankar selection committee of Shiromaṇī Gurdwara Prabaṅdhak Committee
History	Dr Jaspal Kaur member- Editorial Board
Human Genetics	Dr. S.M.S Chahal, Dr S.P.Singh, Dr. Puneetpal Singh
Journalism & Mass Communication	Dr Walia:Editor Sanchar Pattern Asian Tribune Edminton, Chief Advisor Ajeet weekly, Toronto, New-York, California, Vancouver
Library and Information Science	**Dr. Jagtar Singh** • On the editorial boards of about a dozen peer-reviewed national and international journals, he has also served as Chief Editor for the ILA Bulletin, official organ of the Indian Library Association (ILA) • Served as Guest Editor for the special issue on "Knowledge Organization" of the DESIDOC Journal of Library & Information Technology, 33 (4), 2013 **Dr. Trishanjit Kaur** Member editorial boards of international peer reviewed LIS journals • Program: electronic library and information systems, and • Aslib Journal of Information Management **Dr HPS Kalra** served as Member of Editorial Advisory Board of 'Mousaion - South African Journal for Information Studies' during 2007-2011
Mathematics	Dr. R.K.Nagaich is Chief Editor of the Journal Tensor published by the Tensor Society of India
Mechanical Engineering	• Five teachers Members of Editorial Board of Journals • Five teachers Reviewers of reputed International Journals

Pharmaceutical Sciences & Drug Research	• Dr A K Tiwary: Member editorial board of Journals-
	    o Therapeutic delivery
	    o Journal of Biotechnology and pharmacy

	• Dr Pawan Krishan: On Editorial Board of
	   ○ Journal of Pharmaceutical Education and Research
	   ○ Journal of Pharm Technology, Research and Management
	Reviewer of Journals (Dr A.K.Tiwari):
	• Asscociation of Pharmaceutical Scientists (AAPSJ, AAPS PharmSci. Tech),Indian Journal of Pharmaceutical Sciences (an official publication of Indian Pharmaceutical Association), European Journal of Pharmaceutics & Biopharmaceutics, International Journal of Pharmaceutics., Food Hydrocolloids. Drug Delivery and Formulation. Molecular Pharmaceutics. Pakistan Journal of Pharmaceutical Sciences. Expert Opinion on Drug Delivery Indian Journal of Experimental Biology, Food hydrocolloids., Carbohydrate Polymers., International Journal of Biological Macromolecules

Physics	• Prof. B.S. Sandhu is Reviewer various research papers of National/International Journals. • Prof. Raj Mittal is member of Review committee of Journals App. Rad & Isotopes and Journal quantit. spec and radiative transfer (Elsevier Journals) • Prof. Bhajan Singh is editorial member of two Indian Journals and have evaluated various research papers of National and International Repute. • Dr. Karamjit Singh is Editorial Member Nanosciences and Nano-technologies Published by CSC Journals, Kuala Lumpur, Malayasia.
Physiotherapy	• Dr Narinder Kaur Multani-Member of Editorial board; Exercise Fitness and Health Alliance • Dr Narkeesh Arumugam : Member of Editorial board:Journal of Exercise Science and Physiotherapy; International Journal of Physiotherapy; International Journal of Spine(Spine Universe) Online; International Journal of Physiotherapy & Research; International Journal of Physiotherapy (IJPHY); Research & Reviews: Journal of Neuroscience (RRJoNS); Review of Progress Medical Journal; Science Journal of Medicine & Clinical Trials; IAMR, Journal of Physiotherapy • Dr Sonia Singh - International Journal of Health & Allied Sciences (IJAS); Member of Review Committee:

	Human Biology Review (HRW); Member of Review Committee: International Journal Medicine Research (IJMR)
Punjabi	• Dr. Jaswinder Singh- Member of Editorial Board of Journals • Dr. Satish kumar Verma- Member of Editorial Board of Journals
Punjabi Literary Studies	• Dr. Amritpal Kaur is a member and Editorial Advisor All India Association for Educational Research the Punjab Chapter. • Dr. Amritpal Kaur is a member and Editorial Advisor Magzine Soch Di Shakti (Punjabi).
Statistics	• Dr. D.K. Garg on editorial board of Journal • Dr. Upasana Sharma on editorial board of Journal • Dr. Rohtash Kumar on editorial board of the Journal
University School of Applied Management	• Dr Nidhi walia is Editorial Advisory Member of African Finance & Business Journal(AFBJ), Africa, Journal of Industrial Engineering and Management (JIEM), Spain, Asia pacific Business Review (APBR), India, Reviewer of Journal of Management Development (JMD), UK, World Scientific Engineers Academy of Science (WSEAS),International Journal on Government Financial Management (IJGFM), USA and International journal of Business Research and Management (*IJBRM) Malaysia.*

Zoology & Environmental Sciences	• Prof. Devinder Singh: Member Editorial Boards:
	  ○ Annals of Entomology
	  ○ Indian Journal of Forensic Medicine and toxicology
	• Prof. Jagbir Singh: Member Editorial Board:
	  ○ Annals of Entomology
	  ○ Journal of Entomology, Orinthology
	• Prof. Harbhajan Kaur: Member Editorial Board:
	  ○ Associate Editor, Indian Journal of Envir. and Ecoplanning. DumkaMember of Editorial Board of Journal of Environmental Science, Jaipur.
	  ○ Member of Editorial Board of National Journal of Life Sciences, Satna, (MP).
	• Prof. Shashi Aggarwal: Member Editorial Board and Reviewer:
	  ○ Asian Pacific Journal of Tropical Medicine (Elsevier), China. Online

	o Asian Journal of Microbiology, Biotechnology and Environmental Sciences (AJMBES), India.
	o African Journal of Pharmacy and Pharmacology Online.
	o Journal of Physiology and Patho-physiology, South Africa. Online
	• Dr. Himender Bharti:
	o Chief Editor-Halteres (An International Peer Reviewed Journal of Entomology)
	o Editor-Asian Myrmecology (An International Journal for Study of Asian Ants)
	o Editor Taxon (Formicidae)- National Chemical Laboratories Pune, unit of CSIR,
	• Dr. Amritpal Singh Kaleka:Member Editorial Board:
	o Journal of Zoological & Bioscience Research.
	o Journal of Environmental and Social Sciences.
	o Reviewer: Biotechnology Research
	o Reviewer: Geobios
	o Reviewer and Editorial member: Bioinfo Publications.

3.4.4 Provide details of

- **Research awards received by the faculty and students**

Department	Award
Botany	• Wada Memorial Award: Prof. V.K. Singhal (Japan Mendal Society 2013) • Wada Memorial Award: Prof. R.C. Gupta (Japan Mendal Society 2014) • Dr.V. Agnihothrudu Memorial Award: Prof. N. S. Atri (MSI,India 2014) • Life Time achievement award: Prof. Amarjeet Singh (ICCB, India 2012) • Young Scientist award: Dr. Manish Kapoor (ICCB, India 2012) • Councillor Indian Botanical Society: Prof. J.I.S. Khattar
Biotechnology	• R Chandrashekhar Memorial Award for Best Industry oriented Research Work: Simerjit Kaur (IEEE, 2012). • **Poster presentation awardee (2ʳᵈ position) by Jyoti Saini and Neelam Verma** in ICDLU international conference Sirsa, 2012 under "Biosensor and Nanotechnology". • **Poster presentation awardee (3ʳᵈ position) by Hardeep Kaur and Neelam Verma** in ICDLU international conference Sirsa, 2012 under "Biosensor & Nanotechnology"

	• Dr. R.S. Singh awarded for popularisation of Science during celeberation of "National Science Day 2014", Baba Farid Univesity of Health Sciences, Faridkot, Punjab. • Dr. R.S. Singh awarded BRSI Fellowship 2012 by the Biotech Research Society, India.
Computer Science and Engineering	**International:** The Hindi to Punjabi Machine Translation Software developed by Dr. Vishal Goyal, Dr. G.S.Lehal and Mr. Ajit Kumar (M.M.Modi College, Patiala) has been recognized by University of Edinburg,U.K. for its approach and Quality of results. Thus, giving recognition, they have installed this system on their server. The web link is http://statmt.org/~vishal/hp/index.cgi **National:** The Hindi to Punjabi Machine Translation Software developed by Dr. Vishal Goyal, Dr. G.S.Lehal and Mr. Ajit Kumar (M.M.Modi College, Patiala) has been recognized by Technological Development for Indian Languages, DeitY, MoC&IT, GoI, New Delhi. Thus, giving recognition, they have installed this system on their server. The web link is http://tdil-dc.in/hi2pu/index.cgi
Dance	• Dr.Aarohi Walia-Shaheed Bhagat Singh Award for Youth Services for the Year 2007-2008 (Awarded in 2011)
Defence & Strategic Studies	• Dr. Kamal Kinger and Dr.Umrao Singh were elected as the Vice President and Joint secretary of EC of National Congress for Defence Studies at Allahabad.
Distance Education	• J.A. KhanPunjab Govt. State Award • Harisimran Kaur Awarded by Bhasha Vibhag Patiala • G.S. Brar got Institutional Fellowship 2008-09; Doctoral Award ICSSR & CRRID
Electronics and Communication Engineering	• Dr. M.S. Patterh awarded "SIR THOMES WARD MEMORIAL PRIZE" for research publications in the journal of Institute of Engineers (India) IEI.
Gurmat Sangeet	Dr. Gurnam Singh is facilitated with following Awards and recognitions: • State award – 2010 in the field of music for his valuable contributions by S. Parkash Singh Badal, Chief Minister, Punjab. • Award of Excellence – 2011 by syndicate of Puṅjābi University , Patiala.

	• Gurmat Sangeet Academy Award at Takht Sri Kesgarh Sahib in 2013. • Dr. Gurnam Singh was awarded with Shiromani Gurmat • Sangeet Award by Dashmesh Culture Centre, Guru Ram Das Darbar and Khalsa Reflection at Calgary Canada in 2013 • Dr. Gurnam Singh was specially honored by Punjabi University Alumni Association Canada in 2013
Guru Gobind Singh Religious studies Department	• Dr. Harpal Singh Pannu : Two, Punjab State Award
Journalism & Mass Communication	• Prof. Walia Awarded by Press council of Edminton, Canada. (2013)

Library and Information Science	**Dr. Jagtar Singh**
	• PLA-Prof. M.P. Satija Award for Professional Excellence -2008.
	• He has also been awarded Certificate of Appreciation by UNESCO for outstanding contributions to the Training-The-Trainers (TTT) in Infor. Literacy Workshops 2008-2009.
	• He has served as UNESCO Expert on Media and Information Literacy at Bangkok in November 2010.
	Dr. Trishanjit Kaur
	• Received the SIDA Speaker Grant to present her paper at 74th IFLA Conference and Congress "Libraries without Borders: Navigating towards Global Understanding" from 10-14 August 2008, Quebec City, Quebec (Canada).
	• Invited by UNESCO to participate in Expert Group Meeting on the "Development of Media & Information Literacy Indicators" held in Bangkok, Thailand from 04-06 November 2010.
	Dr. H.P.S.Kalra
	Invited by UNESCO to participate in the International Conference on Media and Information Literacy and Intercultural Dialogue,26-28 June2013,Abuja (Nigeria).
	Dr. Baljinder Kaur
	  "Use of Electronic Resources through Consortia in Technical Institution of India" on 14-16th October 2011, the 9th International Book Conference 2011, University of Toronto, Toronto, Canada.
	  Khushpreet Singh (Research Scholar) received IATLIS Prof. S.P Narang Research Promotion Award 2013.

Music	• Dr. Alankar Singh received the prestigious Ustaad Bismillah Khan Yuva Puraskar by Sangeet Natak Akademi, New Delhi in 2012.

	• Dr. Alankar Singh received Gurmat Sangeet Award by Jawaddi Taksal in 2013. • Prof. Yashpal Sharma got concord Award for Music by Thespian, Theatre Group, Bhatinda in 2011. • Dr. Nivedita Singh received Gurmat Sangeet Award by Jawaddi Taksal in 2009. • Prof. Nivedita Singh was a member of the committee on Virasat-e-Khalsa monument constituted by the Govt. of Punjab. She is also on the governing body of Ishmeet Music Academy, Ldh. funded by the Govt. of Punjab.
Persian Urdu & Arabic	• Dr. Nashir Naqvi, Shiromani Sahetkar State Award by H'ble Chief Minister, Punjab. • Dr. Nashir Naqvi, National Urdu Marsiya Award 2010 at Embassy of Iran, Delhi. • Dr. Mohd. Jameel (State Award)
Pharmaceutical Sciences & Drug Research	Dr Bharti Sapra • Best Oral Presentation Award in National Conference on Innovations in Drug Discovery and Research, Punjabi University, Patiala, 3rd-5th March, 2009. • Second prize in oral presentation in ABVP-Young scientist Competition, in 4th Annual Convention and National Seminar, Association of Biotechnology and Pharmacy, 11-13 November 2010, Thapar University, Patiala
Physics	• Department of Atomic Energy (DAE) recommended Prof. B.S. Sandhu's name for honorary Additional Director to Govt. of India for Gorakhpur (Haryana) and Daroli (Punjab) Nuclear plants on June 17, 2014 • Prof. B.S. Sandhu has been appointed as President of Indian Society for Radiation Physics (ISRP) on 21st Aug. 2013 • Prof. Bhajan Singh has been appointed as Treasurer of Indian Society for Radiation Physics (ISRP) on 21st Aug. 2013
Physiotherapy	Dr. N.K. Multani • IAP Chandigarh Branch Oration Award 2010. • Dr. N S Yadava Oration Award, 2011 Dr Narkeesh Arumugam • Patanjali Award: Achievement award(2011) in the field of Physiotherapy - Bharathiya Vellalar Sangam, Tamilnadu, India • Significant Contribution Award 2013: AIIMS Physiotherapy Conference

	2012- 2013
	• Significant Contribution Award 2013: 51st annual conference of IAP 2013 held at Kala academy Panjim, Goa.
	• Significant Contribution Award 2013:Neuroaxis 2013 AIIMS & IAMR Neuro Physiotherapy Conf 2013
Psychology	• Dr. Damanjit Sandhu National women excellence award 2012
Public Administration	• Dr.S.S.Tiwana received Vijay Shri Award and Certificate of Excellence by India International Friendship.
Punjabi	• Dr. Satish Kumar Verma National Tranlation Award by Sahitya Akademy
	• Dr. Rajwinder Singh, First Position In Teachers' Intec. Software Competition
Punjabi Literary Studies	• Dr. Amritpal Kaur- Bhai Kahan Singh Nabha Award by Language department of Punjab and Maula Baksh Kushta award by Guru Nanak Dev University, Amritsar
	• Dr. Gurnaib Singh- Sahitkaar Gurbaksh Singh Kesari Purskar 2009 by Puadhi Punjabi Sathh, Mohali.
	• Dr. Bhim Inder Singh- Panj Pandav Yaadgar Award.
	• Dr. Mohan Singh Tyagi- Sant Ram Udassi Award, 2010 and Prof. Pritam Singh Rahi Yadgari Janvadh Kavita Purskar 2010
Sanskrit and Pali	• Dr. Indermohan Singh has received Sahitya Shiromani Award, Govt of Punjab
Sociology	• Faculty members on editorial boards of three journals
University Applied management	• Dr. Manjit Singh, Professor was awarded gold medal for the best paper in 66th All India Commerce Conference of Indian commerce association in 2013.
Zoology & Environmental Sciences	Prof. Devinder Singh: • Dr. T. N. Ananthakrishanan Oration Award by DRDO (GOI), 2013 Prof. Jagbir Singh: • Gold Medal By IAES, Hardwar, 2011 • Honarary Fellowship Award by ISAIS, Ludhiana, 2011 • Biotech International Award by NAVBD, Jabalpur, 2011 • Global Vighyanik Award by GPF, 2012 • Rachel Reuben Medal by CRME, Madurai, 2012 • Award of Honour by PUAA, Toronto, 2014

	Prof. Harbhajan Kaur:
	• Prof. J S Datta Munshi Gold Medal by ISEC, 2009
	• Best Publication Award by SADHNA, Nauni, 2012.
	• Honorary Fellowship by BBRS, Patna, 2013
	Prof. Suman Sharma:
	• PVRGKG Memorial Award by UPZS, Muzaffarnagar, 2013
	Dr. Himender Bharti:
	• Distinguished Taxonomists Award by TC NTAT, 2013
	Dr. Gurinder Walia:
	• Outstanding Odonatologist of India by SACO, Nagpur, 2014.)

In addition to above a number of research students from various University teaching departments have received recognition and awards from various national bodies.(For this, please see Evaluative Report of the departments)

- **National and international recognition received by the faculty from reputed professional bodies and agencies**

Department	Recognition
Botany	• Prof. M.I.S Saggoo : Member Expert in the subject field of Botany for major research projects at UGC.
	• Prof. M.I.S Saggoo -Reviewer of bio-data of candidates for the post of Professor in Botany, Karachi University, Karachi, Pakistan
	• Prof. M.I.S.Saggoo: Member selection committee for post of -Professors at HPU, Shimla, Assistant Professors at GNDU, Amritsar
	• Prof. N.S.Atri: Member advisory Committee UGC SAP programme, Osmania University, Hyderabad.
	• Prof. N.S.Atri: Member selection committee for post of -Professors at Jammu University, Jammu and Assistant Professors at PAU Ludhiana and KU Kurukshetra
	• Prof. R.C.Gupta: Member selection committee for post of -Professors at HPKV, Palampur
Centre for Advanced Media Studies	• Prof. Gurmeet Maan is a member of UGC Advisory Committee for SAP-DRS for Jamia Millia Islamia & Tirupati University.
	• Dr Harjit Singh is a member of film writers' association, Mumbai
	• Ms. Amanpreet Kaur is a member of PRSI- Chandigargh Chapter, SAF-South Asian Foundation, New Delhi, SARC Federation of University women

Chemistry	• Dr. Ashok K Malik: Visiting Scientist Alexander von Humboldt Foundation,Bonn, to do research in GSF, Munich , Germany) • Dr. Jaspreet Singh: Visiting Scientist, University of South Florida, Tampa, Fl. and o SRI International, Menlo Park, Ca.(US)
Computer Science	• Dr. Gurpreet Singh Lehal acting as member of Board of Directors of State Bank of Patiala and Chairman IT Steering Committee for SBOP (2014-17). • Dr. Sukhjeet Kaur permanent member of Army Wives Welfare Association. • Dr. Sukhjeet Kaur permanent member Suchna Adhikar Manch
Dance	• Dr. Indira Bali conducted SAMMI workshop at 33rd World International Congress on Dance Research held in Athens, Greece on 21-25 Nov., 2012. • Dr. Indira Bali conducted Dance and Theatre Workshop for students at Pine groove International School (H.P.) • Dr. Indira Bali was invited by NZCC and SZCC under Ministry of Culture for choreographing an event of 250 folk artistes of India in the National Folk Festival "Salangainatham" opening and closing ceremony at Tanjavore (Tamil Nadu) in June, 2009 and was honored by Governor of Tamil Nadu/ Chief Secretary to Governor Punjab. • Dr. Indira Bali was invited by SZCC under Ministry of Culture for choreo-graphing an event of 150 folk artistes of India in the National Island Folk Festival "Attolu Eidu" opening and closing ceremony at Kavaratti Island Lakshdweep in November, 2009 and was honored by chief Minister of Laksdweep. • Dr. Dipanwita Singha Roy selected as expert in international Indian Festival at Vietnam and Japan in October, 2008 being conducted by ICCR, Ministry of External Affairs, Govt. of India. • Dr. Dipanwita Singha Roy selected as expert to serve as U.G.C. visiting fellow for two times in Indira Kala Sangeet Vishwavidyalya, Khairagarh (IKSVV)
Defence & Strategic Studies	• Dr. Kamal Kinger is member UGC Committee • Dr. Kamal Kinger and Dr.Umrao Singh were elected as the Vice President and Joint secretary of EC of National Congress for Defence Studies at Allahabad

Education & Community Service	• Prof. Kirandeep Kaur and Prof. Meenakshi are members of selection committees of different universities and members of inspection committees of NAAC and NCTE
Electronics& Communication Engineering	• Dr. M.S. Patterh, Chairman BOS (ECE) PTU Jalandhar; Executive member of Punjab State Level Admission and Technical Committee for B.Tech. Admissions
Foreign Languages	• Ms.Pratibha and JS Sharma are Panel translator with INSDOC and DESIDOC, New Delhi, for German and Serbo-Croatian. • Mayank Anand-Member of Association of teachers of French in India and Salle de Prof.
Forensic Science	• Prof. O.P.Jasuja, Vice-President, Inter-national Association of Forensic Institutes. • Prof. R.M.Sharma, Member, Explosives standards working group, US Depatt. of Homeland Security, Member, Forensic Questioned Document Examiners Regulatory Authority, Department of Home, Govt. of Punjab. • Prof. Mukesh Kumar, Member, Forensic Questioned Document Examiners Regulatory Authority, Department of Home, Govt. of Punjab
Gurmat Sangeet	• Dr. Gurnam Singh visited Kuljit Kaur Bindra Chair in SikhStudies Hempstead, USA as Visiting Professor. • Dr. Gurnam Singh, Visited Sardarni Harbans Kaur Chair in Sikh Musicology, Hofstra University Hempstead, USA as Visiting Scholar in 2011. • Dr. Gurnam Singh visited Inter-nationally on the invitation of Various International organization and has organized various Gurmat Sangeet Workshops in USA in 2012 • Dr. Gurnam Singh is member of Keertankar selection committee of Shiromaṇī Gurdwara Prabaṅdhak Committee, Amritsar
Guru Gobind Singh Religious studies	• Dr. Rajinder Kaur Rohi: Visiting fellow for Advanced Studies of World Religion at NewYork in 1987, Visiting Professor GNDU in 2011 • Dr. Rajinder Kaur Rohi: member, UGC-expert panel, UGC Nominee Kurukshetra University and Board of studies, • Dr. Harpal Singh Pannu: one abroad IRAN and visiting professor at GNDU, DU, Nav Nalanda University

Human Genetics	• Dr. S.M.S Chahal and Dr S.P.Singh, are Member selection committee for post of -Professors at various Universities of the region
Journalism & Mass Communication	• Prof. H.S.Walia- Member of Board Central University, Jammu, GNDU Amritsar, PTU Jalandhar, GJU, Hisar, CDLU, Sirsa
Law	• Faculty members are members of UGC and various other recruiting Committees, Commissions and Boards. Punjab State Official Language (Legislative) Commission. Member of Advisory Committee of National Translation Mission etc.
Linguistics	• Dr Sumanpreet Kaur Worked as an Expert of Linguistic Terminology for Ministry of Human Resources Development, Government of India, New Delhi, India.
Mechanical Engineering	• Three teachers on board of studies of other universities
Persian Urdu & Arabic	• Dr. Nashir Naqvi 1) Director Sufi Studies Center 2) Member N.C.P.U.L. G.O 3) Convener Sufi Foundation
Physics	• Prof. B.S. Sandhu is nominated by Vice-President of India as member Faculty selection committee for Central Universities, member UGC committees. • Prof. B.S. Sandhu honorary Additional Director to Govt. of India for Gorakhpur (Haryana) and Daroli (Punjab) Nuclear plants • Prof. B.S. Sandhu is President of Indian Society for Radiation Physics (ISRP) • Prof. Bhajan Singh is Treasurer of Indian Society for Radiation Physics (ISRP) • Prof. Parjit S. Singh is member of Board of Studies, M.M.U. Mullana and member of faculty, K.U. Kurukhetra.

Physiotherapy	• Dr Narkeesh Arumugam
	  o Faculty and Invited speaker in Roby Goodrum Seminar, UK& Spain
	  o Expert in Research Commitee Trioflamm DRR–Phonoporesis (Mar. 2014) Cadila Pharmaceuticals Pvt Limited, Dholka,
	  o Expert Selection Committee: Selection Committee, Gurujame-shwar University, Hisar Kurukshetra University, Haryana
	  o Board of Studies Member; Guru Jameshwar Science & Technology University, Hisar (Haryana)(2012 to 2014), Institute of Physiotherapy, MM University,Mullana(2012-14), H.N.B. Garhwal, University Srinagar

	(UA), GGS Inderpresth University, New Delhi ○ Inspection-Expert Member (Physio-therapy):Uttaranchal Technical Uni., Dehradun(2011) ○ Member of Export Committee;Indian spinal cord injuries centre, Vasant Kunj, New Delhi • Dr Sonia Singh & Dr Sandeep Singh Member Board of Studies: Desh Bhagat University, Mandi Gobindgarh.
Psychology	• Dr. Baldev Singh Sandhu and Dr. Vandana Sharma are on various national committees
Punjab School of Law	• Faculty members (Dr Paramjit Singh, Dr Kaushik) are members of various recruiting Commissions/Boards, members of peer team of Bar Counsel of India, National Committee of Education Board
Punjabi	• Dr Satish K Verma: Member, General Council & Punjabi Advisory Board, Sahitya Academy, Delhi (2008-2012) ○ Member, Advisory Board, National Book Trust, India (till 2012) ○ Member, Executive Committee, Punjab Arts Council, Chandigarh (till 2012) ○ Honorary Advisor, Desh Bhagat University, Mandi Gobindgarh.
School of Applied Management	• Prof Manjit Singh was part of UGC committes for shortlisting of major research projects of UGC in 2014 and is member of Research Development council of HPU Shimla, Member Borad of studies VBS Purvanchal University, Jaunpur, DEI, Agra,of NIT Kurukshetra, Autunmous College Mata Gujri College, Fatehgarhsahib.
Zoology & Envir Sciences	• Prof. Devinder Singh: Member, Research Council, Defence Research Laboratory, Tezpur 2013-onwards and Founder Patron, Association of Entomologists. • Prof. Jagbir Singh:Member Program Advisory committee (PAC), Dept. of Sci. & Tech., Govt. of India, New Delhi.,Member Scientific Advisory committee (SAC), CRME, ICMR New Delhi.,Member Advisory committee UGC for SAP-DSA Scheme, NEHU, Shillong, Member Local Projects Advisory Committee (LPAC), Punjab State council for Science &Tech. President, Association of Entomo-logists. President Elect Society for Arthropodology • Dr. Himender Bharti: Honorary technical advisor to Indian Pest Control

	Association (IPCA), India., Advisor-CSBD (Organization for Conservation and study of biodiversity).,Nominated as member of National Advisory Committee for National Workshop on Bio-diversity Assessment held at Mangalore University.
Prof. Harbans Singh Encyclopedia	Akali Phula Singh Award to Dr. Paramvir Singh by Akali Phula Singh Memorial Trust Patiala, on 6 April 2013.

3.4.5 **Average number of M.Phil. and Ph.D. scholars guided per faculty during the last four years. Does the university participate in *Shodhganga* by depositing the Ph.D theses with INFLIBNET for electronic dissemination through open access?**

The average number of candidates guided during last four years per faculty is M.Phil: 1& Ph.D: 0.548. Total 849 Ph.Ds completed during the last four years.

Till date 437 Ph.D theses are uploaded on *Shodhganga.*

3.4.6 **What is the official policy of the university to check malpractices and plagiarism in research? Mention the number of plagiarism cases reported and action taken.**

The university has constituted a special cell to monitor and screen the research work submitted for the award of Ph.D as per the UGC guidelines.

If plagiarism or copying is established, the quantum of punishment to be recommended by the committee, can be any one of the following:-
● the candidate will be asked to revise the Thesis/Project Report
● the Thesis/Project Report will be rejected.
● the candidate will be debarred and also the supervisor will be debarred from supervising Ph.D/M.Phil/Project Report.

3.4.7. **Does the university promote inter-disciplinary research? If yes, how many interdepartmental/interdisciplinary research projects have been undertaken and mention the number of departments involved in such endeavors?**

The University encourages interdisciplinary research collaborations with national/international institutes and the teachers of the same and different departments submit research projects to various funding agencies. Generally faculty members from other departments engaged in interdisciplinary research are co-supervisors.

A DBT funded IPLS project involving five departments, namely,

Department of Botany, Biotechnology, Zoology & Environmental Sciences, Pharmaceutical Sciences & Drug Research and Human Genetics is operative.

3.4.8.   Has the university instituted any research awards? If yes, list the awards.

Not yet

3.4.9.   What are the incentives given to the faculty for receiving state, national and international recognition for research contributions?

The faculty members receiving National and International recognition for research contributions are widely appreciated by the authorities. However, at present there are no material incentives given but these awards and recognitions are given due weightage at the time of Career Advancement/Promotion.

3.5.   CONSULTANCY

3.5.1.   What is the official policy of the university for structured consultancy? List a few important consultancies undertaken by the university during the last four years.

Yes, the University has a well-defined policy for any Department (Institutional/departmental Consultancy) or any Faculty Member (Individual consultancy) to take up a consultancy. This is governed by specific Guidelines for Professional Consultancy in the University Calendar (vol. III).

The Departments of Pharmaceutical Sciences & Drug Research, Physiotherapy, Biotechnology, Psychology, Theatre & Television, Youth Welfare, Botany and Zoology are active in providing consultancy.

3.5.2.   Does the university have a university-industry cell? If yes, what is its scope and range of activities?

The University does not have a separate University-Industry Cell. Some of the departments of the University like Department of Law, Department of Pharmaceutical Sciences and Drug Research, Tourism, Hospitality and Hotel Management, Chemistry, Mechanical Engineering, etc. interact with industry, research bodies and the civil society. The Board of Studies of School of Management Studies also has adequate representation from research and other academic institutions. Their suggestions are incorporated in the curriculum which have made our students more employable

- There are over two dozen Companies which visit the University Campus regularly for recruitment/training of students, mainly from the engineering and management streams
- Many teachers are members of Board of Banks/Management.

List of MoU between Punjabi University and Industry/Institutes.

S. No.	Name of the industry	Areas/Subjects/ Departments
1.	Ind-Swift Laboratories, Mohali (INDIA)	This agreement related to Chemistry
2.	Spice Digital Ltd., Noida	To promote the career development and training requirements of students, exchange of information, publication and information and materials of mutual interest and to provide placement opportunities in Spice
3.	National Stock Exchange of India, New Delhi	The objective of this Agreement is related to modern business and Industry, service sector and financial markets
4.	Gurmat Sagar Trust, Sri Anandpur Sahib (GST)	The objective of this MoU is to initiate collaborative academic and research programmes between the two institutions in the broad areas of Religious Studies
5.	Director of Census Operations, Punjab, Ministry of Home Affairs, Govt. of India, Chandigarh	To establish Workstation for Research on Micro Data from Census at University
6.	Apex Group of Companies, Dubai	To promote academic cooperation in the area of Hotel Management and tourism Management and Engg., Business Management, Sports
7.	Columbia Asia Hospital, Patiala	For treatment /checkup of University Employees and University Students
8.	Maharaja Garden City Association (MGC), Bangkok, Thailand	To increase the joint research in the area of policy dialogue, national, regional and international forum and publication.

3.5.3 What is the mode of publicity of the expertise in the university for consultancy services? Which are the departments from whom consultancy has been sought?

Normally the university does not formally publicize the expertise available for consultancy services. However, some of the departments are conducting public interactions by holding free camps, refresher courses and workshops and through this mechanism they attract the clients. Other modes adopted by the departments are as follows :
- Advertisement through website
- Personal contacts

- Use of Pamphlets / Circulars
- Psychology Camps
- Physiotherapy Camps
- Promote Punjabi Language/ culture through conferences, Seminars, Cultural Fairs etc.
- Society development programmes through NSS

3.5.4. **How does the university utilize the expertise of its faculty with regard to consultancy services?**

The university encourages its faculty to organize and undertake maximum possible consultancy projects in order to enhance the financial resources. The active participation of the faculty in consultancy work improves the employability of the students.

3.5.5. **List the broad areas of consultancy services provided by the university & the revenue generated during the last four years.**

Consultancy

Consultancy is an important activity through which the University can promote and support productive interactions with industry and community. Members of the academic staff of the University are encouraged to undertake contract research, consultancy and other similar work provided that this is not done to an extent which conflicts with the interests of the University

Department of Pharmaceutical Sciences & Drug Research has developed expertise in the following niche areas of research that includes Formulating vesicular dosage forms for trans-dermal delivery, Testing trans-dermal dosage forms for effective permeation across skin (in vitro and in vivo), Bio-safety evaluation of polymers used for designing modified dosage forms, Development of Stability Indicating Assay Methods, Characterization of unknown impurities in drug substances and Evaluation of new drugs for treating memory disorders, ischemia and stroke, anxiety, diabetes, epilepsy and neuropathic pain. The faculty of this department is offering consultancy to industry. The department has offered consultancy to Kemin Industries Inc., Iowa, USA and Bioplus Life Science, Hosur, Karnataka, India

Faculty members of the **Biotechnology** department are acting as consultants to various food processing industries situated in Punjab & HP like Verka Milk Plant, Mount Shivalik Breweries Ltd., NE Fine Chemicals, Rangar Breweries, Pepsi Foods Ltd. and food processing & Citrus plantation industries

Department of Botany is providing free consultancy in mushroom collection and identification to the students of HP University, Tropical Botanical Garden and Research Institute,

Kerela, University of Madras & RD University, Jabalpur

Department of Psychology is running consultancy since 2005. The broad areas in which the department provides consultancy include depression, anxiety, inter-personal problems, pre-retirement counseling, pre-marital and marital counseling, drug addiction, etc.

Department of Zoology has developed latest know- how and expertise in the discipline of taxonomy. Identification services to a number of institutes and universities within and outside India is being extended by the department. It also possesses a large number of reference collections. As many as half a million representatives of various insect species are in the possession of the department.

Department of Theatre & Television offers consultancy to television and film producers in terms of casting, fixing crew members and coordinates in the management of shootings to facilitate and generate employment for the students. Seven such consultancies that include casting of actors, casting & locations, and designing have so far been provided by the department.

Consultancy service to the students and youth coordinators is provided by the **Youth Welfare department** through training camps and workshops.

Department of Linguistics and Punjabi Lexicography offers consultancy in the area of Linguistics & Lexicography and language teaching. Visiting students from other countries are also availing of this service.

The Government of Punjab has given a special project on suicide by farmers and agriculture labourers in Punjab. The Government of Punjab consults different departments of the University from time to time.

Funds Generated

The consultancy work offered by various departments of the University is mainly targeted to address the problems faced by the community and is more of a public service type. Some of the departments, however, have generated finances out of the consultancy work carried by them. For example department of Pharmaceutical sciences & Drug Research generated income of Rs. 3,30,000 appox from the consultancy provided to Kemin Industries Inc., Iowa, USA and Bioplus Life Science, Hosur, Karnataka, India.

Physiotherapy department is running-3 OPDs (General,

Neurological & Sports) in University premises & 1 OPD (Geriatric OPD) in Patiala City - Income generated from all OPDs is more than 80,0000/- per annum.

3.6. EXTENSION ACTIVITIES AND INSTITUTIONAL SOCIAL RESPONSIBILITY (ISR)

3.6.1. How does the university sensitize its faculty and students on its Institutional Social Responsibilities? List the social outreach programmes which have created an impact on students' campus experience during the last four years.

The University conducts regular extension activities and services so that education and research benefit the society at large. The University sensitizes the students and faculty members on the issues of global and national importance by organizing lectures and other activities on the days like AIDS awareness day, Earth Day, Environment day, Biodiversity day, Anti tobacco day, Science day, women's day, Republic Day, Independence Day, Foundation day of the University etc.

- Experts from the University deliver lectures in various schools and colleges, both within the city and outside. They also participate in Radio and TV talks and interviews.

- Some of the activities in this connection include Annual feature of Science day celebrations, cultural festivals, inter-departmental sports meet, etc.

- Camps of meritorious students under the DST- INSPIRE programme have been organized by the departments of Zoology & Environmental Sciences and Botany. These camps familiarize school students with the latest developments in science.

- The NSS Department of the University is very active and has provided a platform to sensitize the students for their social responsibility by organizing 67 Ten Days Camps. The volunteers worked on Awareness of AIDS, Adult Education, Swachh Bharat Abhiyan, Women empowerment, Water Conservation, Air Pollution, Population, Environment, Tree plantation, Cleanliness, Blood Donation and also creating responsiveness for social evils prevailing in the society.

- Women club organizes special workshop, during Summer Vacation normally 21 days long, for children, for their capacity building and skill development. Following the principle of 'No Profit No loss,' the children are trained in different skills like-English Speaking, Sketching and Painting, Singing, Playing musical instruments, Photography and Videography, theatre arts, etc.

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3.6.2   How does the university promote university-neighborhood network and student engagement, contributing to the holistic development of students and sustained community development?

The University has a practice of adopting nearby villages for literacy development, educating the rural masses by the students on various issues, problems of the society and with an intention to develop holistic approach among the students and resulting in sustained community development.

3.6.3.   How does the university promote the participation of the students and faculty in extension activities including participation in NSS, NCC, YRC and other National/ International programmes?

A lot of emphasis is laid on the common ground between faculty and community based programmes by the University through its NSS & Youth welfare departments. These departments play matchmaker between faculty and community leaders. The following designated officers of the University ensure that the students take part in the programs as part of their curriculum:

    1. Coordinator NSS

    2. Director, youth welfare

    3. Dean, Students' Affairs

The Empanelled Training Institution had been established in financial year 2011-12 by the Ministry of Youth affairs and Sports, New Delhi through the MoU signed between Punjabi University, Patiala & Ministry of Youth Affairs & Sports. This institution has trained the NSS Programme Officers of Punjab state. A total of 26 training programmed were organized by the NSS wing and 774 programme officers were trained. The year wise breakup is as under:

S. No.	Financial Year	Number of Training Programme Organized	Number of Participant		
			Male	**Female**	**Total**
1.	2011-12	8	160	97	257
2.	2012-13	5	93	52	145
3.	2013-14	8	161	83	244
4.	2014-15	5	94	34	128
Total		**26**	**508**	**266**	**774**

3.6.4. **Give the details of social surveys, research or extension work, if any, undertaken by the university to ensure social justice and empower the underprivileged and the most vulnerable sections of society?**

The departments in the faculty of Social Science and business management conduct surveys on contemporary problems with which society is confronting and faculty members conduct research studies on the topics related to underprivileged and vulnerable sections of society. Department of Economics has made a significant contribution in providing complete, authentic and documented research on socio-economic aspects of Punjab economy. The findings of various research projects have been used in policy formulation at the national and state level e.g. research studies *(i) on rural students and (ii) on farmers' suicides in Punjab* are the major achievements of the Department for highlighting the plight of these marginalized sections of the society and advising the state to take corrective policy steps for achieving inclusive growth as enshrined in the 12th five year plan of the country.

Based on the findings of the study Punjabi University has taken a lead in filling the widening gulf between the privileged and the under-privileged by imparting technical education to brighter students from rural areas under Golden Heart Scheme. Moreover, Punjabi University has established a number of *constituent colleges, neighbourhood campuses* in the remote rural and backward districts under its jurisdiction for increasing enrolment in higher education. These campuses are specially catering to the educational needs of the rural masses and other marginalized sections of the society by serving a number of professional and technical courses

Influenced by the findings of the studies conducted by Punjabi University, the Punjab Technical University (PTU), Jalandhar established a *"Go Rural Mission"* and Punjab Agricultural University (PAU), Ludhiana started a six-year integrated course leading to B.Sc. Agriculture exclusively for rural students.

Further, *"Rejuvenation of Punjab Economy: A Policy Document"* has helped the state and policy makers in their task of evolving holistic blueprints for future economic development of the State.

Women's' Studies Centre was established in 2009 to promote Women Studies through Teaching, Research, Counselling and Social activism. Its main objective is the pursuit of a comprehensive critical and balanced investigation of the cause of gender disparity. It also aims at revitalizing University education bringing it closer to burning social issues and working towards their solutions.

Women's' Studies Centre has adopted Akalgarh village. Several departments of the University like Department of Psychology, Law, Social work, Health and NSS are working in coordination to provide skill training to children of the village in the field of sewing, computer, beauty parlour, etc.

Overall the University makes efforts to bring "community orientation" in its activities like
- Physiotherapy Clinic
- Psychology Counselling
- NSS
- Faculty Club
- Women Club
- Lok Sangeet Mela
- Flower Shows
- Organizing the Festivals
- Special Lectures on Social evils
- Conferences

3.6.5. **Does the university have a mechanism to track the students" involvement in various social movements/activities which promote citizenship roles?**

The Dean Students' Welfare office keeps a record and track of students active in the social activities. Through the establishment of the Punjabi University Alumni Association, Punjabi University is heading towards the fulfillment of its sacred duty to provide a platform to its former students. The outgoing students are encouraged to register as members of the Association. The records of the members of the Alumni Association are maintained by its office. Many of the departments have constituted their own Alumni Associations which promote to renew bonds among members. Meetings of these associations are held regularly.

3.6.6. **Bearing in mind the objectives and expected outcomes of the extension activities organized by the university, how did they complement students' academic learning experience? Specify the values inculcated and skills learnt.**

In addition to delivering subject knowledge to the students for their career development, the University promotes the inculcation of moral and social values in the students to develop them as good human being and responsible citizens. The University is trying to instil the values of patriotism, social responsibility, honesty and integrity, analytical ability, team spirit, leadership quality, creative & critical ability, organizational skill and developing interpersonal skills keeping in view the objectives and outcomes of extension activities.

3.6.7. **How does the university ensure the involvement of the community in its outreach activities and contribute to community development? Give details of the initiatives of the university which have encouraged community participation in its activities.**

In order to inculcate a sense of social responsibility in all its stake holders, the University encourages the students, staff and teachers to participate actively in various outreach programmes organized by different departments especially through NSS.

3.6.8. **Give details of awards received by the institution for extension activities and/contributions to social/community development during the last four years.**

The NSS unit of Punjabi University was recipient of special award from the Ministry of Youth Affairs & Sports, Government of India for commendable service.

Awards

Indira Gandhi National Award
- Dr. Archana, Asst. Prof. Arya Mahila College, Barnala
- Mr. Hardev Singh, Volunteer, Guru Nanak College, Budhlada

Raj Yuva Pursarkar
- Dr. Archana, Asst. Prof. Arya Mahila College, Barnala

State Award (on the eve of Independence Day)
- Dr. Mohd. Iqbal, Asst. Prof. & Prog. Officer, Govt. College, Malerkotla
- Dr. Mohd. Zameel, Asst. Prof. & Prog. Officer, Govt. College, Malerkotla
- Dr. Tanvir Ali Khan, Asst. Prof. & Prog. Officer, Govt. College, Malerkotla
- Dr. Usha Sharma, Asst. Prof. & Prog. Officer, NSS, S.S.D. Girls College, Bathinda

Sports

Punjabi University was awarded the **Maulana Abul Kalam Azad** Trophy for excellence in sports seven times since the year 2006-07

Department of Youth Welfare

The university has won overall second position in National Inter-University Youth Festival, overall championship in North Zone Inter-University Youth Festival many times, overall

championship in Punjab State Inter-University Youth Festival repeatedly and overall championship many times in All India Inter-University Punjabi Cultural Festival.

Students of Punjabi University have had the privilege of representing India in the festivals of India held in the former USSR, Mauritius, Spain, China, Germany and U.A.E. (Dubai).

3.7 COLLABORATION

3.7.1. **How has the university's collaboration with other agencies impacted the visibility, identity and diversity of activities on campus? To what extent has the university benefitted academically and financially because of collaborations?**

The University has collaborated with several national and international agencies that has helped placing itself on the global map as a premier institute of higher education. These have helped the University, directly and indirectly, to benefit academically and financially. Collaboration has made the University vibrant and it has also helped academically and financially.

3.7.2. **Mention specific examples of how these linkage promote**

Curriculum development: The linkages of the University with industries, business organizations, NGOs and other academic and research institutions have enabled the faculty to keep abreast with the latest developments in their respective areas of interest/ specializations. It has helped the faculty to upgrade and modify their course curricula from time to time.

Internship and on-the-job training: The courses offered by the University in disciplines of engineering, computer science, management, physiotherapy, pharmacy, hospitality, etc. have in-built element of on-the-job training. As a part of curriculum the students have to visit various organizations/ Institutions with linkages for internship and project work. These linkages enable the students to complete their projects and also provide opportunities to interact with leading personalities in their respective areas of interest. This helps them in improving their knowledge and skills.

Faculty exchange and development: Presently most of the institutional linkages with the University primarily entail collaborative research. The faculty comes across newer ideas and techniques to improve their teaching skills and research work.

Research: Faculty visiting advanced labs and research institutions gets access on sophisticated equipments, exposure to

the latest research techniques, statistical tools, databases, etc. This type of exposure greatly help the faculty members to do better research. It has also increased the number of interdisciplinary as well as inter-institutional research collaborations.

Publications: There is substantial improvement in the quality and quantity of publications by the members of University faculty due to the linkages developed with the peer institutions. The collaborative research programmes have resulted in large number of publications with high citation index.

Extension activities: The extension activities have been improved broadly by the linkages established. As per regional and social requirements, the University faculty collaborates with NGOs and other institutions for creating awareness on various issues of social concern, as also for providing vocational training.

Student placement: By the linkages developed by the University departments they have established direct contact. The Departments offering professional programmes have established linkages with different business establishments and the industry. This is a sort of direct contact with the prospective employers. Therefore, students on passing out their respective courses are able to find gainful employment in reputed institutions/ organizations on their own.

3.7.3. Has the university signed any MoUs with institutions of national/ international importance/ other universities/ industries/ corporate houses etc.? If yes, how have they enhanced the research and development activities of the university?

Yes, the list is given below :

List of MoU between Punjabi University, Patiala and other Universities/Institutions (India and Abroad) & Details of MoU

S. No.	Name of the University/Institution	Areas/Subjects/ Departments
1.	Wilkies University, PA, United States of America (USA)	School of Business Studies and Departments of Engineering. MBA Dual Degree and Six Year Integrated B.Tech-MBA programmes have been started this MoUs.
2.	International Water Management Institute (IWMI), Colombo, Sri Lanka	Department of Sociology
3.	National Research Development Corporation, New Delhi	Biotechnology
4.	Ind-Swift Laboratories, Mohali (INDIA)	Chemistry

5.	Indian Council of Agricultural Research, National Agricultural Innovation Projects (NAIP)	Biotechnology
6.	University of Pennsylvania Institute for Advance Study of India (UPIASI), New Delhi (INDIA)	Economics
7.	HNB Garhwal University Srinagar, Uttarakhand (INDIA)	Management, Commerce
8.	American Institute of Indian Studies, New Delhi	Agreement for Programmes Exchange
9.	San Jose State University, United States of America College of Humanities and the Arts	The objective of this Agreement is related to scholarly cooperation, mutual under-standing and the creation of friendly relationships
10.	Directorate of Mushroom Research, Chambaghat, Solan	The objective of this MoU is to promote the Research and Teaching
11.	Indian Institute of Integrative Medicine, Jammu	The objective of this MoU is to explore, extend and strengthen the functional collaboration between the two institutions in the areas of science & Technology
12.	National Stock Exchange of India, New Delhi	The objective of this Agreement is related to modern business and Industry, service sector and financial markets
13.	University of South Pacific, Laucala Campus, Suva, Fiji	To facilitate joint research in the area of Policy dialogue, and publications for national, regional and inter-national for a and capacity building.
14.	Spice Digital Ltd., Noida	To promote the career development and training requirements of students, exchange of information, publication and information and materials of mutual interest and to provide placement opportunities in Spice
15.	Apex Group of Companies, Dubai	To promote academic cooperation in the area of Hotel Management and tourism Management and Engg., Business Management, Sports
16.	Columbia Asia Hospital, Patiala	For providing Physiotherapy service to the patient of Columbia Asia Hospital, Patiala
17.	Office of the Director of Census Operations, Punjab, Ministry of Home Affairs, Govt. of India, Chandigarh	To establish Workstation for Research on Micro Data from Census at University
18.	Faculty of Industrial Education and Technology, King Mongkut's Uni. of Technology Thonburi, Bangkok, Thailand	Joint support to the students' activities, Exchange of faculties and researchers for the purpose of research and academic discussion & exchange of academic information including the research publications
19.	Maharaja Garden City Association (MGC), Bangkok, Thailand	To increase the joint research in the area of policy dialogue, national, regional and international forum and publication

20.	Baba Banda Bahadur Memorial Trust, Dera Baba Banda Bahadur, Distt. Riasi (J&K)	To promote the close linkage in the area of academic activities and research and increase the area of sikh studies
21.	The Post Graduate Institute of Medical Education & Research (PGIMER), Chandigarh (MoA)	For research project "Evaluation of neuroprotective effect of selected natural products in an *in-vitro* glaucoma model"
22.	Central Soil Salinity Research Institute Karnal of the Indian Council of Agriculture Research	To establish a friendly relationship to promote and accelerate the programmes of academic cooperation in the areas of mutual concern
23.	Siam University, Thailand (Agreement)	Agreement for Academic Cooperation and Exchange & development of research and education of both Universities
24.	The Regents of the University of California on Behalf of its Santa Cruz Campus	Agreement for Academic cooperation to further academic, educational and cultural exchange between the two institution
25.	Management Development Institute, Gurgaon, India (with School of Management Studies)	foster advancement in teaching, research, cultural understanding as well as international reputations of both institutions
26.	Debre Birhan University, Ethiopia	To develop Teaching, Research, Cultural
27.	University of the Highlands and Islands, Scotland, UK	Agreement for Programme Exchange
28.	University of the Fraser Valley, Canada	To develop Teaching, Research, Cultural etc.

3.7.4. Have the university-industry interactions resulted in the establishment/creation of highly specialized laboratories/ facilities?

Not Yet.

Any other information regarding Research, Consultancy and Extension, which the university would like to include.

- There are research programmes going on under the UGC and Govt. funding. These are Centre for Diaspora Studies, Centre for Women Studies, Baba Farid Centre for Sufi Studies, Centre for Census Studies and Research, Centre for South West Asia Study (Pakistan and Afghanistan), Centre for Development of Economics and Innovation Studies, etc.

- In addition to above the university has established study centres for research under the name of Sri Guru Tegh Bahadur National Integration Chair, Bhai Gurdas Chair, Bhai Veer Singh Chair, Gurmat sangeet Chair and Maharshi Valmiki Chair.

- The establishment of Sophisticated Instruments Centre at Punjabi University has improved the quality of research

being carried out in the science departments of the university and also of the region. The quality of research and number of publications has significantly improved during this period. A total of 245 books and 5416 research papers have been published by the faculty members of the university. The hard work by the faculty members has resulted in 18 patents.

- There is substantial increase in the credibility of the University among various funding agencies for future financial support

Annexure I (List of Ongoing Projects)

Name of Faculty Member and Department	Name of Project	Sanctioned Amount	Sanctioned letter No. & date
Dr. Gurminder Kaur, Sokhey, Psychology	Role of self reguation, health anxiety and adherence in quality of life amongst coronary heart disease patient.	5,71,200	F. No. 5-69(1)/2008 (HRP) dated 30-12-2008
Dr. Gurpreet Kaur, Botany	Exploitantion of Extremophillic Cyanobacteria for the Producation of Phycobiliproteins as Natural Colours	8,71,800	F. No. 34-164/2008 (SR) dated 02-01-2009
Dr. Rajesh Kumar Goel, Pharmacy	Phytopharmacological investigation of anticonvulsant profile of Ficusreligiosa	5,92,800	F. No. 34-130/2008 (SR) datd 02-01-2009
Dr. Rajesh Ranjan, Religious Study	An analytical study of the Buddhavamsa and the Buddhavamsa - athakatha.	3,60,200	F. No. 5-51(2)/2009 (HRP) dated 31-03-2009
Dr. Ashok Kumar, Sports Science	"Effect of Different Exercise on Glycemic Control & Nerve Conduction Velocity in Type 2 Diabetes"	5,73,700	F.No. 5-51(1)/2009 (HRP) dated 23-09-2009
Dr. Vinay Kumar Gupta, UCoE	Steady state creep in functionally graded cylindrical pressure vessel: Theoretical and finite elements analyses.	9,79,300	F. No. 36-198/2008 (SR) dated 26-03-2009
Dr. Satyabir Singh, Mathematics	Mathematical modeling of mutiaxial creep in composites and functionally gradient materials	4,96,800	F. No. 36-199/2008 (SR) dated 26-03-2009
Dr. Narinder Kaur Multani, Physiotherapy	Impact of therapeutic intervention in patients of Osteoporosis.	8,02,600	F. No. 36-200/2008 (SR) dated 26-03-2009
Dr. Mohd. Habib, Urdu	Guru Nanak in Dialogue with Muslims: An Attempt to Interfaith Understanding.	1,00,000	F. No. 5-69 (3)/2008 (HRP) dated 30-12-2008
	Total (2009-2010)	**53,48,400**	

(Year 2010-2011)

Dr. Rajwinder Singh, School of Mngt. Studies	Simulating supply chain performance: an empirical study of garment relating in india.	4,64,200	F. No. 5-311 (1)/2009 (HRP) dated 07-01-2010
Dr. Om Silakari, Pharmacy	Computer based molecular modeling for designing multi-targeted agents for various inflammatory disorders:syntheis and biological evaluation.	10,79,800	F. No. 37-324/2009 (SR) dated 11-01-2010
Dr. Gulshan Kumar Bansal, Pharmacy`	ICH prescribed forced degradation studies on drugs for rheumatiodartheritis for develop-ment of impurity standards	6,29,300	F. No. 37-323/2009 (SR) dated 11-01-2010
Dr. R.C. Gupta, Botany	Role of 24-epibrassinolide in regulating chromosomal beha-viour and antioxidant defense system of Brassica species under temperature stress	9,29,300	F. No. 37-322/2009 (SR) dated 11-03-2010
Dr. Birinderpal Singh, Sociology	Tribes of Punjab and Intergen-erational Occupational Change	5,41,400	F. No. 5-311 (5)/2009 (HRP)dated 07-01-10
Dr. Damanjit Kaur Sandhu, Physiotherapy	Health Risk Behaviour/Health-Risk Behaviours in Adolescents in Relation to Development Tasks	5,21,200	F. No. 5-311 (2)/2009 (HRP) dated 07-01-2010
Dr. Amanpreet Singh, School of Management Studies	Marketing strategies of hosiery manufacturing companies in the post quota regime	1,18,500	F.No.6-36/2009 (HRP) dated 02-01-2010
Dr. Gurmeet Singh Sidhu, Religious Studies	Interfaith Perspectives of Guru Nanak Thought	1,30,000	F. No. 6-52/2009 (HRP) dated 13-01-2010
Dr. Pushap Pal Singh, Hindi	21st century hindi navel craft : New Dimensions of Theme & Craft	6,11,800	F. No. 5-311(4)/2009 (HRP) dated 07-01-2010
Dr. YogeshGambhir, Theatre & T.V.	Reducing stress through Theatre	7,56,200	F. No. 5-311(3)/2009 (HRP) dated 07-01-2010
	Total (2010-2011)	**57,81,700**	

(Year 2011-2012)

Dr. Mohd. Idris, History	Dynamics of Foreign Trade during the Delhi Sultanate	1,25,000	F. No. 6-96/2010 (HRP) dated 18-03-11
Dr. Vikas Rana, Pharmacy	Microemulsion formulation of primequine: Formulation optimi-zation and evaluation	3,59,000	F. No. 39-168/2010 (SR) dated 27-12-2010
Dr. Nirmal Singh,Pharmacy	Exploring neuroprotective mechanism of ischemic post-conditoing in mice	10,94,300	F. No. 39-160/2010 (SR) dated 27-12-2010
Dr. Baljinder Kaur, Biotechnology	Metabolic engineering of a lactic acid bacterial isolate for biotrans-formation of ferulic acid to vanillin	12,16,820	F.No. 39-271/210 (SR) dated 27-12-2010
Dr. Rupinder Kaur, Zology	Genetics polymorphism of selected candidate genes among alcoholic jat Sikhs of Punjab	10,30,800	F. No. 39-107/2010 (SR) dated 24-12-2010
Dr. H.S. Bhatti, Physics	Synthesis and characterization of II-IV chalcogenide semiconductor nanostructures for phosphor and photo catalytic applications	2,00,000	F. No. 39-984/2010 (SR) dated 12-01-2011

Dr. Amteshwar Jaggi, Pharmacy	Exploring the mechanisms in central sensitization in chronic construction indeed neuropathic pain in rats	1,50,000	F. No. 39-954/2010 (SR) dated 12-01-2011
Dr. Sanjeev Kumar, UCoE	Synthesis of ZNo and TiO2 transparent thin films using sol-gel teachnique and their magnetic characterization	2,00,000	F. No. 39-987/2010 (SR) dated 12-01-2011
Dr. Amardeep Singh, UCoE	Non Conventional computational techniques for modeling and simulating the sequences of bio-molecules database	6,39,000	F. No. 39-881/2010 (SR) datd 12-01-2011
Dr. Shelinder Shekhon, Commerce	The role of higher educational institutions environmental manage-ment future	4,71,200	F. No. 5-299/2010 (HRP) dated 10-02-2011
Dr. Baldev Singh, Chemistry	Synthesis and evaluation of flavonoid derivatives as acetylcho-linesterase inhibitors for alzheimer's disease	6,61,800	F. No. 39-716/2010 (SR) dated 11-01-2011
Dr. Nishan Singh Deol, Physical Education	Relationship of selected biomechanical variables with performance of jump shot with and without opponent in basketball	6,46,200	F. No. 5-220/2010 (HRP) dated 10-02-2011
Dr. Sushil Kumar, English	Mapping History, culture and politics : A study of the selected fiction of Shashi Tharoor and Amitavghosh	1,15,000	F. No. 6-90/2010 (HRP) dated 04-03-2011
Ms. Jagpuneet, Computer Science	Empirical Analysis of Agile Adoption and Acceptance in Indian Software Scenario.	1,97,000	2011
Total (2011-12)		**71,06,120**	

Year 2012-2013			
Dr. Ginjinder Kaur, Human Biology	"To find out the effect of intensive lifestyle modifications on patients with type 2 diabetes mellitus a follow up study"	6,46,800	F.No. 41-153/2012 (SR) Dated 11-07-2012
Dr. Ginjinder Kaur, Human Biology	Approval-cum-sanction for UGC-BSR Research start-up grant for newly recruited faculty at Assistant Professor level in Science Departments.	5,40,000	F.No. 20-1/2012 (BSR)/20-12(12)/2012 (BSR) Dated 30-10-2012
Dr. Harpreet Kaur, Zoology & Environ-mental Sciences	"Myxoaoan Parasites of aqua-culture fish in Punjab"	6,35,800	F. No. 41-7/2012 (SR) Dated 10-07-2012
Dr. Simmi, Dance	"Punjab KeVilupat Ho Rahe Lokh-Natay Sang Ko Punhe: Parchalit Karne Haitu Shodh Priyojna"	3,25,000	F. No. 5-18/2012 (HRP) Dated 24-07-2012
Dr. Balbir Kaur, Chemistry	"Ecofriendly Convergent Synthesis of biologically Signifi-cant Letrocyclic Compounds"	9,12,800	F. No. 41-339/2012 (SR) dated 13-07-2012
Dr. Suresh Kumar, Pharmacy	"Standardization Photochemical and biological studies or abiesp-indrowroyle& calotropisgigantea"	4,96,000	F. No. 41-735/2012 (SR) Dated 23-07-2012
Dr. Dhandeep Singh, Pharmacy	"Synthesis and evaluation of novel mast cell stabilizers as potential therapeutics for Asthma"	1,65,000	F. No. 41-1378/2012 (SR) Dated July, 2012

Dr. A.K. Tiwary, Pharmacy	"Solid Micromulsion Precontrates containing artemether and lumerfantrive : Formulation optimization and evaluation"	9,67,300	F. No. 41-711/2012 (SR) Dated July 2012
Dr. Gurpreet Kaur, Pharmacy	"Vaginal drug delivery system employing natural bio adhesive Polymer(s)"	9,06,800	F. No. 41-706/2012 (SR) Dated July 2012
Dr. Pawan Krishan, Pharmacy	"Exploring the Potential effect of angiotensin – Receptor Blocker and Stain treatment on endothelial functions in patients with inflammatory rheumatic diseases"	7,17,300	F. No. 41-725/2012 (SR) Dated 23-07-2012
Dr. Parlad Kumar, University College of Engineering	"Investigation on Producing Cost effective rapid investment casting using rapid Prototyping technology"	1,40,000	F. No. 41-1314/2012 (SR) Dated 30-07-2012
Dr. Gurmukh Singh, Punjabi	"SamkaliDrishSabhyacharvich Panjabi Pachhan di Sirjankari : SamajikTantar ate bimban da Antar-SamvadHinsa ate Muhabbat di sabhyacharakyad de ParsangVich	5,72,000	F. No. 5-178/2012 (SR) Dated July 2012
Dr. Shelly, Mathematics	"Modeling of rotary vacuum washer using collocation technique"	8,79,800	F. No. 41-786/2012 (SR) Dated 07-07-2012
Dr. Upasana Joshi, Punjabi University Regional Centre for Information Technology and Management, Mohali	"Work Life Balance among Female Executives in Commercial Banks "A Comparative Study of North India"	3,03,300	F. No. 5-498/2012 (HRP) Dated August 2012
Dr. Gian Singh, Economics	"Implementation and Impact of Mahatama Gandhi National Rural Employment Guarantee Scheme (MGNREGS) among the Weaker Sections in Punjab"	5,40,600	F. No. 5-377/2012 (HRP) Dated August 2012
Dr. Raminder Singh, Education Department Regional Centre, Bathinda	"Community Response towards Right to Education Act, 2009 and Challenges of its Implementation.	56,000	F.No. 6-58/2012 (HRP) Dated Aug/2012
Dr. (Mrs.) Raj Mittal Singla, Physics	"XRF techniques for macro-nutrient studies of plants and soils in different contexts"	10,87,800	F. 451-889/2012 (SR) Dated 08-10-2012
Dr. Dhiraj Sharma, School of Management Studies	"Adoption and Acceptability of Internet Banking Services : An Empirical Study of Banking Customers in North India"	2,89,000	F. No. 5-468/2012 (HRP) dated 16-08-2012
Dr. Gurpreet Singh Kang, Department of Physical Edu.	"Biomechanical Analysis of spiking skill in Voleyball"	6,54,600	F.No. 5-433/2012 (HRP) dated 03-08-2012
Dr Minni Singh, Department of Biotechnology	"Agro waste utilization: Separation of nutraceutic beta-cryptoxanthin from kinnow peels	37,67,000	Sanction letter No. DST/SSTP/Punjab/2012-13/12th Plan/40

	and its conversion into aqueous dispersible nanoemulsions for value addition of foods". DST		dated November 19, 2014.
Prof. R.S. Singh Department of Biotechnology	"Development of Processes for production, Downstream Processing and application of oligosaccharide producer enzymes.	75,0000	DBT New Delhi
Dr. Balwidner Singh Sooch	Development of enzymes based eco friendly Bio-conversion process for the preparation of Xylitol.	11,60,000	UGC
Total (2012-2013)		**1,65,12,900**	

(Year 2013-2014)

Dr. Mohd. Habib Guru Gobind Singh Department of Religious Studies	Sikh DharmwichSatkarit Muslim Shakhshiatan di ItihasikParchol	3,76,600	F.No. 5-474/2013 (HRP) Dated 25-03-2013
Dr. Gurmeet Singh Sidhu Guru Gobind Singh Department of Religious Studies	Religion and Peace : An interfaith study of the Scriptures (with special reference to Sri Guru Granth Sahib)	3,81,100	F.No. 5-475/2013 (HRP) Dated 25-03-2013
Dr. Ashok Kumar Malik Chemistry	Development of the Preco-ncentration methods for the speciation of toxic metal ions using chomatographic Techniques	8,53,800	F.No. 42-304/2013 (SR) Dated 25-03-2013
Dr. SeemaGarcha Biotechnology	Amelioration of Post Harvest Horticultural losses through Bacteriocins of lactobacillus origin.	7,22,800	F.No. 42-171/2013 (SR) Dated 22-03-2013
Dr. S.M.S. Chahal Human Biology	Anthropogenetic profile of denotifiedtribesvimuktjatis of Punjab North West India and its Social Implication.	7,76,800	F.No. 42-494/2013 (SR) Dated 25-03-2013
Dr. A.G.K. Sinha Physiotherapy	Surveillance protocol develop-ment and intensive physiotherapy for prevention of lateral ankle sprain in sports persons : A prospective study	1,60,000	F.No. 42-1005/2013 (SR) Dated 25-03-2013
Dr. Gurinder Kaur Walia Human Biology	Approval-cum-sanction for UGC-BSR Research start-up grant for newly recruited faculty at Asstt. Professor level in Science Departments.	5,40,000	F.No. 20-20(12)/2012 (BSR) Dated 30-03-2013
Dr. Puneet Pal Singh Human Biology	Approval-cum-sanction for UGC-BSR Research start-up grant for newly recruited faculty at Assistant Professor level in Science Departments.	5,40,000	F.No. 20-19(12)/2012 (BSR) Dated 30-03-2013

Dr. Karamjit Singh Human Biology	Approval-cum-sanction for UGC-BSR Research start-up grant for newly recruited faculty at Assistant Professor level in Science Departments.	5,40,000	F.No. 20-21(12)/2012 (BSR) Dated 30-03-2013
Dr. Puneet Pal Singh Human Biology	Genetic testing of some neurotransmitter genes for the risk of depression in type 2 diabetic subject of Northwest India	7,41,300	F.No. 42-48/2013 (SR) Dated 12-03-2013
Dr. Geetika Sirhindi Botany	Effect of 28 homobrassindide on oxidative and sugar metabolism and reproductive potential of Brassica junceal under thermal stress	8,97,300	F.No. 42-920/2012 (SR) Dated 14-03-2013
Dr. Rohtash Kumar Statistics	Stochastic modeling and profit analysis of standby systems with server failure.	8,39,300	F.No. 42-34/2013 (SR) Dated 12-03-2013
Dr. Anujot Singh Soni History	Pre-historic and Proto-historic investigations in the Bilaspur, Una, Kangra Districts of H.P &Ropar, Hoshiarpur Districts of Punjab in the New sub-Himalayas	62,500	F.No. 6-45/2013 (HRP) Dated 29-03-2013
Dr. Usha Gupta Chemistry	Solid phaase extraction of pesticides using chemically modified silica nano particles and analysis by Gas chromatography	1,66,000	F.No. 42-316/2013 (SR) Dated 12-03-2013
	Total (2013-14)	**75,97,500**	

CRITERION-IV
INFRASTRUCTURE AND LEARNING RESOURCES

Criterion-IV
Infrastructure and Learning Resources

4.1   **PHYSICAL FACILITIES**

4.1.1   **How does the University plan and ensure adequate availability of physical infrastructure and ensure its optimal utilization?**

The University presents a splendid sight with a complex of beautiful buildings. Sprawling across an area of 312 acres, the main campus is located 9 km away from the din and noise of the city. In addition, 300 acres of the land has been donated by a few village Panchayats for the creation of various Neighbourhood campuses (Satellite Campuses) of the University.

The following are the prominent physical facilities available at the University:

●	Guru Gobind Singh Bhawan
●	Guru Teg Bahadur Hall
●	Punjabi Bhawan
●	Waris Bhavan/Guest House/Faculty Club
●	Audio-Visual Research Centre (EMRC)
●	Meteorology Centre
●	Science Auditorium
●	Arts Auditorium
●	Kala Bhawan
●	Teaching blocks for Arts and Sciences
●	University Library
●	Punjabi Reference Library
●	University Computer Centre
●	Gymnasium
●	Multi-storeyed hostels and academic blocks for engineering students
●	Guru Granth Shaib Bhawan
●	IT Building
●	Sports Buildings and Grounds
●	Kitab Ghar
●	Gol Market – Eateries and Bank
●	Health Centre
●	Observatory
●	Human Resource Development Centre

In addition to the main campus, the University has 13 Neighbourhood Campuses/ Regional Centres and 11 Constituent Colleges. Making an objective evaluation, the Planning

Commission of India had sanctioned Rs. 10 crores for the development of rural Neighbourhood Campuses. The University on its part has allocated another Rs. 10 crores for raising new buildings and infrastructure to meet the new demands of the students/faculty and for the needs and requirements of the evolving world of liberalization, privatisation and globalisation.

The outline of the infrastructure at the main Campus can be viewed from the details below:-

Administrative Buildings, Roads & Support Services:- The University has a large complex of Teaching and Administrative Blocks, Guest Houses, Hostels for boys and girls, Market Complex, Resident Houses, both for teaching and non-teaching staff, Dispensary, Faculty Club, Auditoriums, etc., connected through a stretch of roads with a total length of about 20 kms. Out of the 312 Acres of land, at least 50% is developed into beautiful landscaped gardens etc. It has a beautiful botanic garden**,** which is considered one of the best in Asia.

Sewage Disposal System: - The University is well equipped with its own Sewage Treatment system. The treated water is now being utilized for gardening and irrigation purposes. The University also has its own storm water drainage system to avoid stagnation of water during the rainy season. The University has recently installed a STP Plant costing Rs.1,84,00,000/-.

Sub-Stations for supply of Electricity: - As per PSPCL rules, the University has one point supply system on which the electricity is supplied by the PSPCL. It has its own high-tension distribution system and four substations. Twenty-four hours power supply to the campus is maintained. To ensure proper supply of electricity to its essential services, the University has two 500 KVA Gen set, one 320 KVA Gen set & one 110 KVA Gen set and 70 KVA Gen set installed at different locations. The maximum duration of tripping of electricity at the campus is not more than 10 minutes.

Telecommunication Network: -The University has the state of the art ISDN Tederon Exchange of 2048-line capacity. Out of this, at present around 600 lines are in operation. It has direct inward dialling facility to maintain the secrecy of the call and to reduce the calling time. The important functionaries of the University are provided with Mobile Telecommunication to ensure efficient working.

Transportation System:- The University owns a fleet of 23 vehicles, which include 5 buses, 12 light vehicles, and 6 special vehicles reserved with secrecy branch to carry examination related material. The buses are used to ferry students and

employees and their wards for their movement from the campus to the city and back. The buses are also used for short duration educational tours. The University intends to purchase two more buses in the current financial year. Presently, insufficiency is met by deploying transport on contractual basis as per demand. Besides this, different departments of the University and Neighbour-hood campuses own 21 vehicles to fulfil their local requirements.

Tube wells & Water Reservoirs for water supply: - For supply of drinking water and landscaping, the University has installed 5 tube wells of 30 HP capacities and reservoir of sufficient volume with its own chlorinating system to provide potable hygienic water.

Canteens: - At present, there is Coffee House, three canteens, Nestle Coffee Bars, Milk Bar, Food Joint, Fast Food Points, One common man food junction in the Gol Market and two fresh juice Bars. A subsequent number of eateries, stalls for daily needs have been set up in the Academic Block of Engineering Departments. Similar type of facilities exist in all the Neighbourhood Campuses/Regional Centres.

Guest House: - University has two Guest Houses. The Main Guest House has twelve rooms fully furnished and air-conditioned. It has a big lounge and dining hall to accommodate 100 to 150 persons during seminars and other conferences. It has lush green lawns to add to the beauty of Guest House which has Wi-Fi facility also. The second Guest House, Waris Bhawan, named after the great Punjabi poet Waris Shah, has well-furnished 22 rooms (12 AC and 10 Non-AC) along with other facilities such as big Dining hall, Lounge, TV room etc. for the comfortable stay of the guests. A separate Guest House of UGC-HRD centre is also available in the main campus. In addition to these, the University has Guest Houses at Talwandi Sabo and Dehradun, and Holidays Homes at Anderata (Palampur, HP) and Shimla.

Academic activities: The University has established 68 teaching and research departments in sciences and humanities. To promote technical and professional education, a University College of Engineering (UCoE), now segregated into five different engineering departments, was established in 2003 on the University campus, which now has become one among the best sought-after engineering institutes in the region. Notably, the 10 storey building raised for the college is the second highest structure after Punjab Civil Secretariat in Chandigarh. Two other eight-storey buildings, to be used as hostels, have been completed in a record period of about 15 months. Recently, the University has introduced a few new Departments on the Campus for new

Courses, with separate independent buildings e.g., Hotel Management Department & Centre for Advanced Media Studies.

The University in recent years has seen an unprecedented upswing in the introduction of new faculties, new courses and new infrastructure, increase in the number of affiliated colleges and regional campuses, in addition to launching of an innovative concept of Neighbourhood Campuses in the Malwa hinterland. The strength of students on the University Campus has increased from 4,000-plus to over 14000 during the last about five years with over 1051 teachers doing the task of imparting education to them. The number of affiliated colleges to the University now is **247**. Guru Kashi Campus, Damdama Sahib and Regional Centre, Bathinda have become the nucleus of professional courses. Yadavindra College of Engineering at Damdama Sahib has been particularly set up to cater to the needs of the deprived sections of the society.

Following the principle of all-inclusive development, the University has launched a campaign for the uplift of rural society through various means. It all started with the opening of Yadavindra College of Engineering at Talwandi Sabo in 2004 and Neighbourhood Campuses in 2006 in six remote villages of Rampura Phul, Jhunir, Karandi, Ralla and Delha Sihan, existing in the most backward districts of Bathinda, Mansa and Sangrur. The most significant aspect of this magnanimous venture is that the Panchayats of these areas have donated over 300 acres of land costing more than Rs. 30 crores voluntarily. This is a marvel in a State where farmers resort to violent protests against the acquisition of their lands despite financial compensation paid by the governments of the time. Spread over 84 acres of land and occupying 3.75 lakh sq. ft. of covered area, YCoE, Talwandi Saboo has already over 1600 students on its rolls for its various courses which include M.Tech., MCA, six-year B.Tech., integrated Courses after 10th class and four-year B.Tech. with facilities to pursue these courses up to the doctorate level. The University has already spent over Rs. 25 crores for creating state-of-the art infrastructure which includes seven computer labs, mechanical engineering workshops, up-to-date electronic labs, 5 Mbps radio-link internet connectivity, boys and girls hostels, teaching flats, well-stocked library, playfields and Language Lab to improve the communication skills of the rural students. The University has already spent Rs. 1.10 crore for the renovation, furnishing and making the latest equipment available to the students of the Neighbourhood Campuses.

The University has achieved another milestone by establishing a separate Department of Gurmat Sangeet and a Keertan Repertory to produce qualified professional keertan-kaars for reciting raga-based Gurbani on string instruments.

The University has taken giant leaps forward in respect of acquiring new land and raising new structures. Even more significant is the fact that it all has been done without any grant extended by the government to the University for this purpose.

In addition, the University maintains the estate of Dr. Norah Richards at Andherata (Palampur) in Himachal Pradesh, which she donated to Punjabi University.

Co-curricular activities: Please refer to section 4.1.8 for details.

Sports: Please refer to section 4.1.8 for details.

To sum up, making provision for the buildings with sufficient furniture and seating capacity for students as well as teachers, equipped with latest audio-visual teaching aids and other equipments, state-of the art laboratories,and internet connectivity to promote research oriented activities has been the prime focus of the University to cater to the additional demand of the academic group.

4.1.2 **Does the University have a policy for the creation and enhancement of infrastructure in order to promote a good teaching learning environment? If yes, mention a few recent initiatives.**

Yes. The University has raised teaching blocks, hostels, gymnasiums, special teaching blocks, Sophisticated Scientific Instrumentation Centre, guest house facility for HRD centre and many more on the campus. It has earmarked special budget provision for maintenance of buildings, construction of roads, purchase of furniture, equipment, computers and transport facility.

Please refer to Table A & B (p. 170-171) for brief description. (Note: Many departments have declared the detailed descriptions and equipment and other facilities generated in their respective departments separately.)

A few of these initiatives are highlighted below:

- The University has extended teaching blocks for engineering departments in two phases. It has established Centre for Advanced Media Studies, Gurmat Sangeet Bhawan, Baba Farid Sufi Centre, M.B.A. and IT building, Hotel Management & Hospitality building. Pharmaceutical Department and a Class Room Block in the Arts Block have also been extended.

- It has also come up with new Examinations building, Fitness

Centre building, Sri Guru Granth Sahib Bhawan, World Punjabi Centre.

- Hostel facilities have been extended by setting up multi storeyed Boys Hostel (Baba Banda Singh Bahadur) for University College of Engineering, Multi storeyed Girls Hostel (Mai Bhago Hostel) for University College of Engineering, C.C. Sports hostel for Girls, C.C. Sports hostel for Boys, Working Women's Hostel, Boys Hostel (Baba Banda Singh Bahadur) for University College of Engineering (2nd Phase B & C-block), Women's Hostel (U.G.C. Aided) and a 100 seated Hostel for Scheduled Caste Girls.

- Many new approach roads, parking areas have been constructed for the newly constructed buildings.

- Fitness Centre building, Sri Guru Granth Sahib Bhawan are the noteworthy facilities created on the Campus.

- Holidays Homes have been renovated and furnished well.

Table-A
(Funded by University)

Sr. No.	Name of Buildings	Total cost (Rs.)
1	Engineering College (Teaching block) (Phase-I)	15,15,91,000
2	Engineering College (Teaching block) (Phase-II) including Roads	16,38,94,000
3	Media Centre (Phase I)	1,30,87,000
4	Gurmat Sangeet Bhawan	20,86,900
5	Baba Farid Sufi Centre	25,76,000
6	Revaluation Building	3,52,61,400
7	M.B.A. and IT Building	15,12,79,000
8	Hotel Management & Hospitality Building (Ph.-II)	1,45,84,000
9	Fitness Centre Building	2,12,63,000
10	Guru Granth Sahib Bhawan	2,20,08,000
11	Pharmaceutical Deptt. (Phase-II)	2,46,12,000
12	World Punjabi Centre	35,18,400
13	Class Room Block	38,42,800
14	Multi storeyed Boys Hostel (Baba Banda Singh Bahadur) for University College of Engineering. (Block-A)	5,95,14,600
15	Multi storeyed Girls Hostel (Mai Bhago Hostel) for University College of Engineering. (Block-A)	5,95,14,600

Sr. No.	Name of Buildings	Total cost (Rs.)
16	C.C. Sports Hostel for Girls	1,74,47,400
17	C.C. Sports Hostel for Boys	1,74,47,400
18	Working Women's Hostel	2,38,66,200
19	Boys Hostel (Baba Banda Singh Bahadur) for University College of Engineering (2nd Phase B & C-block)	12,81,13,000
20	Media Centre (Phase II)	70,33,000
21	Const. of Seminar Hall with Media Centre	19,96,000
	Grand Total	**92,45,35,700**

Table-B
(Partially Funded by Outside Agencies)

Sr.No.	Name of Buildings	Total Cost	Grants received
1	Guest house for Academic Staff College	2,04,00,245	75,00,000
2	Sophisticated Instruments Centre	1,43,34,657	1,17,23,100
3	Women's Hostel (U.G.C. Aided)	75,97,790	75,00,000
4	100 seated Scheduled Caste Girls Hostel	2,06,04,818	2,00,00,000
	Grand Total	**6,29,37,510**	**4,67,23,100**

4.1.3 **How does the University create a conducive physical ambience for the faculty in terms of adequate research laboratories, computing facilities and allied services?**

Many facilities have been provided in this regard. Among these facilities created in the University Scientific Instrumentation Centre (USIC) and Sophisticated Instruments Centre (SIC) are notable. For details of computing facilities, please refer to section 4.3. A detailed note on various facilities for allied services has been included in section 4.1.2. The detailed descriptions and facilities generated in the respective departments (under the UGC-SAP, DST-FIST, IPLS) have been given separately by them.

The objective of the USIC scheme has been well achieved. With such a large number of science departments and with such a large spectrum of instruments starting from a simple regulated power supply to computer controlled Spectrophotometers, it would have been very difficult for the science departments to maintain their equipment. USIC has been providing the facilities of

maintenance, servicing, calibration of the science lab equipment. USIC also helps the research students in design and development of new equipment required for their research studies. USIC has also been providing technical courses to the Lab staff, thus, making them capable of maintaining and servicing the new generation equipment coming in their labs. There are following workshops in USIC which are well equipped to cater to the needs of different science laboratories:

Mechanical Shop

1. Welding Machine
2. Milling Machine
3. Lathe Machine
4. Drill Machine
5. Grinder Heavy duty
6. Band saw Machine
7. Planner

Glass Blowing Shop

- Glass Cutter Machine
- Glass Blowing Lathe
- Grinding Machine

Electronics Shop

- Beta Gamma Radiation Meter
- Multichannel Analyser
- Liquid Scintillation System
- Oscilloscopes
- Digital Multimeters
- Analog Multimeters
- Function Generators
- Audio Signal Generator
- Digital Frequency Generator
- Microprocessor Development Kit
- Microcontroller development Kit
- Soldering/De-soldering station-Meter
- Pulse Generators
- RF/AF Signal Generator
- Ultra Centrifuge Machine
- Digital IC tester
- Power Supplies

Optics Shops

- Polishing and Grinding Machines
- Optical Bench

- Bevel protecto-meter
- Dial Gauge
- Micrometres
- Vernianmeter
- 35 mm Camera
- Hand Edging Machine
- Check Light

The facilities provided in **Sophisticated Instruments Centre** are tabulated below. There are four labs IPLS-I, IPLS-II, IPLS-III and SEM lab besides wet lab facilities, which house the following equipments for use. The analysis of samples is done at nominal charges.

Sr. No.	Name of Instrument	Room No.
•	Micro-Photographic Unit	G-6
•	UV/Vis Spectrophotometer	G-6
•	Ultra Centrifuge	G-6
•	Spectrafluoro-meter	G-6
•	Laminar Air Flow	G-6
•	Ultra Freezer (-80ºC)	G-6
•	Weighing Balance (1)	G-7
•	Water Purifying System	G-7
•	Binocular Microscope	G-7
•	pH Meter	G-7
•	Hot Air Oven	G-7
•	Scanning Electron Microscope	G-8
•	GEL Documentation System	G-9
•	HP TLC	G-9
•	Flash Chromatograph	G-9
•	PCR	G-9
•	Real Time PCR	G-9
•	REMI Centrifuge	G-9
•	Water Bath	G-9

4.1.4 **Has the University provided all departments with facilities like office room, common room and separate rest rooms for women students and staff?**

Yes.

4.1.5 **How does the University ensure that the infrastructure facilities are disabled-friendly?**

To take care of differently abled students and staff members, the University has constructed ramps to approach a building comfortably. As a policy matter now onwards, the University is providing lifts, internal ramps and special types of toilets, etc. for

such persons in newly constructed buildings as Examinations Building, Academic Blocks of Engineering departments, Multi-storeyed Hostels, IT Building and Main Library.

4.1.6   **How does the University cater to the requirements of residential students? Give details of Capacity of the hostels and occupancy:**

The University offers three types of hostels:
- Number of Boys Hostels = 7 Total occupancy = 2696
- Number of Girls Hostels = 8 Total occupancy = 2887
- International Hostel (only for men)

International Hostel (only for men): It has a capacity to facilitate 80 students and presently there are 48 students housed therein. The rooms are furnished with linen. A separate security staff is employed in this hostel. The students have the choice to occupy air-conditioned or cooler rooms.

Recreational facilities in Hostels:
- Hostels are provided with free Wi-Fi facility, RO for drinking water, TV in common rooms and a gymnasium in every hostel.
- Each hostel has an air-conditioned study room to facilitate comfort in summers.
- Hostels have facilities for indoor games as table tennis and outdoor badminton and volleyball courts.
- There are guest rooms in the hostels for parents and guardians to visit their wards.
- Every girls' hostel has been provided with a beauty parlour.
- Laundry and ironing facility is provided in every hostel.
- A separate women security force is employed in girls' hostels.

As a part of best practices, every hostel offers the students to join any of the following clubs to enhance their skills: Service Learning Club, Literary Club, Sports Club and Cultural Activities Club. Intra- and Inter hostel competitions of these activities are also conducted.

Broadband connectivity/ Wi-Fi facility in hostels

The Internet facility to the residential students in the University is made available by linking them to central backbone either through wired links or Wi-Fi nodes. Majority of the students have BYOD type devices (Laptops/ Smart Phones) available with them and they are categorised as powerful users demanding heavy voice, video data based traffic. All the users in the University are authenticated through Cyberoam Firewall. All Wi-Fi users have to register their laptops through Hostel Wardens with UCC.

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Manageable WAPs (Majority DLink) are being used to statically bind these laptops. Presently, five Wireless Controllers installed in UCC check upon rogue WAP/ laptop/ Smart hand held devices users getting into the Campus LAN. These controllers also show various WAP positions pictorially. Presently, 300+ WAPs have been installed with thin and fat functionality in the Campus to setup Wi-Fi zones in all-important places and departments in the University. CyberoamUTM is being used to check on Viruses, Worms, Trojans, Spams, Intrusions, Indiscriminate surfing, Spyware, Phishing and Pharming, Bandwidth Abuse etc., at servers' level in the UCC. Internet service provider also offers firewalls and other security solutions strengthening the UCC on the security front. On the spot registration of guests to use Internet facilities is also provided. Seamless connectivity is limited to a particular hostel only to avoid congestion of data traffic.

4.1.7 **Does the University offer medical facilities for its students and teaching and non-teaching staff living on campus?**

Yes.

Medical facilities in Punjabi University, Patiala are available through three main units.

- Physiotherapy
- Allopathy
- Homeopathy

Department of Physiotherapy is running 3 OPDs (General, Neurological and Sports) in the University campus and one OPD in Patiala city (Senior Citizen Association, Model Town) for geriatric population. General and Neurological OPDs are being run at University Health Centre, whereas Sports OPD is being run in the office of Director of Sports, Punjabi University, Patiala.

OPD	TYPES OF PATIENTS BEING ATTENDED	EQUIPMENT AVAILABLE
GENERAL OPD (University Health Centre)	Neck Pain Back Pain Knee Osteoarthritis Post fracture stiffness patients after Total Knee and Hip Replacement Surgeries Poliomyelitis Prolapsed Inter Vertebral Disc (PIVD) Tennis Elbow Numerous other soft tissue and musculoskeletal injuries	Interferentialtherapy (IFT) Ultrasonic Therapy (US) Transcutaneous Electrical Stimulations (TENS) Intermittent Cervical traction and Lumbar traction Short Wave Diathermy (SWD) Infra-Red Lamp (IR) Hydro collateral Packs Paraffin wax bath Whirlpool tank

		Weight cuffs Continuous Passive Motion (CPM)
NEUROLOGICAL OPD (University Health Centre)	Cerebral palsy Hemiplegia/stroke Traumatic Brain Injury Cerebellar Dysfunctions Balance disorders Parkinson disease Vestibular dysfunctions Muscular dystrophy Demyelinating disorders	Re-education couch/Mats Tilt Table Peg Boards Quadriceps Table Proprioception/Balance Boards Standing Frames Parallel Bars with Mirror Wheelchair Shoulder wheel Electrical stimulator
SPORTS OPD (Director of Sports) *running free of cost	Assessment and treatment of sports injuries patients of different sports (kabaddi, football, fencing, athletics, wrestling etc.) Masters Students (Sports) also accompany University sports team at various state level and national level competitions.	Ultrasonic Therapy (US) Transcutaneous Electrical Stimulation (TENS) Transcutaneous Electrical Stimulation (TENS) Intermittent Cervical traction and Lumbar traction
GERIATRIC OPD (Model Town, Patiala) *only patient above the age of 40 years are seen	Assessment of treatment of various geriatric conditions like Knee & hip osteoarthritis Low back pain Neck pain Hemiplegia Parkinson disease Post fracture stiffness Patients after Total Knee and Hip Replacement Surgeries Balance and vestibular dysfunctions Numerous other geriatric conditions	Interferential Therapy (IFT) Ultrasonic Therapy (US) Transcutaneous Electrical Stimulation (TENS) Intermittent Cervical traction and Lumbar traction Short Wave Diathermy (SWD) Hydro collateral Packs Paraffin wax bath Weight cuffs Electrical stimulator Proprioception/Balance Boards

The income generated by registering patients for consultation and follow-ups from General, Neurological and Geriatric OPD is deposited in the allotted budget head. Sports OPD is run free of cost for sports persons of University.

Year	Income generated* (generated by registering patients for consultation and follow ups)
	OPD I (General) + OPD II (Neurological) + Geriatric OPD
2008-09	2 - 2.5 lac
2010-11	2.5 - 3 lac
2011-12	3 - 3.5 lac
2012-13	3.5 - 4 lac
2013-14	4 - 5 lac

*Approximate values

Bhai Ghaniya University Health Centre (Allopathy and Homeopathy)

- The University is maintaining its own Health Centre/ Dispensary at the campus with a facility for outdoor patients, which remains open for 3 hrs in the morning and 2⅔ hrs in the evening for examining the patients.
- In addition to this, the health centre has a separate wing for homeopathic treatment.
- The staff and the facilities available at the campus include three Doctors (including a Lady Doctor and one Homeopathic Doctor), five Pharmacists (including one homeopathic), three staff nurses, two lab technicians, one radiographer, one ECG technician and six ward-attendants/dresser, dispenser, etc.
- It is equipped with laboratories for conducting clinical tests including computerized tests, Cell Counter, Bio-Chemistry analysis, digital X-Ray, etc. It has the facilities for carrying out ECG. It also has two Ambulances.
- It is also running DOTS Centre under Revised Natioanl TB Control Programme and participates in National Programmes like Pulse Polio Programmes.
- The Emergency services and the Resident Medical Officer are available round the clock.

4.1.8   **What special facilities are available on campus to promote students' interest in sports and cultural events/ activities?**

Sports Activities

The facilities of Sports and Physical Education are of high standard enabling the students to excel at the national and international level. It is because of these facilities that during the last eight years, **Punjabi University has won the prestigious MAKA Trophy for seven times**.

Directorate of Sports is in possession of a vast area measuring 16.89 acres housing excellent facilities. Some of the unique facilities include Air-conditioned shooting range, Standard boxing hall, Standard Athletics Cinder Track of 400 meters having the facility of floodlights, Cross Country route according to AAFI rules, IAAF synthetic athletics track is under consideration, Cycling Velodrome with flood lights and beautiful pavilion, Standard outdoor cemented courts of Basketball and one indoor court, One separate standard multi-facility Boxing hall, Two indoor Courts of Badminton, One grassy Hockey field with an option of two other grassy Hockey fields for the smooth conduct of All India Inter-University Tournaments, One grassy six-a-side Hockey field, Two Volleyball Courts with enclosure, Two Handball grounds (One clay and one cemented ground with enclosure), One football grassy ground with provision of two other grassy grounds, One open Archery range of 100 meter, One

multipurpose Gymnasium hall having all facilities of Table Tennis, Badminton, Judo, Wrestling, Karate, Weight Lifting, Fencing, Gymnastics, Volleyball and Basketball, One standard size Cricket field, Two Netball Grounds, Two Korfball Grounds, Two Kabaddi Courts, Two Kho-Kho Grounds, One Yoga Hall, Two Grassy Tennis Courts, Two Standard size Weight Lifting Platforms, One Conditioning Hall equipped with multi Gym machines.

The Directorate now has two air-conditioned hostels having the capacity to accommodate 200 men and 200 women sportspersons. It has its own bus also. A robust mechanism to check the threat of drugs, its monitoring and prevention has also been setup.

Almost every year Inter Class and Inter Departmental Sports Competitions are held for boys, employees, girls and women (employees and teachers). Lady Assistant Director Sports and Lady Coaches specifically cater to the needs of the girl players. Attractive incentives have been declared for the girl players.

Cultural activities: Department of Youth Welfare has been the pivotal player in the promotion of co-curricular activities in the University. It was established in the year 1967 with primary objective of promoting multi-layered cultural activities among the students of the University and its affiliated colleges. The students use Students' Home and Auditoriums for various on-campus cultural activities.

Elegant and glorious 'Kala Bhavan' is the house for four departments of Performing arts viz. Music, Dance, Fine Arts, and Theatre and Television. It also houses Charlotte Aujla Auditorium equipped with the latest technology with covered area of 30,000 sq ft. This building is fully air-conditioned and has all the latest technical facilities required for the preparation and production of Performing arts. It has the latest stage lighting and excellent sound system, which is essential for theatre, TV, music and dance. This Bhavan is a perfect assemblage of inter-disciplinary facilities most conducive for the researchers and students of these departments.

4.2. LIBRARY AS LEARNING RESOURCE

4.2.1. Does the Library have an Advisory Committee? Specify the composition of the committee. What significant initiatives have been taken by the committee to render the library student/user friendly?

Yes.

The Library has an Advisory Committee for the improvement in

services and infrastructure and allocation of funds. This committee consists of following members:

- The Vice-Chancellor (Chairman)
- All Heads of University Teaching and Research Departments
- Deans of all Faculties
- One person nominated by the Syndicate
- One person nominated by the Vice-Chancellor
- The Librarian (Ex-officio member and Secretary)

The committee frames regulations for the use of the Library, subject to the approval of the Academic Council and Syndicate; scrutinises the annual budget, estimates of the Library, allocates funds for the purchase of books and periodicals related to different subjects against the sanctioned grants and makes recommendations there on to the Vice-Chancellor.

4.2.2. **Provide details of the following :**

Total area of the Library (in Sq. Mts.):

4671 Sq. Mts.

Total seating capacity :

There are three reading halls having seating capacity of 500 users.

Working hours (on working days, on holidays, before examination, during examination, during vacation):

Library is being kept open for 360 days in a year from 8.15 a.m. to 8.15 p.m. Night Reading Hall is kept open for 365 days and its timings are from 8.00 a.m. to 6 a.m. next day. It remains closed for two hours only from 6 a.m. to 8 a.m.

Layout of the Library :

Individual reading carrels, lounge area for browsing and relaxed reading, IT zone for accessing e-resources:

Lounge area is provided for the library members on the third floor of the library for browsing and relaxed reading. Wi-Fi facility is available for accessing e-resources.

Clear and prominent display of floor plan; adequate sign boards; fire alarm; access to differently-abled users and mode of access to collection:

There is a guide map of floor plan at the entrance of the

library and directional guides are provided on every floor to help the users in getting their required services. Fire alarm system is installed in the library. Braille books are available for blind users. Lift is provided for physically challenged users.

4.2.3. **Give details of the library holdings :**

Print (books, back volumes and theses) :

- Library has a huge collection of 4,61,704 books, 53835 back volumes of journals and 9175 theses.
- To fulfil the main objectives of the University. Dr. Ganda Singh Punjabi Reference Library was established in the year 1981. It has collection of 64000 books and bound periodicals.

- The Punjabi University has established a well-stocked library having 20195 books & other reading material for the public at Mohali.

Average number of books added during the last three years	9567 books
Electronic (e-books, e-journals)	215 e-books, over 7500 e-journals (Indest Consortium & Dissertation Abstract International).
Book Banks	4576 books for SC Students

4.2.4. **What tools does the library deploy to provide access to the collection?**

OPAC	Yes
Electronic Resource Management package for e-journals	Yes
Federated searching tools to search articles in multiple databases	Yes
Library Website	http://punjabiuniversity.ac.in/pbiuniweb/pages/library.html
In-house/remote access to e-publications	In-House (Campus)

4.2.5. **To what extent is ICT deployed in the library? Give details with regard to**

Library automation	All in-house jobs are automated
Total number of computers for general access	40 Computers
Total numbers of printers for general access	10 Printers
Internet band width speed 2mbps 10 mbps 1 GB	10 mbps
Participation in resource sharing networks/consortia (like INFLIBNET)	INDEST, INFLIBNET, JCCC

4.2.6. **Provide details (per month) with regard to**

Average number of login to OPAC	4000
Average number of login to e-resources	3000
Average number of e-resources downloaded/printed	2000
Number of IT (Information Technology) literacy trainings organized	05

4.2.7. **Give details of specialized services provided by the library with regard to**

Manuscripts -
Library has 1147 manuscripts. 843 manuscripts have been digitised and their catalogue is available on university library website.

Reference -
Reference section is available on the first floor to guide and help the users.

Reprography/Scanning-
Photostat is available @ 50 paise per flash & scanning @ Rs. 5/- per document.

Inter-library Loan Service-
Library is member of INFLIBNET & DELNET. The books & articles are arranged on demand of the users.

Information Deployment and Notification-
On line public access catalogue is available on world wide web through Punjabi University website. Various systems have been installed on different floors of the library.

Internet Access-
Internet Access is available in all the sections of the library. Separate Internet Access Lab is available for users. The library is Wi-Fi enabled.

Downloads-   Printouts-
Downloading is free of cost and printing is @ Rs. 2/-per page.

Reading list/Bibliography compilation-
These are compiled on requirement and on special occasions.

In-house/remote access to e-resources-
In-house access to e-resources is available in the campus through internet.

User Orientation-
These programs are organised every year for the fresh entrants.

Assistance in searching Databases-
Special Demos & Training/workshops are organised and provided when required.

4.2.8.   Provide details of the annual library budget and the amount spent for purchasing new books and journals.

Total annual library budget for the purchase of new books and journals is Rs. 61 lac and the amount spent is 60 lac.

4.2.9.   What initiatives has the university taken to make the library a 'happening place' on campus?

The University has provided the modern infrastructure for the library. The library has a rich collection of documents of various subjects pertaining to Sciences, Social Sciences and Humanities. The library has a fully A.C. building, very spacious, calm and beautiful with Wi-Fi facility and special Digital/Internet Access Lab.

4.2.10.   What are the strategies used by the library to collect feedback from its users? How is the feedback analysed and used for the improvement of the library services?

Librarian is always available for the users, collects their feedback both in written form, and made in person. The staff employed in Reference Section of the library also collect feedback. The feedback is analysed and the services are improved accordingly.

4.2.11. **List the efforts made towards the infrastructural development of the library in the last four years.**

- Total renovation of the library building
- Centrally Air Conditioning
- Wi-Fi facility
- Implementation of RFID Technology
- R.O. Water Supply
- Upgradation of CCTV Cameras
- Lift for physically handicapped users.

4.3   IT INFRASTRUCTURE

4.3.1   **Does the University have a comprehensive IT policy with regard to IT   service management?**

Yes. The University has set up a University Computer Centre. It was established in the year 1986 with the assistance of University Grants Commission. University Computer Centre (UCC) is taken as centralised resource facilitator for computerization with an aim to cater to the needs of the entire University. The principal objective of UCC is to provide readily available facilities of computer milieu to students, research scholars and teachers of the University. Its associated objective is also to automate administrative and secretarial wings of the University. It is one among the best in the region in terms of computing resources, campus wide network and internet facility.

The University has a definite policy related to subscription of internet bandwidth form ISP, campus-wide networking, website management, annual maintenance/ service contracts, purchase of IT related equipment, staff training, conducting viva-voce for registration/ final submission viva-voce of research scholars and checking upon bandwidth abuse.

A detailed description is as below:

- **Internet facility:** Any educational institute aiming at high growth and a potential to join big league, cannot overlook networking. Sensing out this dire need well in time; UCC emerged as a pioneer podium in the state to extend campus wide Internet facility way back in the year 1996. It extended the facility through thick/ thin Ethernet now currently banking upon robust 20+ km of fibre optic backbone supported through 1 GB fibre/ 10 GB fibre links. The University has dedicated 15 Mbps 1:1 uncompressed bandwidth for Internet facilities from M/s Quadrant Televentures Limited, Mohali. Rs. 3.01 Lac are being incurred on the service being provided for the period of 1-year w.e.f. January, 2015. In addition, 155

Mbps bandwidth is made available under NKN-NMEICT project of MHRD. Rs. 50 Lac are being incurred on the service being provided for the period of 10 years w.e.f. December 2010. These are 1:1 leased line connection available on fiber links/ Copper links resulting in unlimited 24X7 connectivity. In the main campus, the facility has been extended to all the departments, administrative branches, hostels, research scholar flats and guesthouses through fiber links. As per policy, non-academic sites are disallowed using academic hours (10:00 am – 5:00 pm).

- **Campus-wide Local Area Network:** The Campus Backbone is primarily being used to access On-line Journals, Library ERP, Net Surfing, Intranet Applications, Online Examinations, Placement of Students, Online Admissions, Hostel Administration and Surveillance. The Accounts Branch is having its own Intranet (managed on the campus backbone through a separate VLAN/ firewall) connecting its offices at Administrative Block and Enquiry Office (Main Gate). Similarly, Examination Branch and Main Library do have their own Intranets. The UCC is managing proxy through firewall, DNS and allied servers for the University. Xeon multi core x86 Intel Blade based technology processor servers on Linux/ Windows platform from IBM is being used to run various applications at the UCC. The web browser enabled pbi.ac.in e-mail facility allows the user to access their e-mails anytime, anywhere. Presently, the domain name is registered with ERNET India. Mail server is managed using Google Apps Services. The mailing services are being made available to Faculty, Administrative Staff and Research Scholars.The power backup in the UCC to the servers has been provided through 7KVA on-line UPS with 120 AH maintenance free batteries with 6 hours backup. The University has about 1500 nodes on its network. These are hooked to central backbone either through wired links/ Wi-Fi nodes. All the users in the University are authenticated through Cyberoam Firewall. All Wi-Fi users have to register their laptops through Hostel Wardens with UCC. Manageable WAPs (Majority D-Link) are being used to statically bind these laptops. Presently, five Wireless Controllers installed in UCC check upon rogue WAP/ laptop/ Smart hand held devices users getting into the Campus LAN. These controllers also show various WAP positions pictorially. Presently, 300+ WAPs have been installed with thin and fat functionality in the Campus to setup Wi-Fi zones in all important places and departments in the University. Managed Campus Network on different VLANS is being managed through 3COM/ hP/dLink manageable Layer 3 and Layer 2 switches.An NMS with Graphical Interface is employed to make certain proper working of various fibre segments.CyberoamUTM is being

used to check on Viruses, Worms, Trojans, Spams, Intrusions, Indiscriminate surfing, Spyware, Phishing and Pharming, Bandwidth Abuse etc. at servers' level in the UCC. Internet service provider also offers firewalls and other security solutions strengthening the UCC on the security front. About 10,000+ users are registered to use the campus Internet facilities on average.On spot Registration of Guests to allow them to use Internet facilities is also provided.

- **Website management:** Punjabi University, Patiala is also pioneer to launch its own website www.pujabiUniversity.ac.in in the region.It is a rich collection of about 3000+ pages and other images, videos and digital assets that are being hosted on a web server engaged by the UCC and accessible via the Internet.It is in English & Punjabi language. The website incorporates all important facets and features related to the University. To name a few, these are faculty and teaching/ research department profiles, information about its regional campuses and neighbourhood campuses, results, admission forms, news and events, tender notices, details of the functionaries of the University and latest announcements of seminars/ conferences/ symposia being organized in the University. The website catalogue/ specify all-important links to the various other sites propagated at the PUP for the promotion of Punjabi language. It also identifies the noble and pioneer schemes like Golden Heart scheme: reaching the unreachable etc. It provides round the clock access to the site. The UCC owns space of 25GB from M/s Quadrant Televentures Limited, Mohali (10 GB web space is being provided on a goodwill gesture by the ISP). The website is being managed on Linux/ PhP/ MySQL platform. Primarily, OSS are used to create WebPages. Many departments/ branches/campuses have developed the skill to update their respective pages themselves.

The website development and maintenance is carried out in three forms :

- o The Centre has trainee programmer who manages the website for majority of departments and branches with the assistance of M/s Webstar Technologies, Patiala.
- o Certain departments have expertise to update their respective pages. They are accordingly authenticated/ authorised ftp uploading facility. For example, Examination Branch of the University has been trained to upload examination schedules, important notices and results without any external help from the UCC now.
- o Other departments and research groups which have funding, do publicise their activities professionally by hiring their own web space. Technical staffs of these

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departments/ groups develop/ maintain their respective websites on their own or these are outsourced.

- **Software Development and Resource facilitator:** The system officers have been carrying out software development activities of the various administrative/ secretarial branches of the University on demand basis.The job profile of System Officers of the Centre also includes BPR studies and ERP implementation in the University system. It involves carrying out requirement analysis, purchasing generic modules, gap analysis, customising generic modules and maintenance of these modules. In majority cases, innovative ideas for process reengineering are the result of the insightfulness of the technical members of the UCC.It has been Coordinating/ helping Coordinators of various Entrance Examinations by providing them essential computing infrastructure and support for the smooth conduct of entrance examinations/ online counselling etc.The UCC has been managing the resources provided by it to the secretarial offices of key functionaries of the University as the Vice-chancellor, Dean Academic Affairs and Registrar.The system officers of the UCC have been instrumental in introducing complete Online Admission Application while integrating it with Payment Gateway and SMS Gateway to the various courses run at the main campus, neighbourhood campuses, regional campuses and its constituent colleges.

- **Coordination of Purchases related to Computers/ Peripherals:** The UCC determines the IT related purchases at all micro/ macro levels in the University. The University expects strong-minded recommendations related to IT infrastructure updates from the UCC. The staff of the Centre is competent enough to provide solutions on server, storage, security, switching, structured cabling, surveillance, connectivity (wired and wireless), computing devices and peripheral devices. Central Purchase Committee duly approved by the University makes all purchases related to computers/ peripherals. In the capacity of technical members on the CPC, Systems officers of the UCC suitably formulate these purchases.

- **PG Diploma Courses:** An initiative of the UCC employees, who are technical and classified by UGC as Academic non-vacation, in running Post-Graduate Diploma in Computer Applications (a minor course that can also be pursued additionally by on-campus students for augmentation of their major degree programme), in Computer Maintenance and Networking (Annual, Minor Course) and in Internet and Web Designing (Annual, Minor Course). The UCC runs a Post Graduate Diploma in Computer Applications (PGDCA)

Course of one-year duration spread over two semesters. It is a minor course. System Officers of the Centre carry out classes in the evening after office hours. The course allows fifty students to enhance further their employment opportunity. Additionally, five employees are also accommodated to the course. The University allows tuition fee waiver to such employees. The UCC also runs PG Diploma in Computer Maintenance and Networking (Annual Scheme) and PG Diploma in Internet and Web Designing (Annual) courses. Both of these courses are minor courses. These courses are run in afternoon slot. Minimum number of students (20) enrolment to these courses is a binding.

- **Wireless Access Points:** Presently, 300+ WAPs have been installed with thin and fat functionality in the Campus to setup Wi-Fi zones in all-important places as main library, hostels, guesthouses and departments in the University. Present solution is based on a/b/g technology, which supports data services only. Now onwards n/ ac technology based WAPs are being purchased to support voice, video and data traffic. Majority of the students bring their own devices to access the campus e-facilities.

- **Video Conferencing:** A modest facility has been set-up using 10x Optical Zoom Life Science PTZ motorised Camera with 45 to 120 degree horizontal and vertical focusing, 42" LCD Monitor, through in-built Skype connection/ on direct IP based connection to communicate with far-end user. Presently it is on one to one communication. This facility is being intensively used for Online Examinations, PhD Registration and submission, Viva-Voce, Interactive Lectures, Placement Interviews and Meetings.

- **Fire safety measures:** Preventive measures have been taken by deploying auto- discharge mechanism on temperature rise, eco-friendly, and safe for the Servers and switching equipment installed in the Server Room. Additional fire safety measures have been deployed for UPS backing core switches, firewalls and servers which is auto- discharge mechanism on temperature rise, eco-friendly and absolutely safe for UPS. A large number of stored pressure type, manually operated Ceasefire extinguishers have been installed on the floor of the Centre. All these products are ISI and CE approved with five-year warranty.

- **Fire Alarm System:** Adequate number of smoke detector, glass break, and manual call point with blinking facility with battery supply, chain and hammer, electrical hooters, response indicator have been setup.

- **Annual Maintenance Contracts/ Services:** The lifetime of a desktop/ laptop is supposed to be of four years. Similarly, all servers are supposed to be set up for five years. Manufacturer sets the lifetime of active networking equipment. Generally, all commercial computing machines/ active components come with three years warranty. Experiences commensurate that these machines become out of use due to non-availability of components or these are not backed up for by downward compatibility of upgraded software. Hardware faults are quite infrequent. Accordingly, service support is sought rather than going for comprehensive AMCs. The UCC generally goes with the third party support for AMC/ Service Contracts on annual basis. Departments/ Branches who have their own technical staff are being provided training on following aspects, if required by them.

  A brief synopsis of sought after services is as:

Desktops/ Laptops/ Departmental LAN

- Installation of the operating system/ reinstallation/ running the recovery CD etc.
- Installation/Reinstallation of the MS Office, Anti-Virus or similar software under Windows based Operating System.
- Configuring the system for Internet surfing.
- Integration/inspection/ restoration of LAN/Internet Connectivity from the service point of Campus backbone (edge switch of installed by University Computer Centre provided in the concerned Department/Building to desktop/ System node.
- Installation of the system drivers including peripherals such as Scanners, Printers etc., as per the demand of the end user. The concerned Department/ Branch provides the licensed software/proprietary drivers for the above purpose. Maximum permissible time is until next working day.
- Repair of all type of active and passive components is solely the responsibility of concerned department/ branch.

Campus Network Backbone

- Fault-diagnosis/exactly pinpointing breakdown in the OFC segments of Campus LAN backbone (Presently, there are 18* OFC (Eighteen) segments in the University). *Subject to change
- Maximum permissible time allowed is 48 hours.
- The UCC carries out penta-scanning as per the demand of the Company.
- Repair of all types of active and passive components including OFC is solely the responsibility of the UCC.

Repairs/ Replacement

- Repair work/replacement of parts of active or passive components/Computer systems and peripherals etc. is executed through the Company or any other vendor on the basis of competitive prices/quality on the call/payment basis.
- Fault diagnosis and the assessing amount for repair in desktop/laptop (scope includes only out-of-warranty machines) are to be suggested by the Company.

Equipment

- The obligation of Company towards maintenance is limited to only the desktops/laptops. The list of the Departments/ Branches is provided to the company.
- Presently, the maintenance service charges are fixed @ Rs. 60/- per machine per annum.
- The numbers of machines during the contract are subject to increase/decrease as per the discretion of the CUSTOMER. Accordingly, payment is subject to be charged on pro-rata basis.
- Dedicated Servers maintained by the departments/ branches are excluded from the present scope of work.
- The CUSTOMER takes care of the equipment, houses it in suitable conditions and follows such instructions on these matters given by COMPANY from time to time.
- Any damage caused to the equipment because of improper handling, environmental failures such as bad power supply/ UPS/ Stabilizers/CVT and improper earth, proper temperature not being maintained, environment not being kept dust free, etc., are not covered under maintenance contract. Damage due to calamities like arson, lightning, earthquake, flood, storm, rioting, theft or any accident whose cause is not ascribable to the company are also not covered under this maintenance contract.
- In case of the issues related to satisfactory connectivity, the company shows the customer that the Network and Internet connectivity are functioning well by using the company's Laptop.
- The repairing of System Hardware and providing of basic Software is the responsibility of the concerned customer/ department or branch.
- At least two hardware engineers/technicians are being made available for the whole day on all working days.
- In case of urgency, the Engineer/ Technician can also be called on Saturdays, Sundays and on other holidays with a prior intimation.

- The Computer Operator/Employee designated by the University for AMC related jobs: -
  a) Coordinates the jobs to be executed by the Company.
  b) Ensures the regularity of the service engineers/ technicians accordingly.
  c) A call is considered closed only if it is properly signed by the concerned person/in charge of machine.

- **Software Asset Management:** All computing machines are purchased with bundled preloaded OS or as provided by the OEM. Academic Microsoft editions/ others are preferred for office automation. Proprietary software are used by the principal investigators or by the departments giving specialised training. Systems Officers are on the advisory committees of Examination Branch, Accounts Branch, UCoE, Distance Education Department and Library for introducing ERP. Evaluation of the Generic modules, Gap Analysis and Customization of the ERP Module are being carried out under the strict direction of the system officers of the UCC. Staff training programmes are being conducted on regular basis under the patronage of Staff Training Cell and Academic Staff College. Technical workshops on IT awareness are being conducted on a regular basis with the help of leading OEMs from time to time.

- **Open Source Resources**: Open Source Programming language compilers e.g., c/C++, Java etc., are being preferably used. Open Office, WPS is also a preferred tool for office automation.

- **Green Computing/e-waste management Policy:** University Computer Centre is working as Nodal Agency headed by Director, Computer Centre to implement e-Waste Management Rules Management and Handling Rules 2011 at University Level as per the standards laid down by Pollution Control Board.

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4.3.2   Give details of University's computing facilities i.e., hardware and software.

Around 1500+ computing machines are available in the campus. Tendency in the campus is to provide strong backbone, LANs and Hot spots. Majority of the students prefer bringing their own smart devices for computing. Refer to section 4.3.1 for LAN facility, proprietary software and other details.

The University has identified four computer labs of Computer Engineering Department (180 Computers), one lab of Computer Science Department (50 Computers), one lab of School of Management Science Department (50 Computers) and one lab of

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University Computer Centre (20 Nodes) are being used as Centralised Facility for conducting placement examinations, typing tests and other online tests. All these nodes are with internet facility.

Please note that the detailed descriptions and facilities generated in the respective departments (under the UGC-SAP, DST-FIST, IPLS) have been declared separately by them.

Preferable/ popular Configurations of desktops

- Office Usage: Dual Core or C2D 3G/4G machines with 4Gb RAM and 500 Gb Hard Disk with preloaded OS (Preferably AIO).
- Computer Labs: i3 3G/4G machines with 4Gb RAM and 500 Gb Hard Disk with preloaded OS (Preferably AIO).
- High-end Computing Labs: i5 3G/4G machines with 4Gb RAM and 500 Gb Hard Disk with preloaded OS (Preferably AIO or Laptops).

4.3.3 What are the institutional plans and strategies for deploying and upgrading the IT infrastructure and associated facilities?

1. Network Security Solutions

Prevailing firewall (Cyberoam) UTM is being used to check on Viruses, Worms, Trojans, Spams, Intrusions, Indiscriminate surfing, Spyware, Phishing and Pharming, Bandwidth Abuse etc. at servers' level in the UCC. Almost 10,000+ users are registered to use the campus Internet facilities on average. The existing firewall system available in the University lacks teeth to address VPN, 3G/ 4G/ Wi-Max connectivity, Instant Messaging Archiving and Controls, Wireless Security, IPv6 Ready, Next-Gen UI and handling a large number of Concurrent Users who bring their own smart devices.

A next-generation firewall/ UTM is required that can address upon Data Leakage Prevention, Zero-day Attack Prevention, Virtualization, IPv6 enabled, Inbound/ Outbound data filtration, WAN/ LAN/Wireless/ Bandwidth Management e.g. Load balancing, WAN log reports, Hotspot prevention/logs etc., Multiple ISP Failover/ Configuration/ Management/ Log, Wireless/ Mobile/ BYOD/ Security, External AD/LDAP Integration, Separate Data and Control Parts, Load of total 30,000 to 40,000users and 10,000+ concurrent users, Device/ Protocol/Port/OS/ Application/ Content/Versions level Inspection/ Protection/ Prevention.

2. **Campus-wide Networking:**

   a. **Core Switches (Layer 3), Distribution Switches and Edge Switches**

   Existing Layer3 switches support 1G fiber ports, are manageable and maintained by using proprietary Network Management Software are adequate enough to manage traditional wired network environment employing desktops. NMS available is sufficient to handle up to 100 3Com/hP/dlink active manageable Layer2/3 switches. 1G Technology is technically obsolete now. Proprietary NMS supports only selected switches.

   Setting up a modular architecture core switching solution at the University to plan, effectively operate and maintain digital campus to serve the University's key tasks related to education and research is required. These switches must support
   - 10g connectivity ready
   - iPv6 ready
   - Virtualization or Grouping
   - Modular architecture
   - Link aggregation
   - High backplane speed
   - ASIC based , DoS and DDoS protection
   - DOM (Digital Optical Monitoring)
   - QoS Access Control List: PORT BASED AND TIME BASED

   Up to date Network Management Software that can support multivendor networking components and serve the following is also required.

   - Easy device and asset management
   - Real time alarm monitoring
   - Real time notifications
   - Historical alarm query
   - Report and log management
   - One touch or zero touch configuration
   - Detailed panel information of switches

   b. **Campus-wide Fibre Backbone:**

   About 20+ km of fibre backbone connecting all-important academic blocks in the entire University is available. However, the topology is not robust. It lacks redundancy. Dig/ laid at smaller depth is prone

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to damage during construction/ civil works. Majority links are of 1G data capacity.

Immediate strengthening of Campus-wide Fibre Backbone and its improved Management is required by introducing new fibre segments linking the UCC with all buildings/ branches and other important academic/ administrative blocks.

3. **Moderate sized Data Centre for Campus-wide ERP Applications**

Data repository for various student centric ERP applications, a sufficient sized data centre with proper hardware and software support is not available. Smart-card Management, ERP Applications, Admission Trend Analysis, Research Data Repository can be made available.

4. **Gen-Set/ UPS battery Bank for Core Switches**

Gen-Set/UPS Solutions are in pieces. Air-conditioning solution is not suited for switches, as it dehydrates labs dismally adding up the static charge alarmingly. A new type of se tup for Prolonged Lifespan of sophisticated and costly equipment to be used intensively for Real-time applications and to Prevent Data losses due to Electrical malfunctioning is urgently required.

5. **Enterprise level Email/ File server**

Xeon multi core x86 Intel Blade based technology processor servers on Linux/ Windows platform from IBM is being used to run various applications at the UCC. The web browser enabled pbi.ac.in e-mail facility allows the user to access their e-mails anytime, anywhere. Presently, the domain name is registered with ERNET India. Mail server is managed using Google Apps Services. The mailing services are being made available to Faculty, Administrative Staff and Research Scholars. It lacks data security, management and has limited scope of work. These free services are of promotional nature and are at discretion of its proprietors.

6. **Surveillance and Fire safety system**

Wall mounted, automatic heat sensor ceiling mounted fire extinguishers have been set up in critical regions, which are ideally suited for server, switches and UPS batteries.

Proper response indicators, smoke detectors, hooters and conventional fire alarm panels have been set up as preventive measures to check upon fire. It is bare minimum solution, which hardly complies the building safety norms and fire safety norms for computer centres. Intruders, trespassers and unauthorised users are unnoticeable and difficult to track/trace with physical security alone.

Robust fire safety system, fire alarms as per building and fire safety norms can safeguard human life, costly storage, switching, servers, firewall and other sophisticated equipment.

7. **Upgrading Wi-Fi based Hostel wide LANs and to Set new Wi-Fi Zones.**

Presently, 300+ WAPs have been installed with thin and fat functionality in the Campus to set up Wi-Fi zones in all-important places as main library, hostels, guesthouses and departments in the University. Present solution is based on a/b/g technology, which supports data services only.

Majority students will bring their own devices to access the campus e-facilities. WAPs that can support heavy load of concurrent users, voice and video applications will be able to support next generation e-facilities.

8. **Setting up Video-conferencing facility**

A modest facility has been set-up using 10x Optical Zoom Life Science PTZ motorised Camera with 45 to 120 degree horizontal and vertical focusing, 42" LCD Monitor, through in-built Skype connection/ on direct IP based connection to communicate with far-end user. Presently it is on one to one communication. This facility is being intensively used for Online Examinations, PhD Registration and submission Viva-Voce, Interactive Lectures, Placement Interviews and Meetings. Present Video Conferencing Solution is a temporary solution, in-housed in the existing lab. Present facility does not support one to many and many to many conferencing. The facility is laid on low bandwidth segment that is inadequate to support quality audio-video essentially required for Video-conferencing. Separate room with proper acoustics for Video-Conferencing is not available. Seating arrangements for Conferencing and Online Meetings is improper and inadequate. An escalating trend for online discussions, conferencing, online lectures and placement interviews etc. is observable. It will soon be a necessity rather than to a luxury.

9. University Management System/ ERP Package

Presently Examinations Branch, Main Library, Accounts Branch, Girls' Hostels, Distance Education Department and Online Admission Cell have come up with computerization of their internal processes.A student centric University Management System/ ERP package intending to implement the following features is not available:

- Connect, centralize and automate all the departments, Regional centres & Neighbourhood campuses.

- Provide collaborative environment to the students, parents, teachers, administrative staff, management, vendor and public.

- Have better control, monitoring and decision making of all aspects of all concerns.

- Improve the productivity, efficiency and reduced cost.

Their implementation will enhance good governance, characterized by transparency and accountability. A comprehensive University Management System/ ERP package will empower the University Administration to stay on top of student's progress - with regular email updates, alerts and online access to information related to timetables, exams, homework, attendance information, faculty comments etc.

10. Computer Centre Building

Present Centre lacks physical security needs, cooling issues with environment factors, electrical requirements, floor loading restrictions, fire detection/suppression & spacing other infrastructure components. Sufficient space to conduct typing/computer proficiency examination of entrants, technical training session of staff is inadequately available. Video-conferencing committee meetings are conducted in lab. No funding/grants are now available for existing Computer Centre.

For the Centre the following facilities are urgently required:

- Server Room
- Computer Lab of 50 nodes (Recruitment Exams, Placements, Staff Trainings, PG Diplomas)

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- 100 Seated Multimedia Video-Conferencing Auditorium
- Smart Digital Class Room.

4.3.4 **Give details on access to on-line teaching and learning resources and other knowledge and information database/ packages provided to the staff & students for quality teaching, learning and research.**

The University emerged as a pioneer podium in the state to extend campus wide Internet facility way back in the year 1996. It extended the facility through thick/ thin Ethernet now currently banking upon robust 20+ km of fibre optic backbone supported through 1 GB fibre/ 10 GB fibre links. The University has dedicated 15 Mbps 1:1 uncompressed bandwidth for Internet facilities from M/s Quadrant Televentures Limited, Mohali. Rs. 3.01 Lac are being incurred on the service being provided for the period of 1-year w.e.f. January, 2015. In addition, 155 Mbps bandwidth is made available under NKN-NMEICT project of MHRD. Rs. 50 Lac are being incurred on the service being provided for the period of 10 years w.e.f. December, 2010. These are 1:1 leased line connection available on fibre links/ Copper links resulting in unlimited 24X7 connectivity. On the main campus, the facility has been extended to all the departments, administrative branches, hostels, research scholar flats and guesthouses through fibre links.

Now the Individual departments are making use of this facility for accessing online resources, electronic formats of theses and dissertations available in the repository of Shodhganga (Inflibnet-UGC), NPTEL study material and many more.

A modest facility has been set up using 10x Optical Zoom Life Science PTZ motorised Camera with 45 to 120 degree horizontal and vertical focusing, 42" LCD Monitor, through in-built Skype connection/ on direct IP based connection to communicate with far-end user. Presently, it is on one to one communication. This facility is being intensively used for Online Examinations, PhD Registration and submission Viva-Voce, Interactive Lectures, Placement Interviews and Meetings.

The Campus Backbone is primarily being used to access On-line Journals, Library ERP, Net Surfing, Intranet Applications, Online Examinations, Placement of Students, Online Admissions, Hostel Administration and Surveillance.

Please note that the detailed descriptions and facilities generated in the respective departments (under the UGC-SAP, DST-FIST, IPLS) have been declared separately by them.

4.3.5 **What are the new technologies deployed by the University in enhancing student learning and evaluation during the last four years and how do they meet new/ future challenges?**

- Enhanced Internet Facility
- Extended Campus-wide networking
- e-Surveillance for the better security
- Use of advanced featured firewall for checking upon bandwidth abuse.
- Access to on-line journals, thesis and dissertation repositories in the Campus and NPTEL study material.
- Wi-Fi hot spots in the main library, hostels and departments.
- Video-conferencing facility
- Online Admissions with provision of online payment and feedback through integrated SMS facility
- Enhanced Website of the University
  (Please Refer to section 4.3.1 for details)

4.3.6 **What are the IT facilities available to individual teachers for effective teaching and quality research?**

Power Point presentations are the most obvious preference of the faculty to prepare computer aided/ learning materials with the faculty members. Almost all the departments make use of suitable software, laptops/ desktops, LCD/DLP projectors, and some of the departments even use smart boards for day-today teaching. Generally, low priced projectors with less lumens are preferred in the tutorial rooms and classrooms. Training programmes/ professional events are conducted from time to time for the teachers to make them aware of the latest trends in technologies. The University Computer Centre provides technical support to the Principal Investigators in identifying/ purchasing computing equipment, software, and peripherals etc. as per their requirements.

Currently, the University is banking upon robust 20+ km of fibre optic backbone supported through 1 GB fibre/ 10 GB fibre links. The University has dedicated 15 Mbps 1:1 uncompressed bandwidth for Internet facilities from M/s Quadrant Televentures Limited, Mohali. In addition, 155 Mbps bandwidth is made available under NKN-NMEICT project of MHRD. These are 1:1 leased line connection available on fiber links/ Copper links resulting in unlimited 24X7 connectivity. On the main campus, the facility has been extended to all the departments, administrative branches, hostels, research scholar flats and guesthouses through fiber links. As per policy, non-academic sites are disallowed during academic hours (10:00 am – 5:00 pm). The Campus Backbone is primarily being used to access On-line Journals, Library ERP and Net Surfing. The University has about

1500 nodes on its network. These are hooked to central backbone either through wired links/ Wi-Fi nodes. Presently, 300+ WAPs have been installed with thin and fat functionality in the Campus to set up Wi-Fi zones in all important places and departments of the University. Managed Campus Network on different VLANS is being managed through 3COM/ hP/dLink manageable Layer 3 and Layer 2 switches. All the teachers are registered to use the campus Internet facilities. On spot Registration of Guests to use Internet facilities is also provided.

Please note that the detailed descriptions and facilities generated in the respective departments (under the UGC-SAP, DST-FIST, IPLS) have been declared separately by them.

4.3.7   Give details of ICT-enabled classrooms/ learning spaces available within the University? How are they utilised for enhancing the quality of teaching and learning.

Please refer to section 4.3.6 for the various IT facilities available to individual teachers for effective teaching and quality research.

1. High lumens DLP/ LCD projectors have been made available in all the auditoriums of the University.
2. Smart Boards are being used in day-to-day teaching in departments of Management, Physical and Life Science faculties.
3. On-line herbariums, Simulations, Power Point Presentations, case-tools/ studies are preferably used by the teachers to enhance the quality of lecture delivery.

4.3.8   How are the faculty assisted in preparing computer-aided teaching-learning materials? What are the facilities available in the University for such initiatives?

The Educational Multi-Media Research Centre is well equipped with studios, preview room with the facility of video-conferencing in it. The centre is equipped with C-Band antennas through which telecast of programs of different Educational Channels are received under UGC-CEC countrywide classroom scheme. It has come with a huge number of video lectures put by many eminent scholars of the University. The centre is organising special programmes for e-content development.

Department of Distance Education, Staff Training Centre, University Computer Centre and UGC-HRD Centre are regularly conducting courses to train faculty members for preparing e-content. These departments are well-equipped with smart class rooms, software and computing facilities to impart assistance in preparing computer-aided teaching-learning material.

Department of Gurmat Sangeet, Botany, Women Studies Centre, various Centres of research and many other departments have come up with rich content management system for better liaison with different stakeholders.

Some best practices are stated below.

- Gurmat Sangeet Chair established for the research activities has proud privilege in taking exclusive and unique initiative to build up the infrastructure with the donations from various agencies. An audio-visual archive of music is being established that will preserve recording of Classical music, Sufi music, Punjabi folk music and Indian Kirtan traditions especially Shabad Kirtans of Gurmat Sangeet. The Deptt. is exploring the possibility of video-conferencing to conceptualise virtual classroom cassettes, CDs, DVDs related to Gurmat Sangeet. The Department has prepared and submitted 10 programs on Gurmat Sangeet subject for UGC – Consortium for Education Commission with the help of Education Multi Medical Research Centre. These programs are Styles of Classical Music in Gurmat Sangeet, Styles of Folk Singing in Gurmat Sangeet, Kirtan Chauki Tradition of Gurmat Sangeet, Musicology of Gurmat Sangeet, Rabab, Raag Probandh of Gurmat Sangeet, Rahao Prabandh of Gurmat Sangeet, Ritukaalin Kirtan Chauki Tradition of Gurmat Sangeet, Tanti Saaz Tradition of Gurmat Sangeet.

- Department of Physics is maintaining a seminar cum classroom with Multimedia Projecting System and Video conferencing. A package has been developed to teach elementary Quantum Mechanics, computer-programming languages at post-graduate and undergraduate level. A package to calculate X-ray cross sections has been developed and duly published by the faculty of the Department.

- The Advance Centre for Technical Development of Punjabi Language, Literature & Culture has set up a Natural Language Processing Lab. In the first phase, the areas of machine translation and transliteration have been taken up. A software package entitled Development of Punjabi Morphological Analyser and Generator has been developed. 'Sangam', commercial software for Transliteration of Punjabi text from Gurmukhi script to Shahmukhi (Urdu) script has been developed. Many copies have already been sold in India, UK, Canada and USA. The first Punjabi spell checker, Punjabi word processor and Romanised Punjabi typing software have also been developed. A multi-media based website for Punjabi Teaching has been developed by the staff & students. The website is being used in more than 100 countries for teaching Punjabi to children.

4.3.9   How are the computers and their accessories maintained?

Heads of departments/branches are competent to make immediate purchase of accessories and minor upgradations in computing infrastructure from the contingencies budget provision available with them. Major professional departments do have regular budget provision for maintenance of computers and peripherals on annual basis at the University level.

Budget provision in common pool is separately available for the teaching and non-teaching departments/ branches that can be used after seeking the permission of the authorities. Provision of Rs. 6.00 Lacs per annum has been suggested for maintenance of computers and peripherals on annual basis at the University Level. Annual Service Contract with the third party vendors is the most common practice followed in the University. For all contracts the systems officers of the University Computer Centre provide technical support as a member the committee.

Please refer to section 4.3.1 para 10 for details.

4.3.10   Does the University avail of the National Knowledge Network connectivity? If so, what are the services availed of?

Yes, 155 Mbps bandwidth is being made available under NKN-NMEICT project of MHRD. Rs. 50 Lacs are being incurred on the service being provided for the period of 10 years w.e.f. December, 2010. This is 1:1 leased line connection available on fiber link resulting in unlimited 24X7 connectivity. On the main campus, the facility has been extended to all the departments, administrative branches, hostels, research scholar flats and guesthouses through fiber links. Some Constituent Colleges where the connectivity is feasible have been provided 10 to 20 VPNoBB connections @512 Kbps connections.

- The network enables co-sharing of information such as classroom lectures, presentations and handouts among students.
- The NKN enables collaboration among researchers from different educational institutes. It allows them sharing of scientific databases and remote access to advanced research facilities.
- The network enables sharing of journals, books and research papers across different institutions. It also allows the teachers and students, free access to teaching content in casting design and simulation developed at IIT Bombay.
- The availability of the efficient, high-speed (Multi Gigabit) network backbone the National knowledge Network (NKN) and Garuda's migration to NKN gives many opportunities to

exploit the Gigabit speeds for the scientific and engineering applications being run on the GARUDA.

- Currently the highly reliable and available NKN connects the resources of the Garuda grid with a bandwidth of 1 Gbps, with provisions of QoS and Security.

4.3.11 Does the University avail of web resources such as Wikipedia, dictionary and other education enhancing resources? What are its policies in this regard?

Yes, Orientation programmes focus use of e-resources through special lectures.

4.3.12 Provide details on the provision made in the annual budget for the update, deployment and maintenance of computers in the University.

- Provision for Rs. 40 Lacs has been made as the item #18[#] (Budget Head- Office of the Registrar) for computerisation, website development, hosting, networking, purchase of software and maintenance on annual basis.

- On annual basis, provision for Rs. 25 Lacs has been made as item #7[#] for computerisation of departments; Rs. 6.00 Lacs for maintenance of computers and peripherals as the item #9[#] and Rs. 1.00 Lakh for the subscription of databases etc. (Budget Head- Miscellaneous needs of all teaching departments). ([#] Source Budget 2014-15).

- A provision of Rs. 30 Lacs is available for the subscription of Internet Bandwidth, Rs. 5.30 Lacs for Annual Maintenance contract, Rs. 1.25 Lacs for website development and hosting and Rs. 15 Lacs have been ear marked in the budget to facilitate Wi-Fi/ Fibre-optic bridging.

Please note that the response excludes detailed descriptions of respective departments.

4.3.13 What plans have been envisioned for the gradual transfer of teaching and learning from closed University information network to open environment?

- Developing e-content and enhancing e-connectivity thereby enabling co-sharing of information such as classroom lectures, presentations and handouts among students of all the neighbourhood/ regional campuses and constituent/ affiliated colleges of the University.

- Allowing sharing of scientific databases of online herbariums, theses and dissertations in digital format, digitised manuscripts, Gurbani, Punjabi Pedia, online Punjabi dictionaries and access to help centres specially established for the promotion and teaching of Punjabi language and remote access to advanced research facilities available on the campus.

- Sharing of journals, books and research papers across different institutions.

4.4 MAINTENANCE OF CAMPUS FACILITIES

4.4.1 Does the University have an estate office / designated officer for overseeing the maintenance of buildings, classrooms and laboratories? If yes, mention a few campus specific initiatives undertaken to improve the physical ambience.

For supervision and maintenance of a large number of buildings and the campus spreading over 312 acres of land with so many classrooms and laboratories, there is a Construction Wing Department in the University.

The Executive Engineer is the Head Officer of the Department for administrating all the construction/ maintenance/ landscaping related works. The Construction Department also has Sub-Divisional Officers (10) and Juniors Engineers (24) under the Executive Engineer for Campus Construction works, Maintenance works and Horticulture works.

On annual basis, *Annual Maintenance and Repair Estimate* is determined. One SDO is specifically put on the job of repair and maintenance.

Concerned departments are allowed to look into maintenance of buildings, classrooms and laboratories amounting up to Rs. 1 Lakh. The Executive Engineer can take up the maintenance related jobs amounting up to Rs. Fifty Thousand at his decision and up to Rs. Five Lakhs through e-tendering. Construction/ Repair/ maintenance jobs amounting more than Rs. Five Lakhs are carried out through e-tendering system.
A few campus specific initiatives undertaken to improve the physical ambience at the campus are as given below:

- Construction of plinth protection for teaching blocks of engineering departments (Rs. 1,63,711/-)
- Whitewash, plastic paint and snow cement in Punjab School of Law (Rs. 1,33,804/-)
- Construction of passage from Kala Bhawan to Administrative Block-I and to Arts Blocks (Rs. 4,41,154/-)

- Providing and fixing expansion joints in teaching block of engineering departments (Rs. 4,51,117/-)
- Construction of three rooms and providing and fixing interlocking tiles etc. in Publication Bureau (Rs. 6,62,387/-)
- Construction of Canteen for University Students opposite to Pharmaceutical Block (Rs. 4, 76, 383/-) and near Arts Block - IV (Rs. 4,58,288/-)
- Laying of sewerage line for new canteens, construction of round benches (Rs. 2,55,794/-)
- Fixing/ Re-fixing of toughened glass, false ceiling, painting in Main Library (Rs. 1,19,651/-)
- Extension of Library for IAS and Allied Services Training Centre. (Rs. 4,10, 196/-)
- Renovation works such as concrete flooring, dry distemper, aluminum window, entrance door in the Publication Bureau (Rs. 2,49,350/-)
- Constructing college section in Examination Block-I (Rs. 3,94,438/-)
- Providing and fixing cupboards under laboratory tables made of PVC board in Pharmaceutical Science and Drug research Department (Rs. 17, 58, 398/-)
- Providing and laying open graded premix carpet on road from Model School to Arts Block #6 and Arts Block #6 to Stadium (Rs. 23,16,536/-)
- Renovation of room for establishing Director Office for IQAC in Old Examination Building (Rs. 1,80,200/-)
- Providing false ceiling, vitrified tile flooring, PVC wall paneling, aluminum partition etc., providing public health fittings such as chinaware lavatory suites, pedestal, CP Brass Pillar Cock, CP Brass Pillar cock, Towel Rings, Soap Dish etc in Dining Hall of Guest house (Rs. 3,91,500/-).

4.4.2 How are the infrastructure facilities, services and equipment maintained? Give details.

For the lab equipment installed in various departments, the concerned heads of departments/ principal investigators are in charge. In case of any fault developing or occurring, the heads contact the USIC department to carry out the necessary repair work. In case, the repair work is beyond their capacity then the manufacturer/other agencies dealing with the repair of such equipments are given the job of repair. For all this, the sanction of the concerned University authorities is mandatory.

For the equipment at computer centre, personal computers and reprographic material, Director of the University Computer Centre and Head USIC are in charge. Director looks into the efficient working of local area network of the University. For all the equipment at the centre, the centre has its own staff for minor

repairs. For all major repairs, it signs Annual Maintenance Contract with the suppliers and Repair Material Authorization with OEM. Head USIC takes care of all minor repairs related to UPS and reprographic material. The Annual Maintenance Contract exists for the maintenance of reprographic equipment.

The Construction wing of the University headed by the Executive Engineer ensures the maintenance of the buildings, roads and all the supporting facilities provided at the campus. The maintenance of the buildings, civil works, electrical wiring system, internal water supply system, sewerage disposal system and the repair and carpeting of all the roads is regularly done by the office of the executive engineer.

The University spends a massive budget on maintenance, landscaping and horticulture related activities. A big proportion of expenditure is incurred from the earnings of the landscaping and horticulture department.

There are a large number of workshops such as Mechanical Shop, Glass Blowing Shop, Electronics Shop, Optics Shops maintained by USIC department to cater to the needs of various departments.

CRITERION-V
STUDENT SUPPORT AND PROGRESSION

Criterion-V
Student Support and Progression

5.1. **S**TUDENT **M**ENTORING AND **S**UPPORT

5.1.1. **Does the university have a system for student support and mentoring? If yes, what are its structural and functional characteristics?**

Yes,

The University has a well structured student support and mentoring system. The University student support system works in the following structural and functional system:-

- **Online Admission Facility:** The facility of online admission process is being provided to students to get admission on the University Campus. An online portal for submission of applications for admission in different courses on University Campus is functional for all the courses. For courses in which admission is through Entrance Test, the process of admission like submission of application, Admit Card, Results and admission schedule is also monitored through online process.

- **Student Welfare and Support:** The office of Dean Students Welfare (DSW) is playing a leading role to take care of the needs of students. To make the stay of students cosy and comfortable in hostels, the office of Provost is set up which functions in rapport with its team which consists of wardens and senior wardens. To give special attention to the requirements of girl students, Additional Dean, Students Welfare (Girls) and Additional Provost (Girls) are discharging their duties. The office of Dean Students Welfare is doing the needful as it is responsible for the redressal of the grievances of the students. The Directorate of International Students looks after the needs, problems and requirements of foreign students. The student support system also comprises Anti-Ragging Committees, Women Cell, Grievance Redressal Committees, SC/BC Cell, Youth Welfare Office, Placement Cell, Dean, Academic Affairs, Dean of Faculties, Head of the Departments, Controller of Examinations and Teacher Coordinators of various committees. The Ethics Committee, Nodal Officer of Redressal Portal, Students Grievances also look into students' needs. UGC Human Resource Development Centre helps the research scholars to develop writing skills, communication skills and research methodology techniques. Many departments organise educational tours under the supervision of teachers which are helpful in academics as well as in developing personality and leadership qualities among students.

- **Student Welfare Council:** Student Welfare Council is constituted in the beginning of the session by taking representatives from different classes in each department on the basis of merit. One representative each is also taken on the basis of sports, cultural and NSS activities. The council represents student community and looks after the welfare activities of all students. The council also discusses their day to day problems with authorities and tries to sort out the issues raised from time to time.

- **Hostels:** There are total 19 hostels (15 Hostels in main campus) for the students: 9 for boys and the 10 for girls. The Hostels are equipped with modern amenities for the stay of about 6500 students. For Research Scholars some flats are also available which are allocated on the basis of seniority.

- **Anti-Ragging Committees:** As per the directions of Hon'ble Supreme Court, Anti-Ragging Committees have been constituted at the University and departmental levels.

- **Committee for the Prevention of Sexual Harassment of Women:** To protect the modesty and dignity of women, the University has constituted a committee according to the directions of the Hon'ble Supreme court which deals with such complaints.

- **Directorate of Sports: A** sound mind lives in a sound body. To achieve this objective, Department of Sports works for promoting sports activities in the University and its affiliated colleges. It organizes inter-college and inter-university competitions in various games and trains students for participation in Inter-University, National and International competitions. The University has an Indoor stadium, well maintained sports grounds & Velodrome. The coaching facilities for following games are available at the campus: Hockey, Football, Cricket, Cycling and Athletics, Badminton, Yoga, Gatka, Chess, Basket ball, Volleyball, Softball, Netball, Hand ball, Weight-lifting, Power-lifting, Kabbadi, Shooting, Wrestling, Judo, Boxing, Kho-Kho, Gymnastics and Table-tennis. Along with Directorate of Sports two other departments, i.e., Department of Physical Education and Department of Sports Science also look after the physical needs as well as sports activities of students. The students of the University always excel in sports and have won medals at national and international level. **The University has been winning the prestigious MAKA trophy continuously for last six years.**

- **Youth Welfare Department:** The Department of Youth Welfare provides various opportunities for personality development. It organizes cultural activities for youth all round the year. This department also organizes Hiking,

Trekking, Mountaineering, Rock Climbing events, Youth Leadership Training Camps, etc.

- **National Service Scheme:** The Department of NSS works to inculcate the spirit of voluntary work among students and teachers through sustained community interaction. The major activities of NSS on the campus include regular camping programmes, special camping, environmental protection, pollution control, health awareness, adult education, blood donation and many more.

- **Security Services and Transport Department:** A dedicated team of 165 security personnel under the command of the Security Officer provides round the clock security services on the campus. In case of any emergency, students can contact any security guard in uniform or can directly contact the Security officer. For girls students, a women helpline number has been created which works 24 x 7 hours. All the roads, hostel main gates, university main gate and important places are under CCTV surveillance, so that any incident does not go unseen.

  The Transport Department of the University runs a fleet of 6 buses for linking the campus to various parts of Patiala city. Students can travel in these buses by showing their identity cards. In addition to this, 'Yellow-line' private buses also run from 8:00 A.M to 7:00 P.M. Apart from this, concessional bus passes are given to the students, who travel to the university from a radial distance of 60 kms. Hostel facility is given to students coming from the distance of more than 60 kms.

- **Health Centre:** A well equipped Health Centre with qualified physicians and paramedical staff is at the service of the students round the clock. The Centre has a Digital X-ray unit and also a laboratory for medical tests. Students of various teaching departments at the campus are entitled to free medical aid by the University Health Centre. The Health Centre is equipped with the basic necessary and modern equipments. A separate Physiotherapy unit has been established for the treatment of orthopedic ailments.

- **Counseling Cell:** The psycho-social adjustment is becoming a big issue among the youth these days. To handle this, a Counseling Cell for students has been established in the University. This cell is monitored by the Department of Psychology. Counseling and supportive psychological reinforcement is given in this Cell aimed at dealing with self-doubt, reducing stress and raising self-esteem of the students. The confidentiality of the students and their record is maintained with utmost care.

- **Placement Cell:** The University is concerned not only about teaching and training of the students but also about their

future and career. For this purpose, a well equipped Placement Cell has been established which works with the objective of maintaining liaison with the industry and job market for the placement of students from the University, University regional centers and neighbourhood campuses. The Cell is engaged in (i) the arrangement of the summer/on the job training of the students (ii) preparation and publication of the placement brochures highlighting the activities and achievements of the department and brief bio-data of the students including their academic background, projects undertaken by them, area of specialization and participation in extra curricular activities etc. (iii) inviting senior executives from the corporate sector for interaction with the students through extension/special lectures (iv) inviting the companies for conducting the campus interviews.

- **Bhai Kahan Singh Nabha Library:**Bhai Kahan Singh Nabha Library which is housed in a spacious centrally air-conditioned modern building stocks about five lakh books, and subscribes to 464 current research journals and 23 daily newspapers. Latest books are added regularly every year. Library is kept open for 12 hours a day. It has a majestic Reading hall for readers. A separate air-conditioned hall for using the personal books and a Reading Room have been provided at the ground floor. On-line catalogue facility is also available. Dr. Ganda Singh Punjabi Reference Library, which is an integral part of the library, is housed in a new building interlinked with the main building for the convenience of the staff and the users. This part of the library has about fifty thousand books on Punjabi Language, Literature, Punjab History and Culture.

- **University Computer Centre:** The Computer Centre provides central facility to cater to the needs of students, research scholars, faculty and the various wings of the University administration. The Centre has established local area network and all the University Departments have the facilities of Internet and e-mail through this network. The University website- www.punjabiuniversity.ac.in provides rich information about the University which is not only beneficial for student community but also for the outside world. There are four nodal internet access labs maintained by the Computer Centre for the benefit of students.

- **Publication Bureau:** The Publication Bureau has been publishing the research work, books and journals produced by different departments of the University. It has so far published more than 2100 titles on Punjab history, art, culture, theology, literature and sciences. Students can become the members of book club and can avail the facility of 50% discount while purchasing University publications. A book van has been introduced by the University to make the University

publications easily available to the masses.

- **Canteens, Eating Places and Market:** There are 12 canteens and other eating joints on the campus. Happy days Coffee House, Nescafe Coffee Shop and a Verka milk bar are also serving the needs of the University students. Articles of daily use are available at several stores in the market. Students have a right to get quality food and other items and they also bring the shortcomings to the notice of the concerned officials.

- **Other Facilities:** The University has up to date high-tech infrastructure. There are 7 Conference Halls for seminars and conferences. Academic and cultural activities are organized throughout the session in these halls. Daily use facilities like Post Office and Bank branch with ATM are also available at the campus for the convenience of the students.

- **Educational Tours and Trips:** Educational tours and trips are organized around the year for the overall personality development of students. Need based bus service and supporting staff are provided to the students for these tours and trips. For the security and safety of students the concerned department has to seek permission from the concerned authority and female and male teachers accompany the students to escort them.

- Most of the departments appoint class incharges and mentors of the students to guide them for their studies and career.

- **Campus for specially-abled persons:** Special efforts have been made to create infrastructure like ramps, lifts, etc. so that there is no problem for persons with disabilities.

- **Yoga Centre:** The University has Yoga and naturopathy centre, where students practise yoga under the specialized trainers. It helps students to relieve their stress and overcome psychomotor imbalances.

5.1.2. **Apart from classroom interaction, what are the provisions available for academic mentoring?**

- **Debate Club:** The University has constituted a debate club to organize debates, declamation contests, lectures and seminars for improving the debating and communication skills of the students.

- **Literary Clubs:** To develop the understanding about literature, the departments have literary clubs also.

- **Lectures/Workshops:** The University also organizes interactions with eminent academicians for students to gain more skills and knowledge through workshops/seminars in which there is active participation of students. Students are exposed to in-depth subject knowledge and other multilevel

tasks through association activities, special lectures, seminars and workshops organized by different departments.

The University also organizes interactive workshops for students to gain more skills and knowledge. In this regard, workshops for different streams have been organized by Human Resource Development Centre. In these workshops students update themselves on recent trends and developments in the subjects by participating in the training programmes. The student's also present papers in the State/National/ International level seminars & inter-university competitions.

The students of the Department of Dance has contributed in reflecting the cultural ambience & healthy practices of the University youth community through their performances at State, National and International conferences, seminars, symposiums, etc. The faculty members and students of the Department have been contributing in a big way towards this activity which is organized at Inter-state and National level by Association of Indian Universities. *Since the inception of the Department in 2000, the students have been winning laurels for the department as well as for the University at All India level by winning consecutively for the last ten years, gold/silver medals and Dance Trophies at All India Inter University Youth Festival Competitions conducted by Association of Indian Universities, thus projecting the cultural richness of Punjabi University at the national level.*

The Youth Welfare Department of the University organizes cultural activities throughout the year. Punjabi University has won unique distinctions in Youth Festivals organised by the Association of Indian Universities in collaboration with the Ministry of Youth Affairs, Govt. of India, Directorate of Youth Services, Panjab, Directorate of Higher Education, Panjab and Panjabi Academy of Delhi State.

- **Cultural Immersion Programme:** The University organizes cultural immersion programmes for NRI and other foreign students to teach them Punjabi language and culture.

- **Mentors of the Class:** In many departments, particularly in professional courses, the mentors of the classes are appointed to mentor and counsel the students.

- **Evening Classes:** The University also runs evening classes for students of the University for imparting knowledge in foreign languages (German, French, Spanish) and Urdu and Persian. Apart from this, the University offers Certificate course in Yoga for the physical fitness of the students.

- **Techno-Cultural Fest/Crispolatieia:** The Biggest Techno-Cultural Fest of North India was organised by University College of Engineering, (now Department of Engineering)

Punjabi University Patiala. The Sarga 2k14 and Techno Management Festivals are also organized by UCOE Punjabi University, Patiala every year.

- **Events:**
  - Cultural- Dancing, Singing, Rappin, Band Performances, Fashion Show, Bhangra, Giddha.
  - Technical- Robotics , Electronics, Mechanical, Civil, Computer Events
  - Literary- Quiz, Debate, Group Discussion etc
  - Management- Managing Activities
  - Fine Arts- tattoo , t shirt , tile Painting etc
  - Star Performance
  - Podium
  - Prom Night

5.1.3. **Does the university have any personal enhancement and development schemes such as career counseling, soft skill development, career-path-identification, and orientation to well-being for its students? Give details of such schemes.**

Yes, the University has separate cells for this purpose.

- **Counseling Cell:** To handle adjustment, stress related and other psychological problems, a Counseling Cell for students has been established in the University. This cell is monitored by the Department of Psychology. Counseling and supportive psychological reinforcement is given in this Cell aimed at removing the self-doubt, reducing stress and raising the self-esteem of the students. The confidentiality of the student and record is maintained with utmost care.

- **Placement Cell:** Apart from imparting teaching and training to the students, the University has established a well equipped Placement Cell to help them settle in their career. It works with the objective of maintaining liaison with the industry and job market for placement of the students of the University, regional centers and neighbourhood campuses. Due to the high prestige and ranking of the University, the Placement Cell has been successful in facilitating the placement of more than 80% of eligible engineering students.

- **Career Path-Identification and Orientation:** All the professional courses give due consideration to guide students in this aspect. Teachers discuss with students about their aims and objectives in tutorials and help them streamline their skills in which they possess interest and potential and also guide them to excel in their life.

- **University Computer Centre:** The Computer Centre provides central facility to cater to the needs of students, research scholars, faculty and the various wings of the

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University administration. Local Area Network has been established by the University and all University Departments have the facilities of Internet and e-mail through this network. The University website-www.punjabiuniversity.ac.in provides rich information about the University which is beneficial for the student community and for the outside world as well. There are four nodal internet access labs maintained by Computer Centre for the benefit of students.

- **Communication Skill Development:** In many courses, the curriculum includes the paper on the development of communication skills of the students.

- **Research and Skill Development Centre:** TheUniversity proposes to have well established Research and Skill Development Centre whose objectives are:
  o to promote research and development activities in all the branches of engineering studies with the emphasis on the research requiring inter-disciplinary studies, especially the research that involves subjects which are related to two or more than two branches of engineering.
  o to encourage the young researchers, especially the students of bachelor of engineering and masters of engineering. It is very important to keep them well informed about the new and emerging technologies in the respective branches of engineering and to promote their participation in the national and international seminars/conferences. Creating an information system through relevant journals, magazines and different web based publications is quite essential.
  o to educate and provide support to the researchers to apply for patents and seek copy right protection. Also to give them knowledge about the different patenting and intellectual property rights, laws and regulation. The proposed centre will conduct seminars and workshops related to these important areas.
  o to liaison and collaborate with state of art institutions, centres of excellence and industries across the world to provide exposure to the students. To encourage student exchange programmes and knowledge sharing among the engineering students of Punjabi University and students of other relevant institutes.
  o to initiate earn while learn scheme for students by undertaking minor projects from the industry. Setting up of Skill Development Centre to develop necessary skills in the students in their respective trades.
  o to arrange industry- academia interface in order to provide skills to students which are required by industries and companies to make them more readily employable.

- to provide soft skill development training to the students.

- **UGC-HRDC:** It is an inter university institute which caters to the needs of University research scholars to achieve goals of higher education and keep abreast of the latest developments in their specific subjects. The HRDC works towards enriching the knowledge of the students by organizing Seminars/ Workshops with the help of experts invited from different universities of India. The Centre is equipped with latest technology, Computer Lab, two lecture theatres fitted with modern facilities. To develop the research attitude among scholars of the University, HRDC organises workshops on research methodology where experts interact with scholars to set the protocol of research design.

5.1.4. **Does the University provide assistance to students for obtaining educational loans from banks and other financial institution?**

Yes. To enable the poor students to complete their studies without financial difficulties, different schemes for financial assistance in the form of financial aids, funds and fee concessions are available to the needy and deserving students. Students who come under the lower income category and other categories can apply for these schemes. In addition to this, State Bank of Patiala has its branch in the University campus, which is helping the students in this regard. Many departments supply the required documents to students to get loan from banks. The Departments arrange, whenever needed, the meeting with bank officials to sort out financial implications and play the role of liasion officer.

5.1.5. **Does the university publish its updated prospectus and handbook annually? If yes, what are the main issues/ activities/information included/provided to students through these documents? Is there a provision for online access?**

Yes. The system of students' admission is online, transparent and is accessible to all the stakeholders. The University prospectus which is uploaded on the University website provides information regarding:
- The University introduction and infrastructure.
- Departments and Courses
- Procedure of admission to different courses
- Number of seats
- Schedule of admissions
- Fee structure
- Scholarships to students
- Hostels and the rules for the residents

- Schedule of courses for which admission is through Entrance Test.
- Faculty of the departments
- Anti-ragging committees
- Reservation of seats
- Seats for Foreign/NRI candidates
- Refund policy
- Procedure for on-line application
- Hand Book of Information for the Session 2015-16 is available on the website.

The updated prospectus for admission to various academic programmes including the courses in which admission is based on Common Entrance Test is annually published and the detailed information about each course, faculty, rules and guidelines of the University, fee structure, scholarships and other general information is given in it. The information is put on the website of the University for Online Admission Portal www.pupadmissions.ac.in for access to the students and prospective applicants. Separate Handbook of Information of M.Phil., Ph.D., Distance Education Courses & MBA Courses is published and uploaded on the website. This prospectus is published in bilingual languages so that all the admission seekers can clarify their doubts and get the update knowledge about various courses.

5.1.6. **Specify the type and number of university scholarships/ freeships given to the students during the last four years. Was financial aid given to them on time? Give details (in a tabular form) for the following categories: UG/PG/M.Phil/Ph.D./ Diploma/others (please specify).**

The facility of students' aid fund and fee concession is available to the needy and deserving students. Students whose parents' income is less than 1 lakh per annum are eligible for full fee concession and those having income between 1-2 lakhs per annum are eligible for half fee concession and students whose parents' income exceeds 2 lakh per annum are not eligible for financial assistance. Only one kind of financial benefit is given to one student. Physical verification of facts regarding income furnished by the student is done. In case information furnished is found wrong, his/her admission is cancelled.

- **Students' Aid Fund:** The object of this fund is to render financial assistance to poor students to pay their tuition fee or examination fee or to purchase books or meet similar other expenses. Limited assistance is given to the students to meet their hostel, mess, clothing or medical expenses, if their needs are considered genuine.

- **Fee Concession:** Full fee concession (Tuition fee) is available to the needy and deserving students up to 8% of the total number of students in a class. The employees of Punjabi University who are given permission to join the University classes are allowed full fee concession. Benefit of half tuition fee concession amongst two or more children of parents is allowed to the child/children whose course fee (including all funds) is less than the other child/children.

- **Scholarships for SC/ST Students:** Scholarships, stipends and fee concessions as admissible from time to time under the State Harijan Welfare Scheme for students belonging to Scheduled Castes, Scheduled Tribes and other Backward Classes.

- **Single Girl Child:** Students admitted against the Single Girl Child seat in post-graduate courses are eligible to apply for the scholarship under UGC scheme "Post Graduate Indira Gandhi Scholarship Scheme for Single Girl Child" provided that an affidavit from the student duly attested by the First Class Magistrate/Gazetted officer mentioning that she is the only child in the family is submitted.

- **Cancer/Aids and Thalassemia**: The candidate is required to produce a certificate certified by medical institutions like, PGIMR, AIIMS etc. Full fee concession is given to students under this category.

- **Concession for the Children of the Employees of Defence Services and Civilian Personnel are available as under:**
  o The dependents of those defence personnel who were either killed or permanently disabled in the Indo-Pak War/Chinese aggression, whose monthly income does not exceed Rs. 1500/- p.m.
  o In the aftermath of Blue Star Operation, the children of those: (a) killed, missing or wounded/disabled in engagement with troops, police; (b) Awarded sentence of life imprisonment in civil jails with dismissal from service.
  o It has been decided to adopt Punjab Govt. Letter No. 19-2-87, I-Edu.-4, 1386-92, dated 30.4.90 in which there is a provision of full fee concession for the children of those who died while extending help to security forces, and for those who have been rendered 100% handicapped due to riots and the children of Sikh migrants. Following concessions are available to the above-stated persons: (i) Full fee concession by the University Teaching Departments, (ii) Text-books on loan for the duration of the Course from the Text Book Section of the Library (These books are to be returned by them after they have completed the examination); (iii) They get free lodging in the hostel and pay only for their boarding.

- **Scholarships:** Apart from University Merit Scholarships awarded on the basis of M.A./M.Sc. Part-I examination results, students admitted to various University departments are also eligible for the following scholarships:

  o Merit Scholarship under the National Merit Scholarship Schemes sponsored by the Centre and the State Governments.
  o Loan Scholarships under the Government of India National Loan Scholarships Scheme.
  o Scholarships, stipends and fee concessions as admissible from time to time under the State Harijan Welfare Scheme for students belonging to Scheduled Castes, Scheduled Tribes and other Backward Classes.
  o Merit Scholarships awarded on the basis of result of examination conducted by the Punjabi University.
  o Stipends to children/grand-children of Freedom Fighters, Ex.I.N.A. personnel and to those sponsored by the Treasurer, Charitable Endowment, Punjab.
  o U.G.C. Post-graduate Merit Scholarship: This scholarship is awarded to university rank holders both in General and Honours Courses of under-graduate level.

Departmental Merit Scholarships

Scholarships of the value of Rs. 500- each per month, are available for the post-graduate courses, B.Pharm., B.Tech. and LL.B. in the University Teaching Departments (wherever applicable).

UGC National Scholarships for M.A. (Economics)

Ten UGC National Scholarships (4 and 6 in alternate years) of Rs. 300/- per month each are available to the students joining M.A. Economics, Part I who have secured a minimum of 60% marks in B.A./B.Com./B.A. Hons. School course in Economics. The scholarship once granted to a student continues for the duration of the course, subject to his/her satisfactory performance, securing at least 55% marks in Part I and good conduct.

Dr. Hira Singh Deol Memorial Scholarship And Dr. Sawan Singh Gill Memorial Scholarship

- Dr. Hira Singh Deol Scholarship is for M. Sc. (Zoology) Part I
- Dr. Sawan Singh Gill Scholarship is for M.A. (English) Part I

The above two scholarships are awarded to those students who are at number 1 on the basis of admission criteria in their respective classes. The amount of scholarship is Rs. 1000/- per

month and is of two years' duration. If the student at No. 1 on the merit according to the admission criteria refuses to accept this scholarship or leaves his/her studies in between, the same is awarded to the student next in merit of the admission criteria.

Miss Charanjit Kaur Memorial Scholarship

The scholarship is awarded to two girl students of M.Sc. Mathematics, Part-I and Part-II, of the Department of Mathematics on means basis for two years (after six months). The amount of scholarship is divided equally into two girl students.

Dr. S.S. Joshi Memorial Scholarship

This scholarship is for M.A. I (Linguistics) student of the Department of Linguistics and Punjabi Lexicography for 10 months. This scholarship is awarded to the student on the basis of the need cum merit basis at the time of admission. The scholarship once granted to a student continues in the IInd year also subject to his/her securing 55% marks in Part-I and good conduct.

If the amount of the interest is increased more than the scholarship, it is awarded to the student of M.A. Part-II (Linguistics) also on the basis of the need & merit.

Dr. Jeet Singh Sheetal Memorial Scholarship

The scholarship is awarded to one student of M.A. Punjabi (Pass Course & Honours) Part-I of the Department of Punjabi on merit-cum- means basis from the academic session 2012-13 for one year at the rate of Rs. 6000/- annual.

Gian Singh, Laj Rani Chawla Scholarship (For M.A. Punjabi) and Dr. Manmohan Singh, Gian Singh Chawla and Three Sisters Scholarship (For M.Sc. Physics)

Each scholarship is of Rs. 1000/- per month for the duration of two years. The need & merit of the student are taken into consideration while awarding the scholarship. Scholarship once granted to a student continues in the 2nd year also subject to his satisfactory performance in Part I and good conduct.

Justice Iqbal Singh Tiwana Memorial Scholarship (For LL.B. Students)

Each scholarship is of Rs. 1000/- per month per student for the duration of three years (one student from each class, i.e. for First, Second and Third Year). The Scholarship is awarded to a student having a rural background but should have secured the First

position among the students admitted under this category. (The measure of rural background is same which is applicable for the purpose of admission.) The scholarship once granted to a student continues in the Second and Third year also subject to his/her satisfactory performance in academic achievement (in no case, the standard of merit of last examination is to fall below 60%) and good conduct.

Varinder K. Jassal Scholarship

- Varinder K. Jassal Scholarship for M.A. (Economics) Part I & II.
- Varinder K. Jassal Scholarship for M.A. (Business Economics) Part I & II.

  o Amount of each scholarship for M.A./M.A. (Business Economics) is Rs. 1000/- per month per student.
  o The scholarship is awarded on the basis of merit of the student.

Goyal Foundation Topper Award

Goyal Foundation Topper Award is given every year to the topper student of Post-graduate courses under the Life Sciences/ Physical Sciences Faculties and Economics. This award carries a cash prize of Rs. 4000/. The award is given to the student of Physics, Chemistry, Botany, Zoology, Human Biology, Biotechnology, Pharmacy, Forensic Science and Economics respectively who tops in Part-I examination as per first gazette notification.

Professor Jagtar Singh Scholarship for Chemistry, Physical Specialisation

Topper of M.Sc. Chemistry Semester I and II examination in Physical specialisation is awarded Rs. 1000/- per month for a period of ten months. In case the topper of first year refuses to claim the scholarship then it is offered to the next candidate in the merit.

Scholarships for Blind and Handicapped Students

Ten stipends of Rs.500/- each are available for the blind and physically handicapped students of the undergraduate and post-graduate classes provided further that a candidate provides a medical certificate of having 40% Physical disability. The recommendations for award of these stipends are made by a Committee appointed by the Vice-Chancellor.

Smt. Nirmal Kapoor Memorial Scholarship (for Political Science Department)

- The scholarship is awarded to the two girl students (one from M.A. Part-I and one from M.A. Part-II) of Political Science Department on the basis of merit of the student.
- Amount of the Scholarship depends on the interest of Rs. 200000/- deposited in the bank by the Donor.
- The scholarship will be awarded to those students who are brilliant in the study.
- If the eligible candidates get any other scholarship and disown this scholarship the next girl student in the merit is eligible for this scholarship.

Master Ekant Memorial Scholarship

- The scholarship is awarded to M.Sc. (Applied Physics) Part-I and Part-II to the economically weak students on the basis of merit of the student.
- Amount of the Scholarship is Rs. 1000/- per month.
- The scholarship is awarded to a student having a good conduct. If the conduct of the student is found not satisfactory at any time, the scholarship is made available to the student next in order of merit.

Prof. Vikramaditya Singh Scholarship

- There are two scholarships of equal amount of Rs. 10,000/- each annually in Dept. of Mathematics.
- The Scholarships are awarded to the toppers of M. Sc. I and M. Sc. II (in first class) in first attempt.
- In case two students have a same merit; merit of the lower examination is considered.
- If there no deserving student, the amount is transferred to the "Endowment Fund".
- If the eligible candidates get any other scholarship from university/UGC/any other agency, even then the candidate are eligible for this scholarship.

Sh. Hari K. Ahluwalia Sponsored Scholarships

- There are five scholarships of Rs. 1000/- per student per month and are awarded to the students who secure 55% marks in Semester Exam. The scholarships are equally divided among boys and girls in each department.
- If the scholarship holder fails/gets re-appear, or leaves the Department the scholarship is discontinued.

- The scholarship for the second year is awarded on the basis of the merit of first year provided the concerned student secures 55% marks.

There are a few more scholarships schemes offered by the University. Their names and distribution schemes are as fellows:

Golden Hearts Scholarship Programme (For Yadavindra College of Engineering, Talwandi Sabo)

Punjabi University, Patiala has taken a lead in bridging the widening gulf between privileged and under-privileged by imparting technical education to bright students from rural areas. To fulfill the dream of Sri Guru Gobind Singh to make Talwandi Sabo as Guru Ki Kashi, Punjabi University has taken this major step by establishing Yadavindra College of Engineering (YCoE) at its campus at Talwandi Sabo. We are aware that poor parents living in rural areas are unable to afford even the minimum required fee for the Engineering Courses, hence Punjabi University is making efforts to raise interest-free loan scholarships from benevolent donors and institutions. The scheme of scholarship is as follow:

Plan-I

10+2 Class	(Cost per student per annum)
1st Year	Rs. 12600.00
2nd Year	Rs. 12600.00

Plan-II

B.Tech Degree	(Cost per student per annum)
Part I	Rs. 47250.00
Part II	Rs. 47250.00
Part III	Rs. 47250.00
Part IV	Rs. 47250.00
Grand Total	Rs. 214200.00

Teachers Indebtedness Fund

Scholarship of the value of 250/- per month is available for the M. Lib. Course. It is awarded to the first position meritorious student of M. Lib.

B.A. Honours School Course In Punjabi, B.Sc. Hons. School In Economics, and M.A. Honours In Punjabi

Ten scholarships in B.A. Hons School (Punjabi) of value Rs 500/- pm are available. Five scholarships in other class of the value of Rs. 100/- p.m. are available for each course. For these scholarships, a student must have obtained 60% marks in the subject of Punjabi Elective and 50% marks in the aggregate of terminal examination in 10+2 system. The scholarships once granted to a student continue for duration of the 5 years

integrated course in the subject of Punjabi, and 3 years integrated course in Economics subject to his/her satisfactory performance, securing at least 55% marks in the previous annual examination and good conduct.

Professor Joginder Singh Ramdev Scholarship

This scholarship is awarded to a student of B.Lib. of Department of Library and Information Science on the basis of merit-cum-means. The amount of the scholarship is Rs. 1000/- per month.

Jaspreet Singh Memorial Scholarship

This scholarship is awarded to a student of LLB Part-I and Part-II of the Department of Law. This scholarship is awarded to the students on the basis of merit-cum-means. The amount of the scholarship is Rs. 1000/- per month per student.

S. Prithi Raj Pal Singh Bedi Memorial Scholarship

This scholarship is awarded to a student of the Department of Defence and Strategic Studies on the basis of merit-cum-means for the duration of two years. This scholarship once granted to a student continue in 2nd year also. If the scholarship holder gets re-appear in the 1st year, the scholarship is discontinued and the same is offered to the next student on the basis of merit-cum-means. The amount of the scholarship is Rs. 1000/- per months per student.

Bibi Sharanjit Kaur Memorial Gold Medal For History Department, S. Mohinder Singh Memorial Gold Medal For Punjabi Department, Sardarni Waryam Kaur Gold Medal For Biotechnology Department

These three Gold Medals of Punjabi University, Patiala pertaining to Department of History, Punjabi and Biotechnology are instituted by Dr. Madanjeet Kaur. These three Gold Medals are awarded to the topper students of the respective Departments on the occasion of Annual Convocation as per previous rules and regulations.

Detail of number of Scholarship/Freeships given to the students during the last six years is given below:

Year	2008-09		2009-10		2010-11		2011-12		2012-13		2013-14	
Categories	No. of Students	Amount (Rs.)	No. of Students	Amount (Rs.)	No. of Students	Amount (Rs.)	No. of Students	Amount (Rs.)	No. of Students	Amount (Rs.)	No. of Students	Amount (Rs.)
U.G.	7	8400	11	23375	35	445107	84	255000	54	167500	65	198500
P.G.	43	129908	73	348198	109	475182	103	538500	122	520732	93	528430
M. Phil.	-	-	-	-	4	33307	7	66500	10	88700	9	90720
Ph.D.	-	-	2	28500	-	-	-	-	-	-	-	-
Dipl.	1	300	-	-	-	-	-	-	-	-	-	-
Others			-	-	-	-	-	-	-	-	-	-
Total	51	138608	86	400073	148	953596	194	860000	186	776932	167	817650

5.1.7. **What percentage of students receive financial assistance from state government, central government and other national agencies (Kishore Vaigyanik Protsahan Yojana (KVPY), SN Bose Fellow, etc.)?**

List of financial Aid/Scholarships available to the student.

Sr. No.	Name of Scheme	No of Students
1.	UGC Research Fellowship in Sciences for Meritorious Students(BSR/Fellow @ Rs 14,000/- , 16,000/- & p.m. +20 %HRA) Physics: 02 Zoology: 2 Biotechnology: 03 Chemistry: 03 Botany: 6 Human Genetics: 5 Forensic Science: 5 Zoology& Environmental Sciences: 5 Pharmaceutical Sciences: 5	36
2.	**UGC open Fellowship** (Fellowship @ JRF = 25,000 SRF=30,000 + 20% HRA) Botany = 07 CAMS = 1 Chemistry = 6 Commerce = 25 Defense and Strategic Studies = 1 Distance Education=6 Economics=23 Education=2 Education & Community Services = 16 English = 1 Forensic Science=16 Geography = 1 Guru Gobind Singh Dept. of Religious Studies = 1 Hindi = 5 History = 3 Human Genetics = 5 Law = 11 Library & Information Science=1 Mathematics = 3 Music = 4 Pharmacy =1 Physical Education = 2 Political Science = 1 Psychology = 3 Public Admn. = 1Punjabi = 72 Regional Centre Bathinda = 8 Regional Centre Mohali = 5 Religious Studies = 27 Sanskrit = 2 School of Mgt. Studies = 49 Social Work = 1 Sociology = 4 Sri Guru Granth Sahib Studies = 1 Tht. & T.V. = 3 Urdu, Persian and Arabic = 1 USAM = 1 Zoology = 6	326

3.	**UGC Rajiv Gandhi Fellowship** (Fellowship @ JRF=25,000 SRF=30,000 + 20% HRA) Linguistics =02 Public Admn. = 02 Chemistry =1 Botany = 2 Zoology = 5 Music = 3 Punjabi = 9 Hindi=2 Political Science = 8 Pharmacy =1 Religious Studies = 2 Biotechnology = 03 Theatre =1	42
4.	ICMR Open Fellow (Fellowship @ 16000/18000 per month + HRA)	09
5.	DST Inspire (Fellowship @ 16000/18000 per month + HRA)	14
6.	ICHR Open Fellowship (Fellowship @ 16000/18000 per month + HRA)	14
7.	CSIR Open Fellow (Fellowship @ 16000/18000 per month + HRA)	05
8.	ICSSR (16000/-, 13000/-, 10000/-	35
9.	Maulana Azad Scholarship (Fellowship JRF @ 25,000 SRF @28000)	98
10.	Post Matric Scholarship, Actual Fee	4364

All financial aid is released well in time to the students. All SC/ST students, the income of whose parents is less than Rs. 2.50 lakh get post-matric scholarship and the university does not charge any fee from these students.

5.1.8   Does the university have an International Student Cell to attract foreign students and cater to their needs? :

Yes. During the last two years more than 100 international students joined this university and took admission in different courses. Additional seats have been created for admission in all the programmes/courses run by the University for international students, who have been:

• Sponsored by government agencies such as ICCR, Ministry of HRD etc.

• Sponsored by their respective governments/embassies as per the MoU signed by them with Punjabi University, Patiala.

• Recommended by their respective governments under self supporting category.

Following structure is created to look into the requirements of international students:

Single window admission service	**Yes**, by Directorate of International Students office
Foreign students office	**Yes**, A Directorate of International Students has been established Director, International Students provides guidance and extends help in resolving their problems.
Special accommodation	**Yes** Separate Air conditional Hostel with wi-fi, common room and all basic amenities is provided to foreign students.
Induction course	**Yes** Language learning and other help is provided on demand
Socio-cultural activities	**Yes** The University organizes many activities through which these students interact with other students. Foreign students are encouraged to participate in all socio-cultural and sports activities organized at the departmental and university level.
Welfare programmes	**Yes** Guidance and help is provided to the foreign students for the procedures of registration, police verification, getting financial aids etc. Need based secretarial help is also provided to the foreign students
Any other (specify)	To deal with difficulties of communication and day to day problems, the local students are encouraged to act as guides and to provide help.

5.1.9. **Does the university provide assistance to students for obtaining educational loans from banks and other financial institutions?**

Yes. Please refer to 5.1.4.

5.1.10. **What types of support services are available for**

- **Overseas Students:** PleaseRefer to 5.1.8 above

- **Physically challenged/differently abled students**

  The infrastructural facilities are provided. Almost every building is attached with ramps and passages to access offices. These students are also allowed to use vehicles at specified places. There is reservation of 3% seats and relaxation of 5% marks in eligibility for admission. Scholarships, financial aid, hostel seats are made available for them. Braille system in library is available to visually handicapped. The students guides are also provided (class mates & hostel mates) to differently abled students.

- **SC/ST, OBC and economically weaker sections**

  For SC/ST students, 25% seats are reserved in all courses and a relaxation of 5% marks is also given while determining eligibility criteria. Concession is also given in tuition fee and hostel fee. Fee is not charged from SC students whose family income is upto Rs. 2.50 lakh. Free books are also made available through library.

  Free coaching to the economically weaker sections and SC/ST and OBC students for competitive exam, UGC NET exam and for other exams is provided. 100 seater hostels for SC/ST girls has been completed. One Hostel for boys (Bhagat Puran Singh Hostel) and one for girls (Amrita Shergil Hostel) have specifically been built for SC/ST candidates.

- **Students participating in various competitions/conferences in India and abroad**

  UGC sponsored Career and Counseling cum Placement Cell is established to enhance the employability of the students and help them secure a suitable employment. It Identifies suitable potential employers and helps them achieve their desired goals. IAS Coaching Centre and NET Coaching are functioning well to prepare our students for various competitive examinations.

  All the students of Punjabi University, who have participated in various cultural activities since the inception of the Youth

Welfare Department can become its members. The Staff accompany the students who participate in various inter-university, state level and national level competitions/ conferences and the University bears expenses of the economically backward students.

- **Health centre, health insurance etc.**

  A well equipped Health Centre with qualified physicians and paramedical staff is at the service of the students round the clock. The Centre has an X-ray unit and also a laboratory for medical tests. Students of various teaching departments at the campus are entitled to free medical aid by the University Health Centre. The Health Centre is equipped with basic necessary and modern equipments. A separate Physiotherapy unit has been established for the treatment of orthopaedic problems.

- **Skill Development (spoken English, computer literacy, etc.)**

  To increase communication skills, fluency in spoken English and Interview preparation competitions are organised among students. The University has been conducting workshops under inter-disciplinary programmes from time to time.

- **Evening Classes:**

  University also runs evening classes for students of the University for imparting knowledge in foreign languages (German and French).

- **Performance enhancement for slow learners**

  Teachers personally help the students in their rooms.

- **Exposure of students to other institutions of higher learning/corporate/business houses, etc.**

- **Publication of student magazines**

  Please Refer 5.3.4 below.

- **Soft Skill Development Programme:**

  School of Management, Punjabi University, Patiala has conducted many soft skill development programmes. The programme is making a difference in terms of skill development of the students, teaching pedagogy and evaluation pattern with main focus on continuous evaluation of the students. There is a provision of workshops on soft skills,

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personality development, communication skills and the development of presentation skills of the students to prepare them for the new age jobs of the present day global and domestic business. Keeping in view the employability scope and the demand in the market, the department also offers a unique Five Year Integrated MBA Programme in Financial Markets jointly with the National Stock Exchange of India to the students who opt for the above flagship programme by having some NCFM courses in the Financial Markets.

- **Hostels**

  There are total 19 hostels (15 hostels in the main campus) for the students: 9 Hostels for boys and 10 Hostels for girls. The Hostels are equipped with the modern amenities for stay of about 6500 students.

- **Directorate of Sports**

  Physical fitness is essential for mental fitness. The Department of Sports works for promoting sports in the University and its affiliated colleges. It organizes inter-college, inter-University competitions in various games and trains students for participation in Inter-University, National and International competitions. The University has an Indoor stadium, well maintained sports grounds & Velodrome. The coaching facilities for following games are available at the campus: Hockey, Football, Cricket, Cycling and Athletics, Badminton, Yoga, Gatka, Chess, Basket ball, Volleyball, Softball, Netball, Hand ball, Weight-lifting, Power-lifting, Kabbadi, Shooting, Wrestling, Judo, Boxing, Kho-Kho, Gymnastics and Table-tennis. Along with Directorate of Sports two offer other departments, Department of Physical Education and Department of Sports Science are looking after the physical exercise needs of the students.

- **University Computer Centre**

  The Computer Centre of the University provides central facility to cater to the needs of students, research scholars, faculty and various wings of the University administration. The Centre has established local area network and all University Departments have the facilities of Internet and e-mail through this network. The University website- www.punjabiuniversity.ac.in provides rich information about the University which is not only beneficial for student community but also for the outside world. There are four nodal internet access labs maintained by Computer Centre for the benefit of students.

The University emerged as a pioneer podium in the state to extend campus wide internet facility way back in the year 1996. It extended the facility through thick/thin Ethernet currently banking upon robust 20+ km of fibre optic backbone supported through 1 GB fibre/10 GB fibre links. The University has dedicated 15 Mbps 1:1 uncompressed bandwidth for Internet facilities from M/s Quadrant Televentures Limited, Mohali. Rs. 3.01 Lac are being incurred on the service being provided for the period of 1 year w.e.f. January, 2015. In addition, 155 Mbps bandwidth is made available under NKN-NMEICT project of MHRD. Rs. 50 Lac are being incurred on the service being provided for the project of 10 years w.e.f. December, 2010. There are 1:1 leased line connection available on fibre links/Copper links resulting in unlimited 24x7 connectivity. In the main campus, the facility has been extended to all the departments, administrative branches, hostels, research scholar flats and guesthouses through fibre links.

Now the individual departments are making use of this facility for accessing online resources, electronic formats of theses and dissertations available in the repository of Shodhganga (Inflibnet-UGC), NPTEL study material and many more.

A modest facility has been set-up using 10x Optical Zoom Life Sciences PTZ motorised Camera with 45 to 120 degree horizontal and vertical focussing, 42" LCD Monitor, through in-built Skype connection/on direct IP based connection to communicate with far-end user. Presently it is on one to one communication. This facility is being intensively used for Online Examinations, Ph.D. Registration and submission, Viva-Voce, Interactive Lectures, Placement Interviews and Meetings.

The Campus Backbone is primarily being used to access On-line Journals, Library ERP, Net Surfing, Internet Applications, Online Examinations, Placement of Students, Online Admissions, Hostel Administration and Surveillance.

5.1.11. Does the university provide guidance and/or conduct coaching classes for students appearing for Civil Services, Defence Services, NET/SET and any other competitive examinations? If yes, what is the outcome? : Yes

The I.A.S. & Allied Services Training Centre, Punjabi University, Patiala, is one of the leading institutions of Northern India. It imparts coaching to the candidates of reserved categories and General Category for the Central Civil Services (I.A.S.), P.C.S. (Judicial), P.C.S. (Executive), B.D.P.O., D.S.P., C.D.S., P.O.

(Banking Services), N.E.T.(U.G.C.), M.B.A./M.C.A., P.M.T., C.E.T., B.Ed., LL.B. (3 years Course), LL.B. (5 years Course) Examinations & Entrance Tests. It was established in 1988 and was attached to the Pre-Examination Training Centre for Competitive Examinations (Ministry of Social Justice and Empowerment, Government of India) for Weaker Sections (Including Scheduled Castes, Other Backward Classes and Minorities i.e. Sikhs, Muslims, Christians, Bodhis and Zoroastrians) which has been conducting the above stated courses and functioning successfully since 1970. Both the Centres complement each other in their operational functioning. Over the entire span of its existence, the Institute has acquired not only the basic infrastructure, expertise and innovative techniques but also a fair reputation for its pioneering good work and singular achievements.

The centre has conducted following coaching programme during 2012-2013 to 2013-2014:-

Sr. No.	Name of Programme	Duration	No. of Candidate Appeared		Successful Candidates	
			2012-13	2013-14	2012-13	2013-14
1	IAS (Preliminary)	4 Months	158	137	-	-
2	UGC (NET)	3 Months	62	115	03	-
3	P.C.S. (Judicial)	3 Months	45	05	05	01
4	P.C.S. (Executive)	3 Months	263	161	11	15
5	M.B.A./MCA (Entrance Test)	2 Months	06	-	04	-
6	P.M.T.	2 Months	12	-	05	-
7	C.E.T.	2 Months	04	-	03	-
8	C.T.E.T./S.T.E.T.	2 Months	23	72	-	05

5.1.12. **Mention the policies of the university for enhancing student participation in sports and extracurricular activities through strategies / schemes such as**

- **Additional academic support and academic flexibility in examinations**

    Five additional sports seats are reserved for outstanding sportspersons in all courses and ten seats are reserved in all the courses of physical education running under Punjabi University Patiala, in the neighbourhood campuses, Punjabi University Campus and all the affiliated colleges. The criteria for these seats are as under:
    o The sportsmen/women those who represented India in the International Tournaments/ Meets/ Competitions/ Championships conducted by the recognized Inter-national Federations/ Committees.

- o The sportsmen/women who won 1st, 2nd or 3rd position in Senior National Tournaments/Meets/ Championships.
- o The sportsmen/women who won 1st, 2nd or 3rd position in All India Inter University Tournaments/Meets/ Championships.
- o The sportsmen/women who won 1st, 2nd or 3rd position in Junior National Tournaments/Meets/ Championships.
- o The sportsmen/women who won 1st, 2nd or 3rd position in School National Tournaments/ Meets/Championships.
- o The students admitted under outstanding sports category are entitled free education and other benefits.

For sportspersons who have participated in the camps/ competitions at state/ inter-college/ national/ intervarsity, international levels are given benefits of all days of the camps, journey days and all competition days. These sportspersons are given the benefit of 5 marks in each subject. In case of NCC/NSS activities at state or national level the benefit of 10 and 15 days respectively is given.

For all the teaching courses being run in the University, 30 (thirty) additional seats are provided for those candidates who have excelled and outperformed by their participation in the Youth Festivals of Inter-university at national level. Additional seat are deemed to have been created for such meritorious candidates desirous of admission in a particular course.

The special hostels are built to accommodate the sports persons.

- **Special dietary requirements, sports uniform and materials**

The Sports Department conducts Coaching Camps in all sports disciplines. During these Camps the participants are provided diet worth Rs. 200/- per head per day and Coaches are provided Rs. 500 per day. During the competition period and journey period, all the sports persons are provided Rs. 250/- per head per day. The players are provided playing kit, track suit etc. worth Rs. 5,000/- per head.

Facilities provided to the students are as under:-

- o Students participating in sports and cultural activities are provided free diet, uniform and guidance.
- o Sports uniform and sports kits to the participants are made available.
- o For enhancement of students' participation in sports and cultural activities, free coaching camps are organized by their respective departments

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        o   All infrastructure facilities for indoor and outdoor games are provided

5.1.13. **Does the university have an institutionalized mechanism for students' placement? What are the services provided to help students identify job opportunities, prepare themselves for interview, and develop entrepreneur-ship skills:**

Yes. The University has established the following Cells to facilitate the students in this regard**:**

- **Placement Cell:** The University has a well established and Centralized Placement Cell, which conducts various activities for the students. The Cell works towards enriching the knowledge of the students by organizing Seminars/ Workshops/Webinars/Classes with the help of experts invited from the Industry/Senior or retired Professors.

- **Counseling Cell:** To handle adjustment, stress related and other psychological problems, a Counseling Cell for students has been established in the University. This Cell is monitored by the Department of Psychology. Counseling and supportive psychological reinforcement is given in this Cell aimed at removing the self-doubt, reducing stress and raising the self-esteem of the students. The confidentiality of the student and record is maintained with utmost care.

5.1.14. **Give the number of students selected during campus interviews by different employers (list the employers and the number of companies who visited the campus during the last four years).**

Campus Placement

Year	No. of Jobs offered
2008	401
2009	365
2010	253
2011	424
2012	383
2013	125
2014	334

Job Identification Detail

2008

Sr. No.	Name of Organization	Sr. No.	Name of Organization
1	Infosys	28	Hypercity
2	Accenture	29	ICICI Prudential
3	Wipro Technologies	30	Max New York
4	Tech Mahindra	31	HCL Infosystems
5	Satyam	32	HDFC Bank
6	Atos Origin	33	Dalmia Cement
7	Aditi Technologies	34	Frankfin
8	Infogain	35	Matrix
9	John Deere Technology Centre India	36	TATA Tele Services
10	HCL Infotech	37	IDBI Bank
11	Osram	38	Standard Chartered Bank
12	Sierra Atlantic	39	Magma Finance
13	L&T Infotech	40	Indiabulls
14	JK Technosoft	41	Berger Paints
15	Newgen	42	Union Bank of India
16	HCL Technologies	43	SBI
17	M-phasis	44	Budget Signs
18	FEAST (Incubation Cell, IITB)	45	Cantabil
19	Eicher Tractors Ltd.	46	Woodland
20	International Tractors Ltd.	47	Punjab Agro
21	PunCom	48	Infosys Technologies
22	Tyco Valves & Controls Ltd.	49	Computer Science Corp.
23	Nestle India Ltd.	50	Wipro-BPO
24	Dabur India Ltd.	51	HCL Comnet
25	ICICI Bank	52	Carpart-NGO
26	Genpact	53	Jubiliant Chemsys
27	Asian Paints	54	SBI Mutal Fund

2009

Sr. No.	Name of Organization	Sr. No.	Name of Organization
1	TCS	20	Jupiter International Ltd.
2	Infosys	21	Frankfin Ltd.
3	Tech Mahindra	22	IDBI Bank Ltd
4	Atos Origin	23	Mahindra Finance
5	Aditi Technologies	24	Bharti Retail Ltd.
6	Infogain	25	HDFC Bank Ltd.
7	Oriental Structural Engineers	26	Bharti AXA
8	FEAST (IIT Mumbai)	27	Barclays Bank
9	Wipro BPO	28	Birla Sun Life
10	Soma Enterprise	29	Hybrid Cycle

11	Emerson	30	Sakarni Pop
12	L & T Infotech -JC	31	Castrol
13	Honda Scooters & Motorcycles Ltd.	32	Duke
14	Swaraj Mazda Ltd.	33	Lenovo
15	Agri King Tractors Ltd.	34	SBI
16	Quark	35	Hash Biotech Ltd.
17	Chitkara University	36	Religare
18	Hindustan Times (Dept. level at USBS)	37	Petron Engineering Ltd
19	Anagram Capital Ltd.		

2010

Sr.No.	Name of Organization	Sr. No.	Name of Organization
1	Infosys	10	Quark-JC
2	Tech Mahindra	11	Cognizant
3	Akash Education Services	12	Oriental Bank of Commerce
4	Newgen	13	SBI Life Insurance
5	TCS	14	Indiabulls Securities (Dept. level at SMS)
6	Oriental Structural Engineers	15	Swaraj Mazda Ltd. (HR Dept.)
7	Wipro-JC	16	Aditya Birla Money Mart Ltd.
8	Paxcel Technologies	17	Jupiter International Ltd.
9	Patni Computers	18	Jubiliant Chemsys

2011

Sr. No.	Name of Organization	Sr. No.	Name of Organization
1	Indian Army (Short-listing for SSB - UES)	13	Cummins India Ltd. (JC at LPU)
2	SML Isuzu Ltd.	14	Asia Motor Works (JC at LPU)
3	Honda R&D Ltd.	15	M&M Swaraj Tractors
4	Infosys	16	L&T IES (JC at LPU)
5	Tech Mahindra & Mahindra Satyam	17	International Tractors Ltd.
6	Newgen	18	HDFC Bank
7	Emerson Design Engineering Centre	19	SEL Mfg.
8	Birlasoft	20	Dabur India Ltd.
9	TechAhead Software Pvt. Ltd.	21	Akash Education Services Ltd.
10	Ashok Leyland (JC at LPU)	22	JSW Steels
11	Guru Nanak Education Trust	23	Juilant Chemsys

2012

Sr. No.	Name of Organization	Sr. No.	Name of Organization
1	Indian Army (Short-listing for SSB- UES-PFY)	11	HCL Comnet
2	Infosys	12	Emerson Information Technology Solutions
3	Indian Army (Short-listing for SSB- UES-FY)	13	Atos India
4	L&T Infotech	14	Ionnor Solutions
5	Tech Mahindra/ Mahindra Satyam	15	NCR Corporation India Pvt. Ltd.
6	Newgen Software Technologies	16	SIMS (Executive Ship Management Pte. Ltd.)
7	Dell Services	17	Volvo-Eicher
8	SML Isuzu Ltd.	18	HDFC Bank
9	Honeywell		
10	Open Access Tech. India		

2013

Sr. No.	Name of Organization	Sr. No.	Name of Organization
1	Indian Army (Short-listing for SSB UES-22-PFY)	5	Emerson ITS
2	SIMS (Executive Ship Mgt. Pte. Ltd.)	6	Akash Education Services Ltd. (AESL)
3	Infosys	7	Sagacious Research
4	Newgen	8	Indian Army (Final Selection through SSB)
9	Groz-Beckert	12	DCM Engineering
10	Paxcel Technologies	13	Zee news Punjabi
11	Tech Mahindra		

2014

Sr. No.	Name of Organization	Sr. No.	Name of Organization
1	Samundra Institute of Maritime Studies	17	Tech Mahindra
2	Infosys Ltd.	18	Aon Hewitt
3	Newgen	19	TATA Consultancy Services Ltd.
4	Emerson ITS	20	Medley Marketing Pvt. Ltd.
5	Kayako	21	Indian Navy
6	Arcadian Technocrats	22	Bebo Technologies
7	Seaworld Maritime	23	Bulls Eye
8	Hewlett Packard	24	Tata Telecommunication

9	Nipunn Engg. & Techno Consultants Pvt. Ltd.	25	Vishal Mega Mart
10	JSW Steels Ltd.	26	India mart
11	Sagacious Research	27	Step Up Placement Company
12	Open Access Tech. India (OATI)	28	Infosys
13	Cognizant	29	Akash Education Services
14	Asahi India	30	Vedanta TSPL
15	Indo Surplus Websmiths	31	Airtel
16	Akash Education Services Ltd.		

5.1.15 **Does the university have a registered Alumni Association? If yes, what are its activities and contributions to the development of the university?**

YES (but not registered).

There is a Dean, Alumni Association who is regularly working for this purpose. Alumni Association organizes their meets from time to time. During such meets, a platform is provided to the Alumni to interact with one another and share their experiences.

Alumni of the University from all over the world are contributing to the development of the University in the form of donations, advice, consultancy, academic help, administrative and political help.

Through the establishment of the Punjabi University Alumni Association, Punjabi University is heading towards the fulfillment of its duty to provide a platform which is very essential and aims at multi-dimensional objectives. Punjabi University always feels proud of its entire alumni who, after gaining education and knowledge from here, have achieved glorious heights in different fields; have earned great name in home and abroad and have set beautiful landmarks of human ideals.

- **Aims and objectives**

  The following are the aims and objectives of the Association:

  o To foster a spirit of brotherhood and comradeship amongst the alumni of the University.
  o To arrange and collect funds for the development of the University.
  o To arrange social and cultural functions.
  o To further the interests of the Punjabi University, Patiala in general.

- To provide a forum for the alumni of the University for exchange of ideas and views on educational, cultural, social and academic problems of the day.
- To publish literature, papers and journals for the fulfillment of the objects of the Association.
- To look after the interest of the alumni of the University.
- To open branches of the Association.
- To do all other acts in furtherance of the objects of the association.

- **Executive Council**

  The Executive Council of the Association consists of 21 members, including the office-bearers. Three or more members of the Executive Council are nominated by the Patron. The immediate outgoing General Secretary is an ex-officio member of the Executive Council. The Executive Council frames the bye-laws of the Association. The term of the Executive is three years.

5.1.16 **Does the university have a student grievance redressal cell? Give details of the nature of grievances reported. How were they redressed?**

YES.

The University has students grievance redressal cell which works at various levels. At department level, the department has redressal cell where student nominees and faculty member sit together and discuss the problems which arise from time to time and sort out the issues. The University calendar includes Students Union at University level. The election of this union was held upto 1983 and after that the Punjab Government banned the Student Union Elections in Punjab. The University has Student Council for whole campus which is addressed by the Dean, Student Welfare, Provost and the nominees from all the departments. They discuss various problems raised by the students time to time. This committee solved almost 26 cases during the last two academic sessions. Further, the Dean Student Welfare has a Discipline Committee consisting of faculty members who look after the indiscipline cases of students. This committee handled 6 cases during the last two academic years. Hostel Wardens, Senior Wardens faculty officer, and the representatives of students address the students' problem in relation to lodging, boarding and discipline issues at hostel level. These cases are maximum in number. The committee for such cases consists of Provost, Warden and faculty members of concerned department. The number of such cases was 178 during the last two academic years.

The University has Grievances Redressal Cell looking into varied students' complaints regarding Examinations, Hostels, Fees, various other academic related issues. Most of the grievances are redressed at departmental level and a few remaining problems are redressed at the University level. As far as the Examination and Fee related grievances are concerned, the University has in place Web-based grievance-monitoring system to redress the examination-related queries in a time-bound manner. The facility is available to all the students studying in the Punjabi University and its affiliated colleges.

The details of the nature of grievances reported are: Regarding the roll numbers, degree certificates, result-related inquiry, re-evaluation, fee-related inquiry, correction in form, wrong subject, problem in examination form and submission of documents, etc. The concerned branch has been redressing the grievances on day-to-day basis and disposes these within one week of working days, thereby speeding up the grievance-redressal process.

In totality, more than 250 grievances, concerning boarding, lodging, fee concession, indiscipline, transportation etc. were redressed during the last two years.

5.1.17.   **Does the university promote a gender-sensitive environment by (i) conducting gender related programmes (ii) establishing cell and mechanism to deal with issues related to sexual harassment? Give details**

Yes.

Punjabi University, Patiala has a well established Women's Studies Centre to address women's issues in higher education and to ensure a commitment to the empowerment of women. The Centre regularly conducts gender related programmes.

The University promotes a gender-sensitive environment by organizing seminars/ workshops where gender inequity issues are discussed.

Additional Dean, Students Welfare takes care of gender sensitivity in regard to girl students, particularly girls residing in the hostels.

Women's Studies Centre, Punjabi University, Patiala celebrates International Women's Day. The University Women Club is also functioning in the University. The University Women's Club in association with the Women's Studies Centre has organized many events.

Committee for the Prevention of Sexual Harassment of Women: To protect the modesty and dignity of women, the University has constituted a committee according to the directions of the Hon'ble Supreme court which deals with such complaints.

5.1.18. **Is there an anti-ragging committee? How many instances, if any, have been reported during the last four years and what action has been taken in these cases?**

Yes, Anti-Ragging Committees are constituted by the University. Detailed information with regard to anti-ragging rules and committees is provided. A special 'Welcome Pamphlet' is provided free of cost to all first year students giving the details of the facilities provided by the University. Online directory is available on University website. The details of concerned officials along with the telephone and mobile numbers and other required information is also provided on the website.

Special meetings of all the first year students are organized for introducing them with the university administrative team in the beginning of session. Vice-Chancellor and Dean, Students Welfare, Additional Dean, Student Welfare (Girls), and Provost interact with newcomers. They are explained about their rights, duties and the procedures of getting facilities during their stay at the campus.

5.1.19. **How does the university elicit the cooperation of all its stakeholders to ensure the overall development of its students?**

- **Alumni Association:** This association involves the Alumni of the University with the development of University Campus and Regional Centres from time to time. The cooperation of Alumni is taken for the development of students.

- **Parents:** The parents of the students are called to apprise them in regard to the activities of students whenever there is the need. At the Convocation of the University, the parents of students are allowed to participate. Many times to solve the problem of hostel residence, the cooperation of parents is taken.

- **Students:** The students are involved in many types of academic, cultural and technical competitions. In many issues the discussion are held with the students.

- **Teachers:** The teachers are members of many committees and bodies of the University. Through the committees and bodies of the University the cooperation of University teachers is taken to ensure the overall development of students.

- **Companies**: As stakeholders the companies are being kept in touch through placement cell.

- **Panchayats:** The University is running 6 neighbourhood campuses in the villages to cater to the needs of rural students. In these activities Gram Panchayats are cooperative with the University and many Gram Panchayats have donated the land for the education of rural students.

- **Employees:** The employees are also involved in decision making processes with regard to students.

5.1.20. **How does the university ensure the participation of women students in intra- and inter-institutional sports competitions and cultural activities? Provide details of sports and cultural activities where such efforts were made.**

The efforts have been made by the University to ensure the participation of women in sports activities. International Women's day is celebrated by conducting competitions and by inviting distinguished women to deliver inspiring lectures. Women are encouraged to participate in all sports and cultural activities. They are given special attention and consideration, with the motivational support of women faculty members. The women sports are organized in the University sports ground every year and women are also encouraged to participate at inter university level and state level sports competitions.

A lady Deputy Director Sports has been appointed to encourage the participation of women students in sports.

The other efforts made by the University to ensure the participation of women in sports activities are given below:
- Conduct of various tournaments such as Inter-Hostel, Inter-Department, Inter-College, Inter-University, Open Championships.

- Special sports hostel competitions to accommodate the girl players

- Appointment of female coaches

- A.C. Hostel for Women Sports Persons.

The women students are also encouraged to participants in cultural competitions/activities.

5.2. STUDENT PROGRESSION

5.2.1. What is the student strength of the university for the current academic year? Analyse the Programme-wise data and provide the trends for the last four years.

Current Strength

Category	Male	Female	Total
General	5615	5867	11482
SC	1107	934	2041
ST	8	11	19
OBC	287	256	543
Other	267	211	478
Grand Total	**7284**	**7279**	**14563**

Analysis (Programme-wise)

Student Progression	Percentage				
	2009-10	2010-11	2011-12	2012-13	2013-14
UG to PG	83.56	39	39	47	43.53
PG to M.Phil.	3.44	1.50	2.02	2.01	2.29
M.Phil. to Ph.D.	8.85	9.88	3.05	2.49	3.13

5.2.2. What is the programme-wise completion rate during the time span stipulated by the university?

The programme-wise completion rate during the time span stipulated by the university is about 80% to 99% for various UG/PG/Ph.D programmes on the campus. Overall dropout rate at University level is between 0.66% to 4.94% in different courses, on account of getting jobs, shifting to other institutes or in some cases, girl students getting married.

Overall dropout rate at Post Graduate level is 5% and at Under-Graduate level is 9%.

5.2.3. **What is the number and percentage of students who appeared/ qualified in examinations like UGC-CSIR-NET, UGC-NET, SLET, ATE / CAT / GRE / TOFEL / GMAT / Central / State services, Defense, Civil Services, etc.?**

Following are the details of the students who appeared/qualified for UGC-CSIR-NET, SLET, IAS/TOEFL/GRE//Centre state services through competitive examination:

Name of the Examination	Qualified Students
NET	449
SLET	2
TOEFL	20
GRE	2
IAS & Allied Services	13
Defence Entrance	29
Other Services	57
Any other	58

Note: The actual number may be more as this information pertains to those students who have given information voluntarily.

5.2.4. **Provide category-wise details regarding the number of Ph.D./ D.Litt./D.Sc. theses submitted/accepted/resubmitted/rejected in the last four years.**

Approximate 1005 Ph.D. theses submitted during the last six years. On an average 175-200 students submit their theses every year and 10 students during the last four years were asked to re-submit their theses. No thesis has been rejected during the last four years. Number of Ph.D. Degrees Awarded is:

Year	No. of Ph.D. Degree Awarded
2008-09	116
2009-10	124
2010-11	166
2011-12	152
2012-13	223
2013-14	224

Degree of D.Litt. (honoris causa) awarded to the renowned scholar, Dr. Rattan Singh Jaggi and D.Sc. (honoris causa) awarded to the noted agricultural scientist, Dr. G.S. Kalkat.

5.3.   STUDENT PARTICIPATION AND ACTIVITIES

5.3.1.   List the range of sports, cultural and extracurricular activities available to students. Furnish the programme calendar and provide details of students' participation.

Students are encouraged to take active part in sports. Well-maintained sports grounds and facilities for games such as hockey, football, cricket, basketball, volleyball, athletics, etc. as well as indoor games are provided. The Punjabi University has a large gymnasium hall for indoor games. It is one of the very few institutions in India to possess its own velodrome. The Youth Welfare Department organizes activities throughout the year. Punjabi University has won unique distinction in youth festivals organized by the Association of Indian Universities in collaboration with the Ministry of Youth Affairs, Government of India, and in other events. **Punjabi University was awarded the Maulana Abul Kalam Azad Trophy for excellence in sports in year 2006-07 and after that the University has been awarded MAKA trophy six times.**

The University has won overall second position in National Inter-University Youth Festival, overall championship in North Zone Inter-University Youth Festival many times and overall championship in Punjab State Inter-University Youth Festival repeatedly, and has also won overall championship many times in All India Inter-University Punjabi Cultural Festival. Students of Punjabi University have had the privilege of representing India in the festivals of India held in the former USSR, Mauritius, Spain, China, Germany and U.A.E. (Dubai). Apart from the above-mentioned activities, the Department of Youth Welfare organizes hiking, trekking, mountaineering and rock climbing courses, holds youth leadership training camps, prepares the students for participation in All India Level Youth Festivals, organizes Rotract Club, Young Cultural Club, Lee Club and Youth Club. It organizes Yoga Training Camps for the benefit of students of the University teaching departments and colleges. The department publishes the *Yuvak Sabha Magazine* and holds literary and cultural competitions.

In Annual Sports Calendar for the Year 2014-15, following games were organized at Punjabi University, Patiala:

Sr. No.	National Championships/ Events	Date of Entry	Last Date of Detailed Entry	Date of Competitions
1	Canoeing and Kayaking (MW)	13-02-15	02-03-15	13-15 March, 2015
2	Circle Style Kabaddi (M)	24-12-14	-	24-26 Jan. 2015
3	Fencing (MW)	30-12-14	20-01-15	30 Jan. – 2 Feb, 2015
4	Pistol Shooting & 177, Air Rifle Peep Sight (MW), [Clay Pigeon Shooting Trap Double Trap and Skeet (MW)]	02-12-14	22-12-14	02-06 Jan, 2015
5	Yachting (MW)	09-12-14	31-12-14	9-11 Jan, 2015
6	American Football (M)Demonstra-tion (Sponsored by UBA)	27-01-15	-	27 Feb to 2 Mar, 2015

Students of the Punjabi University, Patiala participated in the games organized by different universities given below:

Sr. No.	National Championships/ Events	Organizing University	Date of Entry	Last Date of Detailed Entry	Date of Compe-titions
1	Aquatics (MW)	Jain Uni., Bangalore	26-09-14	16-10-14	26-30 Oct 2014
2	Archery (MW)	Kurukshetra	16-10-14	06-11-14	23-27 Nov. 2014
3	Athletics (MW)	Rajiv Gandhi Univ. Of Health Sciences, Bangalore	30-11-14	20-12-14	16-20 Jan. 2015
4	Ball Badminton (M)	SRM, Chennai	04-12-14	-	05-09 Jan, 2015
5	Ball Badminton (W)	B.S. Abdur Rahman, Chennai	10-11-14	-	26-30 Dec, 2014
6	Baseball (MW)	Acharya Nagarjuna, Guntur	29-11-14	-	03-07 Jan, 2015
7	Boxing (MW)	LPU, Jalandhar	28-12-14	18-01-15	25 Feb. – 4 March (M), 19-23 Feb. 2015 (W)
8	Cross Country Races (MW)	MGU, Kottayam	10-09-14	04-10-14	18 Oct, 2014

Sr. No.	National Championships/ Events	Organizing University	Date of Entry	Last Date of Detailed Entry	Date of Competitions
9	Cycling Track (MW)	GNDU, Amritsar	14-10-14	04-11-14	14-16 Nov. 2014
11	Gymnastics & Malkhamb (MW)	LNIPE, Gwalior	15-11-14	05-12-14	15-19 Dec. 2014
12	Judo (MW)	GNDU, Amritsar	31-12-14	25-01-15	30 Jan to 1 Feb (W) 4-6 Feb. 2015 (M) 2015
13	Power Lifting & Wt. Lifting (MW) and Best Physique (M)	PTU, Jalandhar	21-11-14	15-12-14	1-3 Jan.2015 (W) 6-9 Jan, 2015 (M)
14	Rowing (MW)	GNDU, Amritsar	26-02-15	16-03-15	26-28 Mar, 2015
15	Softball (MW)	University of Delhi	16-01-15	-	01-05Mar, 2015 (M) 24-28Feb, 2015 (W)
16	Squash Rackets (MW)	Anna, Chennai	-	-	16-20 Feb, 2015
17	Taekwondo (M&W)	Anna, Chennai	02-01-15	-	13-15 Mar. (M) 16-17 Mar. (W) 2015
18	Wrestling (MW)	Kurukshetra	04-12-14	25-12-14	9-11 Jan, 2015
19	NationalSeminar on Broadbasing Sports in Univ. Sector in Pursuit of Excellence	SRM, Chennai	22-12-14	-	23-24 Jan, 2015

B. Competitions on Four Zone Basis (Women)

Sr. No.	Zonal Championships	Organizing University	Last Date of Entry	Date of Competitions
		Badminton (MW)		
20	NZ	University of Jammu	22-09-14	27-31 Oct, 2014
21	EZ	BHU, Varanasi	19-11-14	20-23 Dec. 2014
22	WZ	Rajiv Gandhi Proudyogik Vishwavidyalaya Bhopal (MP)	30-0914	06-09 Nov 2014 (M) 12-15 Nov. 2014 (W)
23	SZ	Bharathiar, Combatore		26-29 Dec, 2014
24	Inter Zonal	Bharathiar, Coimbatore		31 Dec. To 2nd Jan, 2015

Sr. No.	Zonal Champi- onships	Organizing University	Last Date of Entry	Date of Compe- titions
Basketball (W)				
25	NZ	CSJM, Kanpur		8-12 Nov, 2014
26	EZ	BHU, Varanasi	03-10-14	03-07 Nov. 2014
27	WZ	Banasthali, Rajasthan		8-13 Nov. 2014
28	SZ	Hindustan, Chennai		04-09 Nov. 2014
29	Inter Zonal	Banasthali, Rajasthan		15-19 Nov. 2014
Chess (MW)				
30	NZ	Amity, Noida	26-09-14	28 Oct. To 1 Nov. 2014
31	EZ	KIIT, Bhubaneshwar	27-08-14	27 Sep. to 01 Oct. 2014
32	WZ	Swarnim Gujarat Sports Univ.	27-09-14	27-30 Oct. 2014
33	SZ	VIT, Vellore		14-19 Oct. 2014
34	Inter Zonal	Amity, Noida (UP)		11-16 Nov. 2014
Cricket (W)				
35	NZ	MDU, Rohtak	26-10-14	27 Nov. To 3 Dec. 2014
36	EZ	LN Mithila, Darbanga	10-11-14	10-12-14 onwards
37	WZ	Barkatullah, Bhopal	08-11-14	10-12-14 Tent. date
38	SZ	Anna, Chennai		02-08 March, 2015
39	Inter Zonal	Anna, Chennai		08-11 March, 2015
Football (W)				
40	NZ	Panjab, Chandigarh	29-12-14	Jan. 29 – Feb. 03, 2015
41	EZ	BHU, Varanasi	18-01-15	18-24 Feb. 2015
42	WZ	University of Rajasthan	10-12-14	10-13 Jan. 2015
43	SZ	Triruvallu, Vellore		03-06 Jan. 2015
44	Inter Zonal	BHU, Varanasi		26 Feb. 3 March 2015
Handball (MW)				
45	NZ	University of Jammu	30-09-14	07-13 Nov. 2014
46	EZ	VBS Purvanchal, Jaunpur	10-10-14	28 Oct. to 01 Nov. 2014
47	WZ	RTM, Nagpur	02-10-14	5-9 Nov. 2014
48	SZ	Periyar, Salem		29 Sep. 3 Oct. 2014
49	Inter Zonal	University of Jammu		16-19 Nov. 2014

Sr. No.	Zonal Champi-onships	Organizing University	Last Date of Entry	Date of Compe-titions
Hockey (W)				
50	NZ	MDU, Rohtak	26-10-14	22-27 Dec. 2014
51	EZ	VBS Purvanchal, Jaunpur		09-13 Jan. 2015
52	WZ	Jai Narain Vyas Jodhpur	20-11-14	12-17 Jan. 2015
53	SZ	Anna, Chennai		11-14 Jan. 2015
54	Inter Zonal	VBS Purvanchal, Jaunpur		20-28 Feb. 2015
Kabaddi (W)				
55	NZ	MDU, Rohtak	26-09-14	01-05 Nov. 2014
56	EZ	KIIT, Bhubaneshwar	27-08-14	27 Sep. to 01 Oct. 2014
57	WZ	Vacant		
58	SZ	Kannur, Kerala		
59	Inter Zonal	KIIT, Bhubaneshwar		26-30 Dec. 2014
Kho-Kho (W)				
60	NZ	CSJM, Kanpur		20-24 Dec. 2014
61	EZ	LN Mithila, Darbanga	15-09-14	16-19 Oct. 2014
62	WZ	JRN Rajasthan Vidyapeeth, Udaipur	15-12-14	06-10 Jan. 2015
63	SZ	Anna University, Chennai		18-21 Oct. 2014
64	Inter Zonal	JRN Rajasthan Vidyapeeth, Udaipur	15-12-14	14-17 Jan. 2015
Table-Tennis (MW)				
65	NZ	UTU, Dehradun	25-08-14	18-21 Sep. 2014
66	EZ	KIIT, Bhubaneshwar	27-08-14	27 Sep. to 01 Oct. 2014
67	WZ	Vacant		
68	SZ	SRM, Chennai		30 Sep. to 3 Oct. 2014
69	Inter Zonal	SRM, Chennai		4-6 Oct. 2014
Tennis (W)				
70	NZ	Amity, Noida		6-10 Jan. 2015
71	EZ	Pt. Ravishankar Shukla, Raipur		03-05 Dec. 2014
72	WZ	The IIS University, Jaipur		19-22 Dec. 2014
73	SZ	Saveetha, Chennai		5-8 Jan. 2014
74	Inter Zonal	Amity, Noida		14-18 Jan. 2015

Sr. No.	Zonal Champi-onships	Organizing University	Last Date of Entry	Date of Compe-titions
		Volleyball (W)		
75	NZ	Himachal Pradesh, Shimla	30-08-14	06-10 Oct., 2014
76	EZ	KIIT, Bhubaneshwar	27-08-14	27 Sep. to 01 Oct. 2014
77	WZ	Vacant		
78	SZ	Madras, Chennai		26-30 Dec. 2014
79	Inter Zonal	Kurukshetra University		27-31 March, 2015

C. Competitions on Four Zone Basis (Men)

Sr. No.	Zonal Champi-onships	Organizing University	Last Date of Entry	Date of Compe-titions
80	NZ	PTU, Jalandhar		21-25 Dec. 2014
81	EZ	MG Kashi, Varansi	13-11-14	13-17 Dec. 2014
82	WZ	Bharathi Vidyapeeth, Pune		12-16 Dec. 2014
83	SZ	Sathyabhama, Chennai	03-11-14	03-09 Jan. 2015
84	Inter Zonal	Sathyabhama, Chennai		12-19 Jan. 2015
		Cricket		
85	NZ	University of Delhi	7-10-14	27 Oct. 2014 Onwards
86	EZ	UBS Purvanchal, Jaunpur	19-10-14	19-30 Nov. 2014
87	WZ	Barkatullah, Bhopal	20-10-14	22 Nov. to 6 Dec. 2014
88	SZ	Anna, Chennai		17-27 Nov. 2014
89	Inter Zonal	VBS Purvanchal, Jaunpur		02-11 Feb. 2014
		Football (M)		
90	NZ	Panjab, Chandigarh	03-11-14	03-11 Dec. 2014
91	EZ	Mizoram University	20-09-14	20-25 Oct. 2014
92	WZ	LNIPE, Gwalior	21-11-14	22-27 Dec. 2014
93	SZ	University of Calicut	01-11-14	13-20 Dec. 2014
94	Inter Zonal	LNIPE, Gwalior		Dec. 29 Jan 3, 2015
		Hockey (M)		
95	NZ	PAU, Ludhiana		13-19 Feb. 2015
96	EZ	MG Kashi, Varanasi	16-12-14	16-21 Jan. 2015
97	WZ	LNIPE, Gwalior	21-11-14	22-27 Dec. 2014

Sr. No.	Zonal Champi-onships	Organizing University	Last Date of Entry	Date of Competitions
98	SZ	University of Calicut	01-11-14	13-20 Dec. 2014
99	Inter Zonal	LNIPE, Gwalior		Dec. 29 – Jan. 3, 2015
Hockey (M)				
100	NZ	PAU, Ludhiana		13-19 Feb. 2015
101	EZ	MG Kash, Varanasi	16-12-14	16-21 Jan. 2015
102	WZ	Barkatullah, Bhopal	22-12-14	16-22 Feb. 2015
103	SZ	Anna, Chennai		21-27 Jan, 2015
104	Inter Zonal	Barkatullah, Bhopal		24 Feb. - 01 Mar., 2015
Kabbadi (M)				
105	NZ	CCSU, Meerut	17-01-15	18-22 Feb. 2015
106	EZ	Bilaspur University	05-01-15	09-13 Feb. 2015
107	WZ	Sant Gadge Baba, Amravati	19-12-14	19-22 Jan. 2015
108	SZ	Vel's Univ., Chennai	30-11-14	20-24 Dec. 2014
109	Inter Zonal	CCSU, Meerut	22-01-15	24-28 Feb. 2015
Kho-Kho (M)				
110	NZ	CSJM, Kanpur		27-30 Dec. 2014
111	EZ	LN Mithila, Darbanga	01-11-14	02-05 Dec. 2014
112	WZ	JRN Rajasthan Vidyapeeth, Udaipur	26-12-14	26-30 Jan. 2015
113	SZ	Anna, Chennai		26-30 Dec. 2014
114	Inter Zonal	JRN Rajasthan Vidyapeeth, Udaipur	15-12-14	24-28 Feb. 2018
Tennis(M)				
115	NZ	DCR University, Murthal	09-09-14	24-29 Oct. 2014
116	EZ	KIIT, Bhubaneshwar	27-08-14	27 Sep. to 01 Oct. 2014
117	WZ	Vacant		
118	SZ	SRM, Chennai		24-28 Jan. 2015
119	Inter Zonal	SRM, Chennai		29-31 Jan. 2015

Sr. No.	Zonal Championships	Organizing University	Last Date of Entry	Date of Competitions
Volleyball (M)				
120	NZ	Kurukshetra		31 Oct. to 5 Nov. 2014
121	EZ	KIIT, Bhubaneshwar		27 Sep. to 01 Oct. 2014
122	WZ	M.L. Sukhadia, Udaipur		14-18 Oct. 2014
123	SZ	Krishna Univ., AP	24-09-14	08-12 Oct. 2014
124	Inter Zonal	Kurukshetra		7-12 Nov. 2014

Number of Participating Students in National, International and University Levels games:

Sr. No.	Student Participation	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14
1	Number of students participated in Inter-national sports and games events	16	18	48	50	22	20
2	Number of students participated in national level sports and games events	226	230	216	172	186	225
3	Number of students participated in state level sports and games events	420	470	580	575	568	700
4	Number of students participated in uni. level sports and games events	625	635	750	735	715	740
5	Number of prizes won by students in inter-national sports and games events	9	10	10	32	12	02
6	Number of prizes won by students in national level sports and games events	72	73	134	172	186	181
7	Number of prizes won by students in state level sports and games events	234	340	400	380	400	525
8	Number of prizes won by students in uni. level sports and games events	234	356	370	266	375	183

Sr. No.	Student Participation	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14
9	Number of sports and games events conducted by the institute for the students	37 Games (M&W) and 2 All India Inter Uni. Com-petit-ions	37 Games (M&W) and 5 All India Inter Uni. Com-petit-ions	37 Games (M&W) and 4 All India Inter Uni. Com-petit-ions	37 Games (M&W) and 5 All India Inter Uni. Com-petit-ions	37 Games (M&W) and 4 All India Inter Uni. Com-petit-ions	37 Games (M&W) and 6 All India Inter Uni. Com-petit-ions

List of Games

1.	Athletics (Men & Women)	14.	Football (Men & Women)	27.	Pistol and Rifal Shooting (Men & Women)
2.	American Football (Men & Women)	15.	Fencing (Men & Women)	28.	Roing (Men & Women)
3.	Archery (Men & Women)	16.	Gymnastic (Men & Women)	29.	Rope pulling (Men & Women)
4.	Baseball (Men & Women)	17.	Gatka (Men & Women)	30.	Swimming and Dawing (Men & Women)
5.	Badminton (Men & Women)	18.	Handball (Men & Women)	31.	Softball (Men & Women)
6.	Basketball (Men & Women)	19.	Hockey (Men & Women)	32.	Squash Rocket (Men & Women)
7.	Boxing (Men & Women)	20.	Indoor Hockey (Men & Women)	33.	Tennis (Men & Women)
8.	Ball Badminton (Men & Women)	21.	Judo (Men & Women)	34.	Table Tennis (Men & Women)
9.	Kayaking (Men & Women) and Knowing (Male)	22.	Kabadi (National Style(Men & Women))	35.	Taikando (Men & Women)
10.	Chess (Men & Women)	23.	Kabadi (Circle Style) (Men & Women)	36.	Volleyball (Men & Women)
11.	Cricket (Men & Women)	24.	Kho-Kho (Men & Women)	37.	Kushti (Men & Women)
12.	Cross Country (Men & Women)	25.	Netball (Men & Women)	38.	Yating (Men & Women)
13.	Cycling – Track and Road (Men & Women)	26.	Power lifting (Men & Women)	39.	Yog Aasan (Men & Women)

No. of Participating Students in Cultural Activities at all Levels

Year	University	State	North Zone	National	Inter-National
2008-09	2386	-	32	22	-
2009-10	2415	-	32	18	-
2010-11	2247	-	33	14	-
2011-12	2224	-	32	2	8
2012-13	2344	190	32	14	2
2013-14	2392	73	32	38	12
2014-15	2380	115	33	22	9

5.3.2. **Give details of the achievements of students in co-curricular, extracurricular and cultural activities at different levels: University / State / Zonal / National / International, etc. during the last four years.**

Team Championship(s) at All India Inter University level during the session : 2008-09

Winner		Runner's Up		Third		Fourth	
Netball	Men	Football	Men	Handball	Women	Cross Country	Women
Netball	Women			Handball	Men		
Fencing	Men	Fencing	Men	Shooting	Men		
• Epee Team • Foil Team		• Sabre Team		• Air Rifle			
Fencing	Women	Archery	Women	Rowing	Women		
• Epee Team • Sabre Team		• Comp-ound Team Olympic Round-70 Mts.		• Pair • Four			
Cycling	Men			Cycling	Women		
• 1500 Mts. Team Time Trail • 4 K.M. Team pursuit • 50 K.M. Road Team Time Trail • Olympic Team Sprint				• 3 K.M. Team Pursuit			

Winner		Runner's Up	Third	Fourth
Cycling	Women			
• 1500 Mts. Team Time Trail				
Archery Recurve	Women			
• Team Olympic Round- 70 Mts.				
Archery	Men			
• Compou nd Team Olympic Round- 70 Mts. • Recurve Team Olympic Round- 70 Mts.				
Total = 14 teams		**Total = 03 teams**	**Total = 06 teams**	**Total = 01 team**

Individual Medals at All India Inter-University level during the session : 2008-09

Discipline	Gold Medal	Silver Medal	Bronze Medal	IVth Position
Athletics	02	02	02	-
Archery	11	08	03	-
Best Physique	-	01	01	-
Boxing	01	01	03	-
Cycling	05	05	03	03
Fencing	02	01	04	-
Gymnastics	02	02	02	-
Judo	01	01	02	-
Power Lifting	02	03	01	03
Shooting	-	01	-	-
Weight Lifting	03	05	02	-
Wrestling	02	-	05	01
Total	**31**	**30**	**27**	**07**

Medals at National level during the session : 2008-09

Discipline	Gold Medal	Silver Medal	Bronze Medal	IVth Position
Archery	-	02	-	-
Athletics	01	-	-	-
Cycling	01	11	15	-
Fencing	-	04	06	-
Gymnastics	03	02	03	01
Handball	-	-	01	-
Judo	-	-	01	-

Discipline	Gold Medal	Silver Medal	Bronze Medal	IVth Position
Kabaddi	-	-	01	-
Netball	-	-	07	-
Power Lifting	01	-	-	-
Softball	01	-	-	-
Weight Lifting	-	01	-	-
Wrestling	-	01	-	-
Total	**07**	**21**	**34**	**01**

Medals at International level during the session : 2008-09

Discipline	Gold Medal	Silver Medal	Bronze Medal	Participation
Archery	04	-	-	02
Athletics	02	02	-	-
Gymnastics	-	-	-	01
Netball	-	-	-	02
Power Lifting	-	01	-	01
Weight Lifting	-	-	-	01
Total	**06**	**03**	**-**	**07**

Team Championship(s) at All India Inter-University level during the session : 2009-10

Winner		Runner's UP		Third		Fourth	
Archery • Recurve Team • Compound Team	Women	Cycling • 3 K.M. Team Pursuit • 20 K.M. Road Team Time Trail	Women	Archery • Indian Round	Women	Shooting • Air Rifle Shooting	Men
Archery • Compound Team • Recurve Team	Men	Cycling • 50 K.M. Road Team Time Trail • Olympic Team Sprint	Men	Korfball	Men &Women		
Handball	Men	Netball	Women	Netball	Men		
Handball	Women	Cricket	Men	Football	Men		
Baseball	Men	Fencing • Sabre Team	Women	Gymanstics • Artistic	Men		
Baseball	Women	Kayaking • K-4-200 Mts.	Women	Fencing • Artistic	Women		
Cycling • 1500 M. Team Time Trail • 4 K.M. Team Pursuit	Men	Kayaking • K-2-500 Mts.	Men	Kayaking • K-4-1000 Mts.	Women		

Winner		Runner's UP		Third		Fourth	
Cycling • 1500 M. Team Time Trail • Olympic Team Sprint	Women	Yachting • 1800 Mts.	Women	Kayaking • K-2-500 Mts.	Women		
Gymnastics • Rhythmic	Women			Kayaking • K-2-1000Mts.	Women		
Fencing • Foil Team	Men			Canoeing • C-2-200 Mts.	Men		
Kayaking • K-4-500 Mts.	Women			Canoeing • C-2-500 Mts.	Men		
Yachting • 1800 Mts. • 1200 Mts. • 600 Mts.	Men			Canoeing • C-2-1000 Mts.	Men		
Yachting • 1200 Mts. • 600 Mts.	Women			Canoeing • C-4-200 Mts.	Men		
				Canoeing • C-4-500 Mts.	Men		
				Canoeing • C-4-1000 Mts.	Men		
				Kayaking • K-4-200Mts	Men		
Total = 21 teams		**Total= 10 teams**		**Total = 16 teams**		**Total = 01 team**	

Individual Medals at All India Inter-University level during the session : 2009-10

Discipline	Gold Medal	Silver Medal	Bronze Medal	IVth Position
Archery	12	09	05	05
Athletics	03	03	02	-
Boxing	02	03	-	-
Canoeing	-	-	02	-
Cycling	03	06	06	03
Fencing	03	01	01	-
Gymnastics	08	03	02	-
Judo	-	01	05	-
Rowing	-	-	-	01
Shooting	01	-	01	-
Power Lifting	01	03	02	02
Weight Lifting	04	01	02	01
Wrestling	-	-	05	-
Total	**37**	**30**	**33**	**12**

Medals at National level during the session : 2009-10

Discipline	Gold Medal	Silver Medal	Bronze Medal	IV Position
Softball	01	-	01	-
Handball	-	04	-	-
Hockey	-	01	-	-
Gymnastics	01	03	-	-
Fencing	03	07	19	-
Tug of War	02	18	-	-
Archery	-	01	-	01
Athletics	02	02	03	-
Boxing	-	01	02	-
Judo	-	-	01	-
Weight Lifting	-	-	01	-
Total	**09**	**37**	**27**	**01**

Medals at International level during the session : 2009-10

Discipline	Gold Medal	Silver Medal	Bronze Medal	Participation
Gymnastics	-	-	-	02
Archery	02	04	01	01
Cycling	-	-	-	02
Hockey	-	-	-	01
Fencing	-	-	-	02
Shooting	02	-	-	-
Athletics	-	-	01	-
Total	**04**	**04**	**02**	**08**

Team Championship(s) at All India Inter-University level during the session : 2010-11

Winner		Runner Up		Third	
Shooting • Air Pistol	Women	Fencing • Foil Team	Women	Shooting • Air Pistol	Men
Archery • Compound Team Olympic Round • Recurve Team Olympic Round	Women	Cycling • 20 K.M. Road Team Time Trail	Women	Shooting • Air Rifle	Women
Archery • Compound Team Olympic Round	Men	Cycling • 1500 Mtr. Team Time Trail • Team Sprint • 4 K.M. Team Pursuit • 50 K.M. Road Team Time Trail	Men	Archery • Recurve Team Olympic Round • Indian Team Olympic Round	Men
Cycling • Team Sprint • 3 K.M. Team Pursuit	Women	Baseball	Men	Archery • Indian Team Olympic Round	Women
Fencing • Epee Team • Sabre Team	Women	Handball	Men	Baseball	Women
Gymnastics • Rhythmic Gymnastics • Artistic Gymnastics	Women	Handball	Women	Cycling • 1500 Mtr. Team Time Trail	Women
Rowing • Double Skull • Coxless Pair	Men	Rowing • Coxless Four	Men	Fencing • Epee Team	Men
Rowing • Coxless Pair	Women	Rowing • Coxless Four	Women	Softball	Men
Kabaddi	Women			Volleyball	Men
Football	Men				
Cross Country	Women				
Total = 16 teams		**Total = 11 teams**		**Total = 10 teams**	

Individual Medals at All India Inter-University level during the session : 2010-11

Discipline	Gold Medal	Silver Medal	Bronze Medal	IV Position
Archery	06	07	08	09
Athletics	04	03	-	02
Boxing	01	01	01	-
Cycling	05	01	03	-
Fencing	02	03	05	-
Gymnastics	10	06	02	01
Judo	01	01	03	-
Power Lifting	02	-	01	04

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Discipline	Gold Medal	Silver Medal	Bronze Medal	IV Position
Rowing	-	01	01	-
Shooting	01	-	01	-
Weight Lifting	02	01	01	01
Wrestling	01	02	01	-
Total	35	26	27	17

Medals at National level during the session : 2010-11

Discipline	Gold Medal	Silver Medal	Bronze Medal
Archery	01	03	04
Athletics	-	01	-
Basketball	-	01	-
Boxing	-	-	02
Cycling	03	03	17
Fencing	05	09	12
Gymnastics	06	12	09
Handball	-	05	-
Shooting	04	01	-
Softball	01	-	-
Tug of War	35	-	-
Total	55	35	44

Medals at International level during the session : 2010-11

Discipline	Gold Medal	Silver Medal	Bronze Medal	Participation
Archery	01	02	01	18
Basketball	-	-	-	01
Cycling	-	-	-	01
Fencing	04	-	02	12
Gymnastics	-	-	-	02
Handball	-	-	-	01
Shooting	-	-	-	03
Total	05	02	03	38

Team Championship(s) at All India Inter-University level during the session : 2011-12

Winner		Runner UP		Third		Fourth	
Archery • Team Olympic Indian Round • Team Olympic Comp-ound Round	Women	Archery • Team Olympic Compound Round • Team Olympic Recurve Round	Men	Archery • Team Olympic Recurve Round	Women	Archery • Team Olympic Indian Round	Men
Cycling • 4 K.M. Team Pursuit	Men	Cross Country	Men	Fencing • Sabre Team	Men	Volleyball	Men
Cycling • 1500 Mtr. Team Time Trail • 3 K.M. Team Pursuit	Women	Cycling • 1500 Mtr. Team Time Trail • Olympic Team Sprint	Men	Cycling • 44 K.M. Road Team Time Trial	Men		
Fencing • Epee Team • Foil Team	Men	Cycling • Olympic Team Sprint • 20 K.M. Road Team Time Trail	Women	Canoeing • C-21000 Mtr. • C-4200 Mtr. • C-4500 Mtr. • C-41000 Mtr.	Men		
Fencing • Sabre Team	Women	Fencing • Foil Team	Women	Kayaking • K-4500 Mtr.	Men		
Kabaddi	Women	Volleyball	Women	Football	Men		
Rowing • Double Skull • Four	Men			Kayaking • K-21000 Mtr.	Women		
Yachting • 600 Mtr. • 1200 Mtr. • 1800 Mtr.	Men			Shooting • Air Rifle Shooting	Men		
Yachting • 600 Mtr. • 1200 Mtr. • 1800 Mtr.	Men			Shooting • 10 Mtr. Air Rifle Shooting	Women		
				Rowing • Four	Women		
				Kho-Kho	Women		
Total = 17 teams		**Total = 09 teams**		**Total = 14 teams**		**Total = 02 teams**	

Individual Medals at All India Inter-University level during the session : 2011-12

Discipline	Gold Medal	Silver Medal	Bronze Medal	IVth Position
Archery	10	12	07	06
Athletics	08	04	02	05
Best Physique	-	-	03	-
Boxing	02	03	06	-
Canoeing	-	-	01	-
Cycling	06	03	02	04
Fencing	04	03	01	-
Judo	02		02	-
Power Lifting	02	02	02	-
Rowing	01	-	-	-
Shooting	-	-	-	01
Weight Lifting	03	-	01	-
Wrestling	02	01	-	-
Total	**40**	**28**	**27**	**16**

Medals at National level during the session : 2011-12

Discipline	Gold Medal	Silver Medal	Bronze Medal	IVth Position
Archery	02	-	01	02
Athletics	01	03	-	-
Boxing	-	01	-	-
Cycling	05	06	02	-
Fencing	04	14	21	-
Handball	06	-	-	-
Hockey	-	02	-	-
Judo	-	-	01	-
Power Lifting	-	-	01	-
Shooting	01	-	01	-
Softball	-	01	-	-
Taekwondo	01	-	01	-
Tug of War	52	17	23	-
Wrestling	-	-	01	-
Wushu	-	-	01	-
Yoga	-	01	-	-
Total	**72**	**45**	**53**	**02**

Medals at International level during the session : 2011-12

Discipline	Gold Medal	Silver Medal	Bronze Medal	4th Position	Participation
Archery	-	01	02	01	10
Athletics	-	-	-	-	01
Cycling	-	-	-	-	02
Fencing	03	02	-	-	01
Gymnastics	01	02	01	-	01
Shooting	02	01	-	-	03
Tug of War	16	-	-	-	-
Total	**22**	**06**	**03**	**01**	**18**

Team Championship(s) at All India Inter-University level during the session : 2012-13

Winner		Runner UP		Third		Fourth	
Archery • Compound Round	Women	Archery • Compound Round	Men	Archery • Indian Round	Women	Archery • Indian Round	Men
Archery • Compound Round • Recurve Round	Mix	Archery • Indian Round	Mix	Basketball	Men	Athletics • 4x400 Mtrs. Relay	Women
Cycling • 1500 Mtr. Team Time Trial • 3 K.M. Team Pursuit	Women	Archery • Recurve Round	Men	Cross Country	Women	Cross Country	Men
Fencing • Foil Team	Women	Archery • Recurve Round	Women	Cycling • Olympic Team Sprint	Men		
Fencing • Epee Team • Sabre Team • Foil Team	Men	Canoeing • C-2, 500 Mtr.	Men	Gymnastics • Artistic Gymnastics	Women		
Rowing • Coxless Four	Men	Cycling • Olympic Team Sprint	Women	Kayaking • K-2, 200 Mtr.	Men		
Canoeing • C-2, 200 Mtr. • C-4, 200 Mtr. • C-4, 500 Mtr.	Men	Cycling • 1500 Mtr. Team Time Trail • 4 K.M. Team Pursuit	Men	Yachting • 1800 Mtr.	Men		

Event		Event		Event			
• C-21000 Mtr. • C-41000 Mtr.							
Kayaking • K-4, 200 Mtr. • K-4, 500 Mtr. • K-4, 4100 Mtr.	Men	Kayaking • K-2, 500 Mtr. • K-2, 21000 Mtr.	Men	Yachting • 600 Mtr.	Women		
Kayaking • K-2, 200 Mtr.	Women	Gymnastics • Rhythmic Gymnastics	Women				
Shooting • 10 Mtr. Air Pistol Shooting	Men	Fencing • Epee Team • Sabre Team	Women				
Kabaddi	Women	Handball	Women				
Yachting • 1200 Mtr.	Men	Kayaking • K-4, 200 Mtr. • K-2 500 Mtr. • K-4, 500 Mtr. • K-21000 Mtr. • K-41000 Mtr.	Women				
		Netball	Men				
		Rowing • Croxless Pair	Men				
		Rowing • Double Sculls • Coxless Pair • Coxless Four	Women				
		Shooting • 10 Mtr. Air Rifle Shoot-ing	Men				
		Yachting • 1200 Mtr.	Women				
Total = 22 teams		**Total = 26 teams**		**Total = 08 teams**		**Total = 03 teams**	

Individual Medals at All India Inter-University level during the session : 2012-13

Discipline	Gold Medal	Silver Medal	Bronze Medal	IVth Position
Archery	09	05	06	05
Athletics	05	07	07	02
Best Physique	-	-	01	01
Boxing	01	05	05	-
Canoeing	03	-	-	-
Cycling	01	02	03	04
Fencing	04	03	04	-
Gymnastics	04	02	02	-
Judo	-	02	02	-
Kayaking	04	02	-	-
Power Lifting	01	-	-	02
Shooting	01	-	01	-
Taekwondo	03	02	01	-
Weight Lifting	03	06	03	02
Wrestling	02	-	02	-
Yoga	-	01	-	-
Total	**41**	**37**	**37**	**16**

Medals at National level during the session : 2012-13

Discipline	Gold Medal	Silver Medal	Bronze Medal	IVth Position
Archery	-	01	-	-
Athletics	02	-	02	02
Canoeing	-	-	03	-
Cycling	-	02	07	-
Fencing	10	13	21	-
Gymnastics	02	07	05	-
Handball	08	-	16	-
Hockey	-	-	02	-
Judo	-	01	02	-
Kayaking	06	02	01	-
Shooting	-	-	01	-
Softball	-	01	-	-
Taekwondo	-	-	01	-
Tug of War	54	-	-	-
Volleyball	-	-	06	-
Wrestling	-	-	01	-
Total	**82**	**27**	**68**	**02**

Medals at International level during the session : 2012-13

Discipline	Gold Medal	Silver Medal	Bronze Medal	4th Position	Participation
Archery	-	-	01	-	-
Cycling	-	-	-	-	01
Handball	03	-	-	-	02
Korfball	-	-	-	-	01
Netball	-	-	-	-	01
Shooting	-	-	-	-	01
Yoga	01	01	-	01	-
Total	**04**	**01**	**01**	**01**	**06**

Team Championship(s) at All India Inter-University level during the session : 2013-14

Winner		Runner UP		Third		Fourth	
Archery • Indian Round	Women	Athletics	Women	Boxing	Women	Cycling • 40 KM Road Mass Start	Women
Archery • Compound Team	Men	Baseball	Women	Canoeing • C-2, 500 Mtr. • C-2, 200 Mtr.	Men	Kayak-ing • K-2, 1000 Mtr.	Men
Archery • Recurve Team	Men	Boxing	Men	Kayaking • K-4, 200 Mtr.	Men	Volley-ball	Men
Archery • Compound Team	Women	Canoeing • C-4, 500 Mtr. • C-4, 1000 Mtr.	Men	Shooting • 10 Mtr. Air Rifle Shoot-ing	Men	Yachting • 1200 Mtr. • 600 Mtr.	Men
Archery • Compound Round	Mix	Cycling • 50 KM Road Team Time Trial	Women	Taek-wondo	Men		
Archery • Indian Round Team	Men	Fencing • Epee Team • Foil Team	Women	Yachting • 1800 Mtr.	Men		
Archery • Recurve Team	Mix	Gymnastics • Rhythmic Gymn-astics	Women				
Archery • Recurve Team	Women	Kayaking • K-2, 200 Mtr. • K-4, 1000 Mtr.	Men				
Athletics • 4x100 Mtr. Relay	Men	Rowing • Pair	Women				

Winner		Runner UP		Third		Fourth	
Cycling • 1500 Mtr. Team Time Trial • Team Sprint • 4 K.M. Team Pursuit	Men	Rowing • Double Scull	Men				
Cycling • 1500 Mtr. Team Time Trial • Team Sprint • 3 K.M. Team Pursuit • 25 K.M. Road Team Time Trial	Women	Kayaking • K-2, 200 Mtr. • K-2, 500 Mtr. • K-2, 1000 Mtr. • K-4, 200 Mtr. • K-4, 500 Mtr. • K-4, 1000 Mtr.	Women				
Fencing • Sabre Team • Epee Team • Foil Team	Men	Yachting • 1200 Mtr.	Women				
Fencing • Sabre Team	Women	Hockey	Women				
Athletics	Men	Judo	Women				
Cross Country	Men	Yoga	Men				
Cross Country	Women						
Handball	Women						
Rowing • Cox Four	Men						
Rowing • Double Scull • Cox Four	Women						
Weight Lifting	Men						
Yachting • 1800 Mtr. • 600 Mtr.	Women						
Total=30 teams		**Total=23 teams**		**Total=08 teams**		**Total=05 teams**	

Individual Medals at All India Inter-University level during the session : 2013-14

Discipline	Gold Medal	Silver Medal	Bronze Medal	IVth Position
Archery	08	04	06	06
Athletics	14	10	04	04
Boxing	03	01	02	-
Cross Country	-	01	-	-
Canoeing & Kayaking	03	02	01	-
Cycling	04	04	02	05
Fencing	03	03	05	-
Gymnastics (Rhy.)	01	01	01	-
Judo	02	02	05	-
Shooting	-	-	-	01
Power Lifting, Wt. Lifting & Best Physique	-	08	07	01
Rowing	-	01	01	-
Taekwondo	01		04	-
Wrestling	01	-	01	-
Total	**40**	**37**	**39**	**17**

Individual Medals at All India Inter-University level during the session : 2013-14

Discipline	Gold Medal	Silver Medal	Bronze Medal	IVth Position
Archery	08	04	06	06
Athletics	14	10	04	04
Boxing	03	01	02	-
Cross Country	-	01	-	-
Canoeing & Kayaking	03	02	01	-
Cycling	04	04	02	05
Fencing	03	03	05	-
Gymnastics (Rhy.)	01	01	01	-
Judo	02	02	05	-

Discipline	Gold Medal	Silver Medal	Bronze Medal	IV Position
Shooting	-	-	-	01
Power Lifting, Wt. Lifting & Best Physique	-	08	07	01
Rowing	-	01	01	-
Taekwondo	01		04	-
Wrestling	01	-	01	-
Total	**40**	**37**	**39**	**17**

Medals at National level during the session : 2013-14

Discipline	Gold Medal	Silver Medal	Bronze Medal	IVth Position
Archery	03	06	09	03
Athletics	04	04	01	03
Baseball	06	-	01	-
Canoeing & Kayaking	07	03	03	01
Cycling	-	04	04	-
Handball	-	02	-	-
Hockey	04	06	-	-
Judo	01	03	-	-
Netball	-	03	-	-
Power Lifting	-	01	-	-
Shooting	01	-	02	-
Tug of War	59	09	-	-
Weight Lifting	-	-	-	01
Total	**85**	**41**	**20**	**08**

Medals at International level during the session : 2013-14

Discipline	Gold Medal	Silver Medal	Bronze Medal	IVth Position	Participation
Archery	-	-	-	01	04
Gymnastics	-	-	-	-	01
Hockey	02	03	-	-	-
Shooting	-	01	-	-	-
Total	**02**	**04**	**-**	**01**	**05**

In addition to the above achievements Punjabi University also won the prestigious **Maulana Abul Kalam Azad (MAKA)** Trophy for the first time in the year 2005-06 and after that its winning spree continued for the year 2006-07, 2007-08, 2008-09, 2011-12, 2012-13 & 2013-14.

Achievements in Cultural Activities:

North Zone 2008-09 held at Panjab University, Chandigarh

Item	Place	No. of Students
Folk/Tribal Dance	First	8
Classical Dance	First	1
Creative Dance	First	1
Clay Modeling	First	1
Poster Making	Second	1
Folk Orchestra	Second	10
Western Group Song	Second	6
Classical Vocal Solo	Second	1
Semi Classical Vocal	Second	1
Classical Inst. Per.	Second	1
Group Song Indian	Third	6
Light Vocal	Third	1
Classical Instr. NP	Third	1
Quiz	Third	3
	Total	**42**

National Inter-university 2008-09 held at Vidya Sagar University, Midnapur

Item	Place	No. of Students
Clay Modeling	First	1
Poster Making	First	1
Creative Dance	Second	1
Folk/Tribal Dance	Second	8
Folk Orchestra	Second	10
Semi Classical Vocal	Second	1
Classical Inst. Per.	Second	1
Classical Vocal Solo	Third	1
Classical Dance	Forth	1
	Total	**25**

Inter Zonal Youth Festivals year 2009-10 held at Kurukshetra University, Kurukshetra

Item	No. of Students	Place
Folk Orchestra	First	10
Classical Inst. Per.	First	1
Creative Dance	Second	1
Classical Vocal Solo	Second	1
Classical Inst. NP	Second	1
Photography	Second	1
Clay Modelling	Second	1
Folk/Tribal Dance	Third	8
Classical Dance	Third	1
Skit	Third	6
Mimicry	Third	1
On Act Play	Third	8
	Total	**40**

National Inter-university 2009-10 held at M.D. University, Rohtak

Item	Place	No. of Students
Folk Orchetra	First	10
Classical Instr. NP	First	1
Classical Instr. Per	Second	1
Photography	Second	1
Creative	Third	1
Clay Modeling	Forth	1
	Total	**15**

North Zone Inter University 2010-11 held at Bundelkhand University, Jhansi

Item	Place	No. of Students
Group Song Indian	First	6
Classical Instr. NP		1
Classical Dance		1
Rangoli		1
Mime		6
Classical Instr. Per.	Second	1
One Act Play	Third	9
Folk Dance		8
Light Vocal		1
Poster Making		1
Skit		6
	Total	**42**

2010-11 National Inter University-Sri Veankteshwar University, Tirupati

Classical Instr. Per.	Second	1

North Zone Inter University 2011-12 held at Lovely Professional Uni., Jalandhar

Item	Place	No. of Students
Classical Instr. NP	First	1
Light Vocal	Second	1
Folk Orchestra	Third	10
Western Group Song	Third	6
	Total	**18**

2011-12 National Inter University - Nagpur University, Nagpur

No Place

North Zone Inter University 2012-13 held at GND University, Amritsar

Item	Place	No. of Students
Western Group Song	First	6
Skit	First	6
Light Vocal	First	1
Classical Dance	Second	1
Western Solo	Second	1
Rangoli	Second	1
Mimicry	Third	1
Folk Orchestra	Third	10
Folk Dance	Third	8
Classical Vocal	Third	1
Classical Instr. NP	Third	1
Clay Modeling	Third	1
Collage Making	Third	1
On the Spot Painting	Third	1
Installation	Third	4
	Total	**44**

National Inter University 2012-13 held at University of Kalyani, Kalyani (WB)

Item	Place	No. of Students
Western Group Song	First	6
Western Solo	First	1
Light Vocal	First	1
Classical Dance	First	1
Skit	Second	6
Rangoli	Third	1
	Total	**16**

North Zone Inter University 2013-14 held at Baba Bhim Rao Ambedkar University, Lucknow (UP)

Item	Place	No. of Students
Western Solo	First	1
Folk Orchestra	First	11
Classical Inst. NP	Second	1
Classical Vocal	Second	1
Western Group Song	Second	6
Classical Dance	Third	1
	Total	**21**

National Inter University 2013-14 held at Kurushetra University, Kurushetra

Item	Place	No. of Students
Folk Orchestra	First	11
Classical Vocal	Second	1
Classical Inst. NP	Third	1
Western Solo	Forth	1
Western Group Song	Forth	6
	Total	**20**

5.3.3. **Does the university conduct special drives / campaigns for students to promote heritage consciousness?**

Yes.

- The students have participated in the following drives/campaigns to promote heritage consciousness:

  - **Lok Mela:** Youth Welfare department organized Lok Melas for students every year. Various colleges of Punjabi University participated in this Lok Melas. Students participated in different events showing rich culture and heritage of Punjab.

  - **Lok Khedan:** In Lok Khedan different types of activities were played by the students. Three types of games were organized both for girls and boys participants. *Stapu, Rasa Tapna* and *Geete* the traditional games were played by the girl participants. *Loon Miyani, Pidhoo Gargam, Rasha Kashi* games were played by boy participants.

  - **Folk Dance:** Punjabi University Patiala organized folk dance competition for students from time to time. In these events students participated in folk dance competition e.g. Classic Dance, Bhangra and Gidha etc.

- **Museum**

  To promote art and cultural heritage of Punjab, the Museum & Art Gallery of Punjabi University Patiala was established in 1972. Giani Zail Singh, who was the Chief Minister of Punjab at that time, inaugurated this museum. In 1996, it was extensively renovated.

  It has its resemblance with Buddhist - Stupa

▪	Round Gallery (Photo Gallery	The Paintings/Sculptures/Prints of Punjabi artists in modern technique are displayed inthis gallery.
▪	Gallery Culture and Heritage of Punjab	It showcases the artifacts of Folk Art, Punjabi Dresses and antiques of Punjab.
▪	Spiritual Gallery Photos	It is a home of the oldest preciousholy books of Shri Guru Granth Sahib ji, (Beerhs) illustrated, manuscripts of oil paintings, oil paintings– the replicas of wall paintings of

		Akal Takhat, Hukkamnammas and miniature paintings of Gurus.
▪	Exhibition Gallery	For the exhibitions of paintings /photographs/sculptures/ instal-lations by budding artists and eminent artists of India and abroad. The Sculpture Park around the building of Museum adds to the glory of Museum and Art Gallery.

The superb collection of the museum of Punjabi university is the mirror of art and culture of Punjab. The art works of the artists of international fame glorify the galleries. Keeping in mind the growing interest of artists, art critics and art lovers, a complete catalogue of the museum and art gallery hasbeen prepared. It is believed that scholars are going to benefit a lot from this prolific department of Punjabi University. Hundreds of art lovers from India and abroad visit Museum & Art Gallery.

- *Collections of the Museum & Art Gallery*

  o Museum is adorned with the art works of the prominent creative artists like B.C. Sanyal, Hari Krishan Lal, Krishan Khanna, P.N. Mago, Arpita Singh, Paramjit Singh, Prem Singh, Manjit Singh Bawa, Surjit Kaur, Ishwar Chitarkar, Jagdeep Garcha, Anupam Sood, Dhannraj Bhagat, Saroj Sharma, Kalicharan, Kanchan Chander, Viren Tanvar, Malkiat Singh, Ranbir Kaleka, Sohan Qadri and many more.

  o Artifacts showing culture & heritage of Punjab are demonstrated with supernatural tidings, creative spirit and psychic cures. Collection of Phulkaries and Durries are the reflections of pure and devoted mind of a Punjab woman. Among the antiques are rare old Punjabi dresses, silver jewellery, old utensils, wood works, metal works, the mud village, haveli, rath-doli. The mud village kitchen fully equipped with domestic appliances, spinning – wheels, hand fans, old wooden boxes, big wooden wheel and racing cart, coins and medals make the interior of Museum drenched into the aura of Punjabi Heritage. Most of the artifacts of Punjabi

Culture and Heritage Gallery of Museum are donated by aristocratic sikh community of Punjab from time to time.

o Publications of Museum and Art Gallery

- A catalogue of paintings/sculptures/prints & artifacts of Museum
- A book on Historical Buildings of Patiala at a Glance, Vol. I
- A book on Historical Buildings of Patiala at a Glance, Vol. II in process.
- CDs are available with regard to the following:
  - C. D. on painted Chambers of Qila Androon, Qila Mubarak, Patiala–Script written by Dr. Saroj Sharma Director, Museum & Art Gallery, Punjabi University, Patiala.
  - C.D. on the contemporary artists.
  - C.D. on Qila Mubarak, Patiala.
  - C.D. on Qila of Bahadurgarh.

o Photographs

- Photographs of Historical Buildings of Patiala
- Photographs of the painted Chambers of the Qila Androon of Qila Mubarak, Patiala
- Photographs of Sheesh Mahal, Patiala
- Photographs of Royal Architecture of Patiala
- Photographs of oldest education Institutions, Schools, Colleges/Medical Colleges etc.

o Manuscripts/The Holy Books

- Illustrated manuscripts of Shri Guru Granth Sahib Ji.
- The Holy Books of Shri Guru Granth Sahib Ji. (Beerhs)
- Hukamnammas.
- The Holi Book of Shri Bhagwata Geeta in its miniature size.

- **Programmes and Activities of Museum & Art Gallery**

  The Exhibitions, Seminars and workshops are the very important events of Museum & Art Gallery of Punjabi University, Patiala. It is a regular feature to organize exhibitions of the work of senior and junior artists throughout the year.

- **Important Exhibitions**

  o 'Reservoir of the Pious Souls' an exhibition of paintings on Gurbani
  o An exhibition on the photographs of 'Historical Buildings of Patiala'
  o 'The woven expressions of a psychic Urge' an exhibition of Phulkaries & Durries.
  o An exhibition of Paintings on Janam Sakhis, A Truth realized "THE HUES OF JANAM-SAKHIS".
  o "The Heritage of Punjab" an exhibition of Punjab Culture.
  o 'ASYMPHONY- A HOMAGE' An exhibition of paintings based on Ragas of Guru Granth Sahib Ji.
  o 'A VANISHING HERRITAGE CAPTURED' an exhibition of the photographs of the painted chambers of Qila Androon.
  o 'A SPITITUAL GLOW' an exhibition of paintings based on verses of Gurubani by Late. S. Trilok Singh.
  o 'OUR SILENT SONGS' an exhibition of paintings & Installations.
  o 'WAVES OF CREATION,' an exhibition of paintings, sketches & Photography by Gurpreet Singh of Bathinda.
  o 'VIRASAT,' An exhibition of Culture and Heritage of Punjab.
  o 'CLOSENESS TO THE NATURE' An Exhibition of Photographs by Sh. Rajesh Sachar.

- **Painting-Workshops & Seminars**

  o A Painting Workshop on Independence of India by Punjabi artists from all over Indiaabroad.
  o A Painting Workshop on 'Janam Sakhis' by Punjabi Artists.
  o A Painting Workshop on Bara Maha – An Oasis of Spiritual Solace by artists from different states of Punjab.

- **Further Plans**

  Keeping in view the significant achievements & collection of Museum & Art Gallery the aim is to extend its boundaries towards making it as one of the biggest research centre, which will showcase the cultural and traditional artifacts of Punjab for the benefit of the young research scholars.

- **Norah Richards at Andretta, Himachal Pradesh**

  The University has undertaken the responsibility of maintaining the estate of Norah Richards at Andretta, Himachal Pradesh. Arrangements have been made for faculty members and students who wish to carry out study and research in the fields of theatre and television. On 29th October each year, students from the drama department of the Punjabi University, Patiala, take centre-stage at the amphitheatre in *Mem-da-Pind* to commemorate the birthday of the playwright and social activist Norah Richards.

  The University manages Balbir Singh Sahitya Kendra at Dehradun, the capital city of the Uttarakhand. There is a rich library with rare books and manuscripts bequeathed by Bhai Vir Singh, Balbir Singh and Puran Singh, the doyens of Punjabi literature. Research on comparative religions is carried out at this Center.

5.3.4. **How does the university involve and encourage its students to publish materials like catalogues, wall magazines, college magazine, and other material? List the major publications/ materials brought out by the students during the last four academic sessions.**

A Video magazine "**Sada Campus**" has been started by the students of the Department of Journalism and Mass Communication. It is a fortnightly magazine covering all the events and activities of the University. This activity makes the students well trained and enables them to create a niche for themselves in broadcasting journalism.

The Department is also publishing a Lab Journal on its Desktop, **"Campus Times"** which helps the students to get adjusted in newspapers and magazines after completing their course. Some of the students have also been picked up by various newspapers and TV Channels, even while they were studying. The Department is also bringing out special issues of this journal on significant occasions.

In December 2002, the Department brought out **"Samajak Vigyan Pattar"** a special issue on **"Mass Communication in Punjab: Challenges & Opportunities"** in which students were involved.

Every year, in each department, a large number of literary contests/workshops/conferences/placement events are held which are widely covered by the students of Department of Journalism.

5.3.5. **Does the university have a Student Council or any other similar body? Give details on its constitution, activities and funding.**

Since the student elections are banned in the Punjab State, the University has made an alternative arrangement. The Constitution of Students Union is part of the University Calendar. The University has provision for Student Council as follows:

- **Student Welfare Council:** Students Welfare Council is constituted in the beginning of the session by taking representatives from different classes in each department on the basis of merit. Also one representative each is taken on the basis of sports activities, cultural activities and NSS activities. The council represents student community in welfare activities which are funded by the university.

- **Dean Students Welfare:** The Department of Students Welfare deals exclusively with the problems and grievances of the students during their study period at the campus. It coordinates and monitors various activities associated with the welfare and discipline to make the stay of students at campus comfortable and congenial.

5.3.6. **Give details of various academic and administrative bodies that have student representatives on them. Also provide details of their activities.**

The students are members of the following committee:

- Fee concession committees are constituted in every department and this committee is authorized to give fee concession.
- Welfare Council of students is constituted by Dean Student Welfare office and meetings are held from time to time to solve the problems.
- Mess committee is constituted in every hostel and this committee administrates the affairs of the mess.
- Hostel committee is constituted in every girl's hostel to look into the issues relating to the hostel.
- Cultural committees are constituted.

- Committees for various functions/activities, seminars/ conference, etc., include the students.
- Sports and Cultural committees also include the students.
- Prevention of Women Harassment Cell is constituted to look into the issues relating to harassment of women.

Any other information regarding Student Support and Progression which the university would like to include.

- Online Application Forms
- Latest information on website
- Results are uploaded on website
- Information to students through e-mail and SMSs
- Transport facility for students
- Welcome Pamphlet
- Welcome Meetings
- Anti-ranging Committees
- Welfare Council and its Sub-committees
- University Transport and Concessional Bus Passes
- Educational Tours and Trips
- Student Participation in Fee Concession
- Student Participation in Discipline Maintaining
- Students' Database
- Debate Club
- Repertory Plays
- Cultural Immersion Program
- Evening Classes
- Free courses in Foreign Languages (German and French)
- Sports Activities
- Open Air Theatre
- Coffee House & Canteens
- Theatre (Kala Bhawan)

CRITERION: VI
GOVERNANCE, LEADERSHIP AND MANAGEMENT

Criterion-VI
Governance, Leadership and Management

6.1   INSTITUTIONAL VISION AND LEADERSHIP

6.1.1   State the vision and the mission of the university.

The vision and mission of Punjabi University, Patiala is to promote Punjabi language, literature, art and culture, and the development of Punjabi language as a medium of instruction and examination in various fields of study and generally for the promotion of higher education and research.

6.1.2   Does the mission statement define the institution's distinctive characteristics in terms of addressing the needs of the society, the students it seeks to serve, the institution's tradition and value orientation, its vision for the future, etc.?

Yes, Punjabi University, Patiala clearly addresses the needs of the society and students it seeks to serve as mentioned in the mission statement. Besides generation and transmission of knowledge, Punjabi University Act among others requires the University to make provisions

o for imparting education in the humanities, sciences, learned professions and such other branches of learning as it may think fit and for research and advancement and dissemination of knowledge.
o to provide for research in Punjabi literature, to undertake measures for the development of Punjabi language and to progressively adopt it as a medium of instruction and examination for as many subjects as possible.
o to prepare, translate and publish, and to assist other bodies and individuals in the preparation, translation and publication of books, journals, periodicals and any other material in Punjabi or other languages
o for the spread of education among classes and communities which are educationally backward.
o for the maintenance of NSS and Sports facilities or other similar training corps, physical and military training and students' association and sports and athletic clubs.

Accordingly, the University has given a major emphasis on the promotion and development of Punjabi language, literature, art and culture. In order to fulfil this objective, besides the establishment of a teaching Department of Punjabi, the University has set up a number of research departments/centres & cells such as Department of Punjabi Development and under this Text book Cell and Translation Cell, Department of Punjabi Literary Studies,

Department of Punjab Historical Studies, Department of Lexicography, Centre for Advanced Media Studies, etc.

For the promotion of art and culture, the teaching departments such as department of Theatre and Television, Department of Music, Department of Dance and Department of Fine Arts have been established in the University. Two TV films, one on the Painting Traditions of Punjab and the other on Excavation in Singhol have been undertaken for the promotion of art & culture of Punjab.

At UG level, Punjabi has been introduced as a compulsory subject for all the courses. At PG level in many courses students can also opt Punjabi as a medium of examination. Even M. Phil/Ph.D. thesis can be submitted in Punjabi language except in the case of languages other than Punjabi.

In order to promote Punjabi language, literature, art and culture, Punjabi University has launched a Punjabipedia Project and has started a new website *punjabipedia.org*.To know the meaning of English in Punjabi, the University has started Online English-Punjabi Dictionary.

The University has started online programme (Let's Learn Punjabi) to learn Punjabi in Gurmukhi Script through the Advanced Centre for Technical Development of Punjabi Language and Culture. To make it easier to learn computer in Punjabi for those people who know Punjabi, the University has started an online programme "Punjabi Computer Help Centre".

To promote Punjabi language, literature and culture, the University organises every year the following conferences:

- o Vishv Punjabi Sahit Conference
- o Sarb Bharti Punjabi Conference
- o Antar Rashtri Punjabi Vikas Conference
- o Punjabi Diaspora Conference

The University has established Bhai Vir Singh Chair to promote Punjabi Literature. Annual lectures on prominent Punjabi writers such as Bhai Kahan Singh Nabha, Professor Harbhajan Singh and Prof Pritam Singh have been organized.

To promote the tradition of Gurmat Sangeet, the University has established exclusive department of Gurmat Sangeet. To preserve and promote the all inclusive treasure of Gurmat Sangeet, the University has started Gurmat Gyan online Teaching. For this Bhai Randhir Singh online Gurmat Sangeet Library has also been established by Gurmat Sangeet Chair.

Besides this, the University was the first in the region to establish a teaching department Shri Guru Gobind Singh Department of Religious Studies.This is housed in Guru Gobind Singh Bhawan. It offers Master level and M.Phil programmes in Hinduism, Buddhism, Christianity, Islam, Jainism and Sikhism.

For carrying out research in Sikhism, special research departments such as Guru Granth Sahib Studies and Encyclopaedia of Sikhism have also been established. The University has also released a set of four volumes, on Encyclopaedia of Sikhism prepared by a renowned Professor Late Sardar Harbans Singh.

Taking into consideration the need of the hour, the University has introduced a number of new courses in the areas of Engineering, Management, Computer Science, Social Sciences, Advanced Media Studies, Hospitality and Hotel Management, Certificate Course in Guru Granth Sahib Studies. The University has also established Regional Centres, Neighbourhood Campuses and Constituent Colleges in the rural and remote areas such as Damdama Sahib, Jaito, Dehlan Sian, Joga Ralla and Jhunir. The goal is to take professional and job oriented courses to the door steps of the rural students and students of disadvantaged sections of the society.

Students participate in sports, cultural, co-curricular and extra-curriculur activities at different levels. These activities are listed in 5.3.1 and 5.3.3.

Many of these activities like Lok Mela, Lok Khedan (Local Sports), Folk Dances, etc. promote Punjabi art and culture. The achievements of students in the above activities are listed in 5.3.2.

6.1.3 How is the leadership involved?

- in ensuring the organization's management system development, implementation and continuous improvement?
- in interacting with stakeholders?
- In reinforcing a culture of excellence?
- In identifying organizational needs and striving to fulfil them?

The leadership is involved in ensuring the organization's management system development, implementation and continuous improvement through various statutory and standing committees (please refer to 6.2.2 for details of various committees) and also by inviting proposals from the Departments, Neighbourhood Campuses, Regional Centres, Constituent Colleges and Administrative Sections.

The faculty and administrative staff are deeply involved in management, right from the administrative committee of each department to the Senate. There is committee system for decision

making and monitoring of work at all levels and continuous and meaningful dialogue with the teachers, non-teaching staff and students. This helps various departments and sections to frame their short term and long term goals conforming to the vision and mission of the University.

The University leadership is involved in reinforcing the culture of excellence in all spheres of academic and administrative activities. The University has designed a mechanism to improve the quality of teaching and research in an organized way. The faculty of the institution undergoes various faculty improvement programmes/ trainings such as refresher courses, orientation courses, workshops, symposiums, conferences and seminars at national and international level.

6.1.4   Were any of the top leadership positions of the university vacant for more than a year?

No

6.1.5   Does the university ensure that all positions in its various statutory bodies are filled and meetings conducted regularly?

Yes

6.1.6   Does the university promote a culture of participative management? If Yes, indicate the levels of participative management?

Yes, the University promotes a culture of participative management.

The Head of the University constitutes the committees responsible for the planning, monitoring and execution of work to achieve various goals of the University. In all the important committees, the Head of the University, i.e. the Vice-Chancellor himself is the Chairman who remains in touch with various committees to ensure proper coordination and effective functioning.

The faculty is involved as members of various committees in decision making. The Heads of departments, Deans, Registrar, Director, Planning and Monitoring, Professor In-charge Finances, Director IQAC, etc., are teachers from different faculties in the University.

In order to make objective decisions at various levels in matters related with academic and administrative issues, the faculty, Head of Departments, Deans of Faculties and senior administrative staff members are involved by holding the meetings of:

- o the faculty members of the departments
- o the Administrative Committees of each department.
- o the Boards of Post-graduate & Undergraduate Studies.
- o heads of Departments and Deans of faculties chaired by the Vice-Chancellor from time to time to discuss vital issues.
- o the committees constituted by the Vice- Chancellor on specific issues
- o Statutory committees constituted by the Syndicate and the academic council.
- o Various standing committee chaired by the Vice-Chancellor.

6.1.7   Give details of the academic & administrative leadership provided by the university to its affiliated colleges and the support and encouragement given to them to become autonomous.

The College Development Council is a vital link between UGC, the colleges and the State Government and frames policies for the integrated development of colleges. The University lays down certain conditions for starting of new Programmes, Departments and Colleges and provides support and guidance to colleges for promoting quality education. It allows the colleges to use some of the facilities available in the University such as Laboratories, Libraries, Computer Centre, etc., for specific purposes and provides support by extending help for setting up Laboratories, Computer system in colleges, etc. UGC also extends help to the colleges by giving them grant for starting certain vocational courses and specific academic projects. Financial needs of the colleges are met by the State Government and/or the management of the college concerned. Principals' Conference also helps in highlighting the developmental needs of the colleges and suggesting the methods of meeting such needs on the part of the University and the State Government. The Academic Council, the Syndicate and the Senate which have the representatives of the colleges also help in the process of meeting the developmental needs of the affiliated colleges.

6.1.8   Have any provisions been incorporated / introduced in the University Act and Statutes to provide for conferment of degree by autonomous colleges.

No

6.1.9   Does the university groom leadership at various levels? Give details.

Yes, the University grooms leadership at various levels.

The University gives the opportunity as per the University calendar to all the eligible faculty members for three years to act as the Head the Department. Besides this, the faculty members are given a

chance to lead the University in various capacities such as Deans, Directors, Coordinators, Provost, etc.

The faculty members of the University are also given special training to update their knowledge. Human Resource Development Centre of the University is entrusted with the task of conducting orientation courses/ refresher courses/ workshops/other short term programmes for teachers. The Centre also conducts workshops/ training programmes for research scholars and administrative staff of the University.

The Department of IAS & Allied services impart training to students for various competitive examinations.

Under the leadership of the University, the Director Sports trains sports person to excel in their field. Due to hard training of our sportsmen, the University athletes participated in national and international sports competitions. The University has won Shri Meghnath Nageshkar Trophy for the overall championship in Men's section in All India Inter University sports competitions for the year 2004-05. The University won for the first time Maulana Abul Kalam Azad (MAKA) Trophy in the year 2005 and after that its winning spree continued for the years 2006-07, 2007-08, 2008-09, 2011-12, 2012-13 and 2013-14.

The leadership is also groomed by involving them in the following activities:
o   extra-curricular activities of the departments
o   Annual functions
o   teaching and non-teaching staff games
o   NSS camps
o   organisation of conferences, workshops, seminars, short term programs, etc.

6.1.10   Has the university evolved a knowledge management strategy? If yes give details.

Yes, the university has evolved a knowledge management strategy to acquire, store and disseminate knowledge on different areas.

Gurmat Sangeet Department of the University is the first in the world to introduce Sikh Sacred Music as a subject in the Faculty of Arts & Culture. Gurmat Sangeet as an independent academic discipline has been introduced to create awareness and spread the knowledge and essence of Sikh Sacred Music among people of diverse cultures. The Department has digitized various ancient manuscripts. The Department has provided various archives of music online on its website linked to the University website. The Department has established Gurmat Sangeet Library first of its kind to provide the knowledge of the field to the masses. Various

"RAAG' collections have been made available online.

The Botany department of the University has made its Herbarium available online. All the major facilities, projects and achievements have been made available on departmental website. A journal of Micological Society of India is published online on website fungiindia.co.in.

Women Studies Centre (WSC) is playing an important role in sensitizing women against discrimination, violence and social evils. The aim is to steer them to the road of success and ensure welfare of women and children. WSC organizes conferences every year and makes the important contributions available through website. The centre has made available Women Laws in validated form in Punjabi language on its website. The centre has provided useful links of NGOs and social activists on its website.

The Centre for Development of Economics and Innovation Studies (CDEIS) established with financial support from the Ministry of Finance, Government of India at Punjabi University, Patiala in April, 2012 is a research organization with worldwide activities and interests. The Centre has started online Journal 'Millennial Asia' which is a multidisciplinary, refereed biannual journal of the Association of Asia Scholars (AAS). Research contributions and publications, books, etc. along with major projects undertaken by the Centre are available on University website.

The University has a Centre for the South-West Asia (Pakistan-Afghanistan) studies that provides sensitization to the society regarding the problems and issues pertaining to this part of the world.

The University is also a contributor to the "Shodhganga," a project of UGC to provide online access to the PhD research being conducted in the Indian Universities. A large number of PhD Theses have been uploaded.

The University has Advanced Center for Technical Development of Punjabi Language, Literature, Art & Culture, which is dedicated to the development of Punjabi Language and dissemination of the cultural values and customs. The major contributions of the Centre are Gurmukhi to Shahmukhi convertor, Font convertor from Punjabi/Hindi to Unicode, Gurmukhi OCR, Gurmukhi grammer checker, Hindi to Punjabi and vice-versa convertor and First Punjabi typing pad.

The Hostel administration, rules and admission procedure have been made online through the University website.

The University has a "Punjabipedia" which is a repository of the

Punjabi cultural and literature writings (includes 41122 Publications). It provides the support for the Punjabi search engine.

The University has a Punjabi Computer Help centre that is dedicated to help the masses to use Punjabi on Computers for their day to day work. The centre organizes workshops regularly, has published literature regarding use of fonts and keyboards, A collection of downloadable software has also been made available.

The University has provided information regarding RTI act and under this a large amount of information such as university budget, University calendar has been made public through website.

The University has a prestigious Library that has all the books and volumes of the Journals indexed via online system. A seamless access to the Online Journals is also available.

The University has also implemented Right to Service.

The entire process of admission to the University has been made online, transparent and public via website. A Central admission cell regulates all the activities pertaining to the admissions. The registration of the students has been made online.

The examination system has been made quite effective using the Online procedures and marking of the answer scripts is done using OMR sheets.

Besides, the following important functions of the University have been partially automated and knowledge is managed digitally:

- o Accounts
- o Examinations
- o Library
- o Publication Bureau
- o Distance Education
- o Girls Hostel
- o Centralized Admission Cell

6.1.11 How are the following values reflected in the functioning of the university?

- Contributing to national development
- Fostering global competencies among students
- Inculcating a sound value system among students
- Promoting use of technology
- Quest for excellence

The University is producing large number of brilliant students in different disciplines who are supposed to serve the nation by

contributing their skills and Knowledge. The education imparted to the students is at par with the global competence. The University has produced good number of researchers who are necessary for the development of nation in various fields. To promote Punjabi language, literature, art and culture, the University has done tremendous quality work.

To inculcate a sound value system among students:

o the University celebrates Independence day, Republic day, Environment day, Earth day, Science day, Anti-tobacco day, Swachh Bharat Abhiyan day on Gandhi Jyanti, Women's day, Vishavkarma day and the University Foundation day.
o the students are involved in various beyond syllabus activities by the departments which help them to improve/develop the overall personality and values such as participative approach, team work, trust, honesty, dedication, etc.
o Youth Welfare Department of the University has organised many competitive inter/intra university cultural programs. Department of Theatre and TV organises street Plays (Nukkad Nataks) regularly on the social issues. It not only creates awareness among the society but also inculcates many good values among the students. Students also imbibe and cultivate many good/moral values through the NSS activities.

The faculty is encouraged to use modern teaching aids. On need basis funds are provided to the departments for the same. ICT facilities are used in the library, examination cell, admission cell, and teaching and research departments.

Number of Departments under UGC-CAS, UGC-SAP and DST-FIST are 3, 8 and 11 respectively. Other departments are also working hard to achieve excellence in their areas of research, teaching and other activities. Quest for excellence in sports have made University the winner of MAKA trophy seven times during the last eight years.

6.2   STRATEGY DEVELOPMENT AND DEPLOYMENT

6.2.1   Does the university have a perspective plan for development? If yes, what aspects are considered in the development of policies and strategies?

Yes, the University has a perspective plan for development. The IQAC and Planning and Monitoring Board have been constituted by the University to prepare long term and short term plans for the overall development of the university. Both of these consider various development projects prepared by the Director of Planning & Monitoring after assessing the needs of various teaching/research departments, various administrative branches of the University,

teaching and non-teaching staff members and students. The implementation and monitoring of these plans are carried out from time to time through various statutory and other important bodies constituted by the University.

The important outcomes of the IQAC and Planning and Monitoring Board during the last five years are:

- Creation of new Departments, Schools and Centres:
  - Department of Tourism, Hospitality and Hotel Management
  - Department of Civil Engineering
  - University School of Applied Management
  - Centre for Advanced Studies in Physics
  - Centre for Research in Economic Change
  - Centre for Development of Economics and Innovation Studies (CDEIS)
  - Centre for Diaspora Studies
  - Centre for Census Studies and Research
  - Centre for South West Asia Study (Pakistan and Afghanistan)
  - Baba Farid Centre for Sufi Studies
  - Bhai Veer Singh Chair
  - Bhai Gurdas Chair

- Sanction of new courses at Campus:
  - M.Tech. (Regular and Part Time) in Computer Engg. (CE), Electronics and Communication Engg. (ECE) and Mechanical Engineering (ME).
  - M.Sc. in Nanotechnology.
  - M.Sc. in Environment Science.
  - M.A. Women Studies.
  - B.Tech. T.V. and Film Production.
  - P.G. Diploma in Sikh Theology
  - P.G. Diploma in Social Impact Assessment
  - Diploma in Divinity
  - Diploma in HIV and AIDS Counselling
  - Bachelor in Social Sciences (Honours School)
  - Certificate Course in Fingerprint Technologies (six month course)
  - Certificate Course in Sri Guru Granth Sahib
  - M.Sc (FYIC) in Botany

- Increase in intake of students in various existing courses such as B.Tech. in CE, ECE and ME, Five Year Integrated (B. Tech.-Management) in ECE, CE, ME and Civil Engg.

- Sanction of new courses at Neighbourhood Campuses:
  - M.Sc. (I.T.)
  - M.B.A.
  - B.C.A.

- Establishment of online Bhai Randhir Singh Gurmat Sangeet Library to promote Sikh Sacred Music at global level and to preserve the publications related to Gurmat Sangeet viz. books, journals, magazines, souvenirs, periodicals and Simrati Granths, etc.

- Initiation of Gurmat Gyan Online Teaching Program so as to provide a medium to children and adults for learning Gurmukhi, Gurmat Studies, Sikh String Instruments, Percussion Instruments (Jorhi/Tabla) and Shabad Keertan tradition of Gurmat Sangeet.

- Enrichment of the Main University Library by adding more titles and subscribing to new Journals. Presently the library has more than 4,20,000 volumes and subscribes to more than six hundred journals. The library is activelyparticipating in the INFLIBNET programme.

- Addition of a new specialized wing called Dr. Ganda Singh Punjabi Reference Library with an aim to build a strong collection on Punjab History, Culture, Sikhism, Punjabi Language and Literature. The Library comprises of nearly 99,267 documents out of which 57,719 documents have been collected from eminent historians and litterateurs. These contain newspapers, magazines, books, diaries and manuscripts pertaining to the 19th and 20th centuries. These documents contain information, which is of immense value to the scholars. 122 important daily/weekly newspapers and periodicals published all over the world are received regularly in this Library.

- Starting of various online programmes and projects viz. Gurmat Gyan Online teaching program, English-Punjabi Dictionary, Let us Learn Punjabi, Computer learning in Punjabi, etc.

- Establishment of fully air conditioned KITAB GHAR to promote dissemination of literature published by the Publication Bureau of Punjabi University, Patiala.

- Initiation of Video Conferencing facility by the University Computer Centre for need based distinguished lectures and Ph.D. viva-voce examination.

- Construction of new buildings for Sri Guru Granth Sahib Studies, World Punjabi Centre, Kitab Ghar and several other Departments like Computer Science, School of Management Studies, Sports Science and Gurmat Sangeet.

- Extension of academic block of Engineering Departments and adding up of latest equipment and Software to the existing labs.

- Setting up of Neighbourhood Campus at Jaito, (District Faridkot), during the academic session 2008-2009 for the development of people from educationally backward Malwa

region of Punjab.

- Adoption/Setting up of 11 Constituent Colleges for promoting Higher Education in the rural areas of Punjab.

- Extension of Hostels for Boys and Girls.

- Extension of examination block and Computerization of admission and examination system.

- Setting up of Human Resource Development Centre for the training and development of faculty staff and research scholars.

- Setting up of Sophisticated Scientific Instrumentation Centre to cater to the research needs of the faculty and research scholars.

- Strengthening of Internal Quality Assurance Cell (IQAC), in line with the recommendations of NAAC for continuous quality improvement of the academic and administrative functions of the University.

- The Advanced Centre for Technical Development of Punjabi Language, Literature and Culture, established in February 2004 with the aim of conducting research and development in linguistic and computational aspects of Punjabi Language as well to spread the usage of Punjabi on computers and internet, has received a number of sponsored research projects from various national and international funding agencies, viz. The Information Society Innovation Fund (ISIF), Australia, Ministry of Communication and Information Technology, India, Department of Science and Technology, India, University Grants Commission, India, and Defence R&D Organization. The outcome of these projects has led to the development of many path breaking technologies for the first time like:
  - o First Urdu Optical Character Recognition (OCR) System
  - o First Web based Gurmukhi OCR System
  - o First Bilingual Gurmukhi/Roman OCR System
  - o First Bilingual Intelligent Automatic Font Conversion Utility
  - o Punjabi Khoj, Customized Search Engine for Punjabi

- Department of Computer Science has been awarded an International Project for Sindhi Transliteration.

- 08 Departments of University are recognized by UGC under SAP viz. Department of Botany, Department of Chemistry, Department of Computer Science, Department of Zoology and Environmental Sciences, Department of Pharmaceutical Sciences and Drug Research, Department of Human Genetics, Department of Forensic Science, Department of School of Management Studies.

- 11 Departments are recognized under DST-FIST viz. Department of Forensic Science, Department of Chemistry, Department of Computer Science, Department of Zoology and Environmental Sciences, Department of Pharmaceutical Science and Drug Research, Department of Physics, Department of Biotechnology, Department of Botany, Department of Statistics, Department of Mathematics and Department of Human Genetics.

- 03 Departments are recognized under UGC-CAS viz. Department of Physics, Department of Punjabi and Department of Economics.

- Department of Physics got DST Funded Project, Preparation of Silicon Sheets by Capillary Action Shaping Technique (CAST) for solar cell Applications, underwhich an indigenous laboratory has been established to manufacture Silicon sheets.

- The University has established IPR (Intellectual Property Rights) Cell to provide   Technical, Financial and Legal assistance to the faculty members and research scholars in applying for the patents.

- Enhancement of Community Engagement:
  - Global fund to Fight AIDS, TB and Malaria Project (Amount: About Rs.02 Crores) allocated to the Department of Social Work. Under this Project the counselors from the state of Punjab are periodically trained and supervised to check HIV/AIDS.
  - Department of Social Work in its Field Work provides community based services in the fields of rural/urban/ tribal community development programmes, women development, child development, physical and mental health, human rights, services for the handicapped, non-formal education, social education, youth development, income support programmes, schools, family services, drug de-addiction services, family care, individual counseling and recreation programmes.
  - Various activities and programmes under the banner of NSS viz. Awareness on Global Warming, HIV/AIDS, Disaster management, Road safety, Health, Blood donation camps, Eyes check-up camps etc are organized.
  - For extending higher education services to rural students, the University has made a provision of additional 15% of the total seats to be filled from the rural areas.
  - Women's Club organizes various community welfare activities for the development of elderly women, children of disadvantaged sections of the society and other sections of the community from time to time.
  - Physiotherapy is running 3 specialized OPDs within the University (General, Neurological and Sports). Besides these Geriatric OPD in collaboration with Senior Citizen Welfare

Association, Model Town, Patiala is being run for the treatment of the suffering elderly people. Clinical Physiotherapist and faculty along with students of Bachelors and Master Classes are posted in these OPDs on rotation basis. More than 100 patients with variety of problems from different parts of Punjab, Himachal Pradesh and Haryana along with the students and staff of the University are being treated in these OPDs on daily basis. The Department is collaborating with Physical, Medicinal and Rehabilitation Department of Government Medical College, Patiala for providing palliative and therapeutic interventions to patients of varied conditions in Orthopaedics, Neurological, Cardio respiratory Intensive Care Units under single roof. The Department is also rendering its physiotherapy service to a few NGOs (Navjeevani, Sullar, Asha and Helpage) and to patients in private Hospitals of Patiala (Columbia Asia, Amar Hospital, Sadbhavana Hospital, Akal Hospital) with a view to expose the students to private sector which help them to increase their employability.

- The Social Work Department of the University over the years through social work has been dealing with socially relevant issues e.g gender discrimination, environment, HIV/ AIDS and issues concerning elderly persons and socially disadvantaged people housed in welfare homes including old age homes, Orphanages, Pingalwara and all those places where such people are treated including nursing homes and hospitals. The P. G. students of the Department are made to adopt villages as a part of their project to undertake Social Work. Recently a global project "Saksham-GFATM" was completed in the Department under which training programmes on HIV and AIDS counseling were regularly conducted since its start in 2009.

- To promote internationalization of the University, a number of international collaborative research projects and Memoranda of Understandings (MoUs) have been signed, These include:

  o International Research Collaborations:

    The Advanced Centre for Technical Development of Punjabi language, Literature and Culture of the University has undertaken a number of collaborative research projects which are given below:
    - Indo-UK joint project "Enhancing Communication and Co-operation across South Asia: An ICT Solution to Script Barriers" with the University of Manchester, UK during 2014-2015. Project sponsored under ISIF grants, Australia.
    - Indo-US collaborative project, "Transliteration of Punjabi words in the English-Punjabi Dictionary from the AP2171 Romanization into the modified Perso-Arabic script", with

University of Maryland, Maryland, USA (2012-2013).

- Indo-UK joint project "Web based Transliteration and Translation System between Urdu and Hindi Languages" with University of Manchester, UK during 2009-2010. Project sponsored under ISIF grants, Australia.

o Memorandum of Understanding (MoU):

- MoU is signed with the Wilkes University Pennsylvania (USA) to start integrated programmes in Engineering-Management. The Departments of Computer Engineering, Civil Engineering, Electronics and Communication Engineering, and Department of Mechanical Engineering are involved in it.

- MoU of Botany Department with IHBT (CSIR) Palampur for collaborative research.

- MoU of Botany Department with Directorate of Mushroom research (ICAR) Chamba Ghat Solan, H.P.

Also please refer to section 3.2.5 of Criterion III: Research, Consultancy and Extension for details.

6.2.2   Describe the university's internal organizational structure and decision making processes and their effectiveness.

The internal organisational structure of the University is shown in Fig. 6.1 as under:
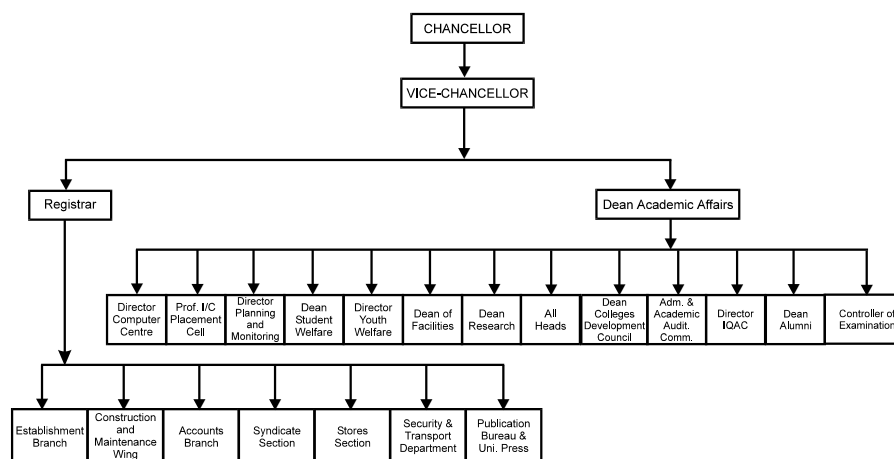
Figure 6.1

The detailed description of the present form of the different statutory and other important bodies of the University is as under:

- **The Senate**

    The Senate of the University has been entrusted with the following powers and functions, namely:

- to review, from time to time, the broad policies and programmes of the University and to suggest measures for the improvement and development of the University,
- to consider and pass resolutions on the annual report and the annual accounts of the University and the audit report thereon,
- to advise the Chancellor in respect of any matter which may be referred to it for advice and,
- to perform such other duties assigned to it by this Act or the Statutes or by the Chancellor.

- **The Syndicate**

It is the principal executive body of the University responsible for management and administration of the revenue and property of the University and for the conduct of all administrative affairs of the University.

- **The Academic Council**

It is the main academic body of the University. It is responsible for making policies on all academic matters and for maintaining standards of instructions, education and examination within the University. It also advises the Syndicate on all matters related with academics, such as organisation assignment to faculties in their respective subjects, expediency of the abolition or sub-division of any faculty or the combination of one faculty with another etc.

- **The Faculties**

At present, there are 10 Faculties in the University. Each faculty comprises of certain subjects and the Departments of Studies assigned to them by the ordinances. The Faculties also have the powers to publish lists of prescribed or recommended text books & to publish syllabi of the prescribed courses of study.

- **Boards of Studies**

The main job of Boards of Studies is to frame the scheme of the courses, prepare the detailed curricula of the subjects offered under the scheme, recommending reference and text books for the study, prepare panels of paper setters and evaluators for each subject, and prepare the instructions to be issued to the paper setters and the evaluators. The responsibility of preparing the panel of experts for the selection committees for teaching and research posts in the University for consideration and approval by the Academic Council of the University.

- **The Finance Committee**

    The Finance Committee finalizes the budget of the University and makes suggestions on all issues having financial implications and state funding for the consideration and approval of the Syndicate of the University. The committee, thus, acts as an advisory body to the Syndicate on all financial matters.

- **Administrative Committees of the Departments**

    The Administrative Committees are responsible for deciding all administrative and academic matters of general interest and to keep an eye on the equitable distribution of departmental duties and privileges to all the members of the Department. The committees also decide about the filling of vacant post, creation of new posts and up-gradation of existing posts, allocation of common funds provided by the University, UGC or any other funding agency. They also suggest outlines of tests, syllabi and courses of reading for consideration of the concerned Board of Studies.

- **The Selection Committees**

    The Statutes of the University provide for the constitution of the Selection Committees for Teaching and Research Posts for the University Departments/Institution/Centres on whose recommendations the appointments are made by the Syndicate to such posts. For the appointment of Registrar, Administrative Officers of Class 'A' and for other non-teaching and non-research posts the Syndicate appoints ad-hoc Selection Committee whose recommendations are approved by the Syndicate for making the appointments.

- **Other Important Bodies Constituted by the University.**

    o **Standing Committees**

    All authorities of the University have the power to appoint, from time to time, such and so many Standing Committees or Sub-Committees or Boards, as they deem fit and may in a special cases, if they deem it necessary, appoint to them persons who are not members of such authority. Such Committees or Boards may deal with any subject delegated to them subject to subsequent confirmation by the Authority appointing them.

    o **Post-Graduate Boards in Studies and Research**

    These Boards are responsible for considering and granting approval to the recommendations of the Departmental Research

Boards regarding the registration for M. Phil. and Ph.D. of the candidates under the respective faculties. The Boards are entitled for granting extension in the maximum time period allowed under the ordinances or to cancel the registration on the recommendations of the Departmental Research Boards.

o **Research Award Committee**

Research Award Committees are constituted for the award of Ph.D. Degree to the candidates after going through the recommendations made by the examiners appointed for evaluating the dissertations and their reports regarding the viva-voce conducted by them.

o **Departmental Research Board**

Every teaching department of the university has a Research Board which goes through the relevance of the topic for carrying out research, objectives of the study, research-methodology, and appointment of supervisor and co-supervisor etc. before recommending the case to the Post-graduate Board of Studies and Research for granting approval for registration of the research scholar as a M. Phil/Ph.D. student.

o **Planning Board**

The Planning Board has been constituted by the University to prepare long term and short term plans for the overall development of the university. The Board considers the various developmental projects by the Directorate of Planning & Monitoring after assessing the needs of the various teaching/ research departments, administrative offices of the University, teaching and non-teaching staff members and students apart from analyzing the development schemes of various government agencies, such as UGC, CSIR, DST, AICTE, ICSSR etc. The recommendations of the Board regarding such proposals are placed before the Syndicate for consideration and approval.

o **The College Development Council**

The College Development Council has been formed with the objective that it would serve as an academic guide to college system and ensure interaction between academic facilities available with the university and the college teachers. It is a vital link between University Grants Commission, the University, affiliated colleges and the State Education Department. The main objectives of the college Development Council are to frame policy for proper planning and integrated development of colleges, advise the university on matters such as academic, teaching and research facilities needed in the colleges, extending help to the colleges for proper utilisation of

grants and efficient implementation of UGC approved projects and reforms, restructuring of courses to make them more relevant and significant to the students and the society as a whole.

o **Internal Quality Assurance Cell (IQAC)**

Internal Quality Assurance is maintained by IQAC. The day to day activities of IQAC are managed by the Director IQAC.

6.2.3   Does the university have a formal policy to ensure quality? How is it designed, driven, deployed and reviewed?

Yes, the university has a formal policy to ensure quality.

The academic and administrative quality of the University is ensured through the following measures:

- **Monitoring of Departmental / Administrative Tasks:**

  o Annual Quality Assurance Report submitted by the individual departments/functionaries.
  o Regular monitoring of the various departmental activities through Administrative Committees of the respective departments.
  o Monitoring of admissions, teaching and examination schedule etc. by Dean Academic Affairs for adherence to the University norms.

- **Monitoring of Faculty Performance:**

  o Self-Appraisal Report/PBAS Proforma submitted by the individual Faculty members at the end of each academic session.
  o Evaluation of performance of the faculty applying for promotion under CAS by duly constituted screening committees/selection committees.

- **Teaching Activities:**

  o Continuous assessment for the performance of students through assignments and internal tests.
  o Strict system for minimum compulsory attendance.
  o Encouraging the use of modern teaching-learning aids, viz. Smart class rooms, E-Resources, Power-Point Presentations, Animations, Simulations, Lectures from NPTEL and You-Tube.
  o Awarding Medals and Scholarships to meritorious students.

- **Examination and Evaluation System:**

  - Computerization of examination system, viz. online posting of examination schedule, examination results etc.
  - For ensuring transparency in evaluation there is a provision made for the students to see their evaluated answer sheets on deposition of some prescribed fees.
  - Table marking system has been introduced to speed up the evaluation process.
  - Decentralization of the final examination for better management.

- **Employment Enhancement:**

  - There is full-fledged Placement Cell in the University to tie up with the companies for campus placements. The Placement Cell also grooms the students for better placements.
  - The Placement Cell also organizes Soft Skill and Communication Skill Development Programmes for students.
  - Many departments arrange Webinars and Industrial visits for the students.
  - Lectures/Workshops by eminent resource persons from industry/premier academic and research institutes are organized by various departments.
  - MoUs are signed with various industrial units for providing training to students.

- **Upgradation of academic standards:**

  - Implementation of suggestions received from external experts having representations on various University bodies, such as Boards of Studies, Boards of Post-Graduate Studies & Research, the Faculties, Academic Council, etc.
  - Measures undertaken on the basis of feedback received from various committees, faculty, students, employers, parents of the student, alumni and experts from corporate sector.
  - Incorporation of suggestions received from resource persons /delegates participating in conferences, workshops and special/extension lectures organized by the university,

- **Monitoring of Ph.D. Research Work:**

  - Evaluation of Ph.D. research proposals by Departmental Research Boards followed by Boards of Post-Graduate Studies & Research.

- o Regular monitoring of research work through annual progress reports and annual seminars of the candidates registered for Ph.D.
- o Pre-submission assessment of Ph.D. research work by Departmental Research Boards followed by Final Evaluation by two independent external examiners and conduct of viva voce cum seminar.
- o Publication of at least one paper by the student in refereed journal before the submission of Ph.D thesis.

- **Monitoring of Research Projects:** Monitoring of all the minor and major research projects is done by the respective funding agency. In cases, where the University is the funding agency monitoring is done by the Dean Research.

- **Monitoring of Affiliated Colleges:**

  Monitoring for the affiliated colleges is carried out through the designated inspection teams. It is also done by the College Development Council.

- **Financial Audit:**

  University has mechanism for external audit.

- **Sports and Cultural activities.**

  Sports department provides training and coaching to the sports students. The facilities and quality of coaching being provided to the students can be assessed from the fact that during the last eight years Punjabi University Patiala has won MAKA Trophy seven times.

  Youth Welfare Department organizes training and rehearsal sessions for the cultural activities. Our students have got a number of prizes and medals in cultural competitive programmes held at Regional and National levels. For details about the participation and achievement of students in sports and cultural activities please see 5.3.1 and 5.3.2

  The University on regular basis organizesNSS camps and other youth welfare activities by engaging the students in welfare activities for the community and also for inculcating in them sound value system.

- **Maintenance of Campus Living Environment**

  o For monitoring the overall physical environment in the University, there is a separate Department of Horticulture with adequately qualified and trained manpower.

  o CRYSANTHEMUM show is organized every year by the Construction Wing of the University to sensitize the University employees and students about the environment.

  o Punjabi University Environment Society (PUES), a University level society, conducts various activities for maintaining flora and fauna of the University like organizing awareness camps regarding maintenance of neat and green campus, building nests for birds etc.

  o The University has its own Nursery and Botanical garden to develop and grow different varieties of plants, seasonal and ornamental flowers.

  o Promoting the use of Compost for fertilization of plants on the University campus.

  o The University has taken initiatives to preserve its water resources by creating Waste Water Management System, Sprinkler system etc.

  o Installation of Solar panels for street light in collaboration with *Punjab Energy Development Agency (PEDA)*.

  o In pursuance of the Govt. Policy, Smoking and use of Polythene bags are prohibited in the University.

- **Monitoring of Eatable Items Served in Cafeteria and Hostel Mess.**

  Regular checking by University level committees is done for ensuring neat and clean surroundings and supply of hygienic food in Cafeterias and hostel messes.

6.2.4   Does the university encourage its academic departments to function independently and autonomously and how does it ensure accountability?

Yes, the university encourages its academic departments to function independently and autonomously.

The University ensures the accountability of the academic departments through:
o Annual Reports
o Annual Quality Assurance Report
o Board of Studies
o Departmental Research Board

- Board of Post Graduate Studies and Research
- Dean Faculties
- Internal Quality Assurance Cell
- Academic Council
- Syndicate
- Senate
- Other Committees Constituted by the Uni. from time to time.

6.2.5 **During the last four years, have there been any instances of court cases filed by and against the institute? What were the critical issues and verdicts of the courts on these issues?**

Since the University administration carries its decision making on well-established rules and practices strictly in pursuance of its Calendar, Statutes and Ordinances, the fairness and transparency remain paramount in all issues relating to day to day functioning of the University. Nevertheless, keeping in view the colossal nature of the institute and the diversity of the work involved, the redressal of grievances through the process of adjudication can not be altogether ruled out. In this backdrop, there were around 60 court cases filed against the University, during the last four years. The court cases filed during this period were mainly related to the grievances on the process of admission, examination, appointments and service related matters. The fairness of the University function is evident from the fact that, of the total cases, more than three fourth were dismissed by the appropriate courts or withdrawn by the respective petitioners. The nature of the cases and the subsequent dismissal by the court itself, speak of the minimal arbitrariness and maximum adherence to the laid down policies and practices by the University administration

6.2.6 **How does the university ensure that grievances / complaints are promptly attended to and resolved effectively? Is there a mechanism to analyse the nature of grievances for promoting better stakeholder-relationship?**

In order to ensure that grievances / complaints are promptly attended to and resolved effectively, the University has established various Committees/Cells as mentioned below:

1. Cell for Prevention of Sexual Harassment of Women at Workplace:

This cell has been established by the University to look into the cases pertaining to sexual harassment and violence against women at work place. The cell had been very effective in monitoring day to day grievances.

2. Women Helpline:

This helpline is an initiative of the Punjab Police. Under this

helpline there is a 24x7 Toll-Free telephone number. Besides this, two female beat constables have been deputed to keep vigilance on any suspicious activity inside the University campus.

3. Anti Ragging Committees:

According to the directions of Hon'ble Supreme Court, the Anti Ragging Committees are constituted at the beginning of each academic session in each department which are monitored by a centralized committee. The contact details of all the members of these committees are circulated to all the students. The committees keep a watch on all the activities of the students, particularly during the initial months of the academic session.

4. Office of Dean Students' Welfare:

The department is headed by the Dean Students' Welfare and is aimed to sort out day to day problems and grievances of the students during their study and stay period at the campus. For this purpose Dean Students' Welfare constitutes the student council every year.

5. Departmental Level Grievance Cell:

The Grievances at the level of department are attended to and resolved by the administrative committee of the department. Some of the cases if required are referred to the Dean of Faculty or De an Academic Affairs.

6. Non-Teaching Staff Unions:

In order to resolve grievances of the non-teaching staff members there are elected bodies of Non-Teaching class A and B. The elected members meet the various authorities like Vice Chancellor, Registrar and Deans of the University to sort out their grievances.

7. Online Students' Grievances Redressal Cell:

This cell has been created so that students can directly send their grievances online to the Nodal Officer.

6.2.7 **Does the university have a mechanism for analyzing student feedback on institutional performance? If yes, what was the institutional response?**

Yes,the university has a mechanism for analyzing student   feedback on institutional performance.

These feedbacks are first analyzed at the departmental level. Based

on the analysis the Administrative Committee of the Department provides inputs to the concerned authority/committee for necessary remedial actions.

A few of the actions taken by the University in the recent past are :

- o Strengthening of the Security System.
- o Establishing more Canteens, Kiosks, and other eating joints.
- o Extension of the Hostels and construction of new hostels for accommodating more students.
- o Renovation and Modernization of the Main library.

The sample feedback proforma developed by IQAC is given below:

PUNJABI UNIVERSITY, PATIALA

Feedback from students on Their Campus Experience

Department : _____   Year _____   Semester _____

Sr. No.		Very Good	Good	Satis-factory	Unsatis-factory
1.	How do you rate the Campus?				
2.	How is the Campus maintained?				
3.	How are the Canteen facilities?				
4.	Are there adequate number of play grounds?				
5.	How are these maintained/equipped?				
6.	How do you rate the Gymnasium?				
7.	Do the girls feel secure in the campus?				
8.	How do you find the institution's administrative officers?				
9.	How do you find the transport facility of the institution?				
10.	How do you rate the health care facilities?				
11.	How were the extra-curricular activities?				
12.	What was the attitude of teachers of your department towards the students who participate in the extra- curricular activities?				
13.	Was your time at the University intellectually enriching?				
14.	After leaving the institution how will you talk about it?				
15.	How fairly are the internal assessment marks awarded?				
16.	If no weightage was given to internal assessment, how has your result been?				
17.	How were the opportunities for personal interaction with teachers?				
18.	How are hostel facilities?				
19.	Were you provided training in library use?				
20.	What is your opinion about the library materials for the course?				
21.	Were you provided with training in computer use?				
22.	What is your opinion about the computer facilities?				
23.	How do you rate the student-teacher relationship in the institution?				
24.	Are the classrooms airy/properly lighted?				
25.	How do you rate syllabus of your course?				
26.	How much of the syllabus was covered in class?				
27.	How well did the teachers prepare for class?				
28.	How well were the teachers able to communicate?				
29.	Did the teachers encourage students' participation in class?				
30.	How helpful were the teachers in advising?				
31.	Were the laboratories/workshops/studios adequately equipped and properly maintained?				
32.	Was the practical/studio/workshop component of your courses sequenced integrally with theory classes?				
33.	Applicability/relevance of the syllabus to real life/employment/knowledge in the subject?				
34.	Coverage of UGC/CSIR (NET) syllabus by your course syllabus				
35.	Compatibility of your course syllabus with the subject paper of competitive examinations (IAS, PCS, HCS etc.)				
36.	Do the teachers generate interest of the students?				
37.	Ability of the teachers to design quizzes/Tests/assignments				
38.	Are the teachers easily accessible after the class?				

6.2.8   Does the university conduct performance audit of the various departments

Yes, the university conducts performance audit of the various departments.

6.2.9   What mechanisms have been evolved by the university to identify the developmental needs of its affiliated institutions?

The University identifies the developmental needs of its affiliated institutions through the College Development Council (CDC) of the University. This council is a vital link between the affiliated colleges and the University.

The meetings of the Principals with the Dean (CDC) provide a platform for identifying the developmental needs of the affiliated institutions.

The Academic Council, the Syndicate and the Senate are other platforms provided in the University Calendar for identifying the developmental needs of the affiliated institutions.

Reports of the inspection committees also help in identifying the developmental needs of its affiliated institutions.

6.2.10   Does the university have a vibrant College Development Council (CDC) / Board of College and University Development (BCUD)? If yes, detail its structure, functions and achievements.

Yes, the University has a vibrant College Development Council.

Structure of College Development Council

It comprise of the following:-
1.   Vice-Chancellor
2.   Dean, College Development Council
3.   Representative of the State Government
       (Education Secretary/Director Public Instructions)
4.   Principals = 9
5.   University Teachers = 3
6.   College Teachers = 4

Functions of the CDC

CDC is a vital link between UGC, the colleges and the State Government, which frames policies for the integrated development of affiliated colleges/campuses. CDC serves as an academic guide to college system and ensures that academic facilities available in the University can be utilized by college teachers. It frames policies for

proper planning and integrated development of the colleges. It also prepares perspective plans for the development and opening of new colleges to enable the University and State Education Authorities to take long term decisions on the planning and development of the colleges. It also advises the University in the matters relating to different disciplines taught in the colleges at different levels.

Achievements of CDC:

- The University has granted affiliation to many colleges and various new courses had been started in the colleges.

- During this period the Periodical Inspection of thirteen colleges was done and measures were taken to improve the academic standard of the colleges.

- The subject of Environment Science and Road Safety has been introduced at Under-graduate level.

- The College Development Council resolved the problems pointed out by The Punjab Government College Teacher Association, Principals' Association of Non-Govt. Colleges.

- The College Development Council encouraged the colleges to start Vocational Courses so that they could get maximum benefit of UGC Schemes.

- In addition to above the College Development Council recommended various reforms in examination system i.e. the Practical Exams, Viva-Voce at Part-I Graduate level classes be conducted by the local examiners, evaluation for Environment paper be made by the college level. The exams for add-on courses be conducted at the college level. The information for InternalAssessment and Internal Evaluation be submitted through e-mail to Controller of Examinations.

- During the Academic session 2011-12, the University had started seven Constituent Colleges under the aid of Central Government Scheme in rural and educationally backward areas of Punjab. In addition to this, the University had also started two other Constituent Colleges in rural and educationally backward areas, out of which one is only for girls.

- At present, the University is running eleven Constituent Colleges.

- Punjabi University is following Post-Matric Scholarship Scheme of Centre/State Govt.

- As per instructions by the Centre Government under RUSA Scheme, the College Development Council recommended the implementation of semester system in all Under-graduate and Post-graduate courses from the academic session 2014-15.

- The College Development Council has flexibility and has always encouraged the colleges to start innovative programs, new courses and job oriented courses.

- The College Development Council encouraged the transparent criteria for admissions to various courses and to ensure access and equity to deprived sections of the society by following reservation policy as prescribed by the Government from time to time.

- The College Development Council recommended the change in percentage of internal assessment to improve the involvement of students and teachers in education system.

- The College Development Council recommended the system for On-line submission of application forms for admission to all courses to make the admission procedure more systematic and transparent.

- The College Development Council also recommended On-line submission of forms for affiliation by the college managements for setting-up new colleges and for getting new courses by the existing colleges; to start On-line redressel system for addressing grievances of teachers and students of affiliated colleges ; to improve quality of education in the affiliated colleges, which encourage the colleges to undergo accreditation by the central agencies ; to facilitate and guide the affiliated colleges to start more professional courses, which improve employability of the students.

- The College Development Council encouraged the colleges to start courses related to skill development, language development and personality development as integral part of the main curriculum.

- The College Development Council encouraged the colleges to improve the employability of students.

- The College Development Council encouraged the modernization and strengthening of laboratories in its affiliated colleges with new equipment and apparatus for various science and engineering courses; updating the existing laboratories with modern sophisticated instruments to match the needs of the present times; training to the technical staff; maintenance of the labs.

- The College Development Council encouraged the colleges that being located in rural and educationally backward areas, they have great scope of high enrolment of the students, regular and qualified teachers in these colleges adds to their advantage, large area attached to these colleges can offer them opportunities for expansion, management of these colleges by the University adds to their reputation.

- The College Development Council encouraged the colleges to improve the quality of education ; to upgrade the existing laboratories with latest equipments, hardware and software, to add new Journals and articles in the library and to subscribe to e-journals in an effort to build a rich digital library ; Conversion of class rooms into smart class rooms with modern facilities

6.3   FACULTY EMPOWERMENT STRATEGIES

6.3.1   What efforts have been made to enhance the professional development of teaching and non-teaching staff?

Punjabi University encourages its faculty to attend various National/Internationalseminars/conferences/workshops/summer /winter schools. University Computer Centre has provided campus wide Internet facility banking upon robust backbone technology supported through 1 GB/10 GB fiber links. The University Faculty have an access to on-line journals, net surfing, and intranet facility through this. Non-teaching staff is also well-trained to handle online examinations, placement of students, online admissions and surveillance. Staff is provided with the online library facilities for their teaching, learning and research activities.

Teachers are provided with the Nodal Computing Laboratory facility for their research, analysis work, and access to e-journals, etc. Video Conferencing facility is available through University Computer Centre also. University Computer Centre runs short term training programme in order to train non-teaching staff for the use of computers in the effective and efficient discharge of their duties.

During this period, Human Resource Development Centre was instituted in 2009 at the University Campus. The Centre has its own building, infrastructural and technical facilities along with a separate well furnished hostel. The UGC Human Resource Development Centre has organized 20 Orientation Courses, and 40 Refresher Courses which have been attended by 1614 teachers. Besides, 12 workshops relating to applications of computers in academics, research supervision, communication skills and practical workshops for Botany teachers have been organized during the last five years. 309 teachers of Punjabi University Patiala also attended these

courses and workshops and learned about the latest developments in teaching technologies, advancements in their subjects, collected new sources of information and research methods. Also 23 University "A" Class officers and 111 University "B" Class Officers have attended various workshops organized by the Human Resource Development Centre.

University Computer Centre also imparts training on various Office Automation Tools especially Punjabi Automation Tools. This centre also offers PGDCA Course wherein 5 seats are reserved for University Employees. This centre also organizes training programmes for the University staff about computer knowledge MS EXCEL for data analysis, MS word, internet access etc.

6.3.2 **What is the outcome of the review of various appraisal methods used by the University? List the important decisions.**

The University has adopted the PBAS –API scores as per VIth pay commission guidelines for the teachers. Every year the University compiles these scores department wise at IQAC. These API scores are useful to know the teachers' individual development and for promotions under CAS. These reports are analyzed and used by a committee under the Chairmanship of Dean Academic Affairs for screening the Assistant Professors to be placed in the next stage and by the selection committee members for promotions to the post of Associate Professors or Professor as the case may be. The involvement of the teachers for carrying out the duties assigned to them by the University from time to time are taken into account by the University while taking decisions on their promotions.

There is an in-built mechanism for appraisal of teachers in the form of papers presented at the various seminars/conferences & the papers published in the State/National/International Journals of repute. The Management keeps in view their participations in Seminars/ Conferences etc while processing their cases for grant of permission to go abroad and during their promotion to next higher cadre. Their work is also assessed by the outside experts on this count. Performance of the teacher is also reflected in the annual reports of the university.

6.3.3 **What are the welfare schemes available for teaching and non-teaching staff? What percentage of staff has benefitted from these schemes in the last four years? Give details.**

The University provides its staffers with a number of welfare schemes which benefit not only its employees, but their families as well. The schemes cater to some very important aspects of human life like education, finance, health care, transport, security, child care and recreation.

The following are the Welfare Schemes available for Teaching and Non-teaching staff:

- on-campus Senior Secondary School provides affordable education to the children of a large number of University Employees

- Bhai Ghanaiya Health Centre is well-equipped to cater to all general and emergency medical services with a 24X7 Ambulance facility. Besides, Physiotherapy Unit has been actively involved in providing services to the employees and their families

- highly subsidized transport facility to employees and their school going children

- a Group Insurance Scheme

- housing loan scheme

- wheat loan, cycle loan and free Uniform for class-C staff

- holiday homes at Andretta, Shimla, and Dehra Dun provide an ambient atmosphere in the lap of nature for relaxation and rejuvenation at reasonable rates

- provision for Maternity and Paternity Leave, Medical Allowance, House Rent Allowance, Concession in fee for the wards of University Employees, Residential Facility on the Campus, Crèche for children of University Employee and many more

- faculty club

6.3.4 What are the measures taken by the University for attracting and retaining eminent faculty?

- The University has Life Fellowship Scheme for attracting and retaining eminent faculty. The University has honoured a number of eminent personalities to date. A few of them are Dr. Dalip Kaur Tiwana, Dr. H.K. Manmohan Singh, Dr. S.S. Dhillon, Dr. Harjeet Singh Gill and Dr. G.S. Grewal.

- The University also offers free accommodation and other monetary benefits for attracting and retaining eminent faculty.

6.3.5 Has the University conducted a gender audit during the last four years? If yes, mention a few salient findings.

Yes. The average percentage of the female is about 50% in Punjabi University Campus. The average percentage of the female in the Engineering streams is about 34 %. Less percentage in Engineering is due to the fact that female generally do not opt for Mechanical Engineering and Civil Engineering branches. It has been observed

that the percentage of girls from rural areas is less. Because of this, many Regional Centres and Neighbourhood Campuses have been opened by the University in rural/ remote areas.

6.3.6   Does the University conduct any gender sensitization programs for its faculty?

Yes, the University conducts gender sensitization programs for its faculty.

Women Studies Centre at Punjabi University Patiala is constantly making efforts in this direction. It has organized 4 International Conferences pertaining to the issues of gender mainstreaming/non – violence/ women development. It has also organized more than 20 workshops and field activities till date for University/ College teachers, hostel wardens, prefects and security personnel of the University on issues like gender sensitization, human rights, legal literacy for women, stress management, capacity building for women managers in higher education, HIV/AIDS awareness, Health Protective Behaviours, Surrogacy, secularism, women and ageing, women workers in unorganized sector.

6.3.7   What is the impact of the University's Human Resource Development Centre Programmes in enhancing the competencies of the University faculty?

The University's Academic Staff College (which is now renamed as Human Resource Development Centre) has organized 20 Orientation Courses, and 40 Refresher Courses which have been attended by 1614 teachers. 12 workshops relating to applications of computers in academics, research supervision, communication skills for University teachers and practical workshops for Botany teachers have been organized during the last five years. 309 teachers of Punjabi University, Patiala have attended these courses and workshops and learned about the latest developments in teaching technologies advancements in different subjects, sources of information and research methods.

6.4   FINANCIAL MANAGEMENT AND RESOURCE MOBILIZATION

6.4.1   What is the Institutional mechanism available to monitor the effective and efficient use of financial resources?

- All the financial matters are discussed in the Finance Committee whose constitution is as under:
  - The Vice-Chancellor as Chairman
  - Finance Secretary of the state Govt. or his nominee not below the rank of   Deputy Secretary
  - Education Secretary to the state Government
  - Dean Academic affairs

- o Two members elected by the Senate
- o Two members elected by the Syndicate.

- After Formalizing the Budget, Expenditure and Income in the above committee, the details are approved by the Syndicate of the University.

- For the unforeseen or the contingent expenditure, the decision is taken by the Registrar in consultation with the Finance officer of the University.

- The Registrar maintains the accounts of the University. Here, the Registrar means Finance Officer/Deputy Registrar/ Assistant registrar to whom the duty to maintain accounts of the University is entrusted by the Syndicate.

- The accounts of the University are maintained for the financial year i.e. April 1st to March 31 of the following year.

- All funds and the money belonging to the University is kept in the name of Punjabi University, in the Banks.

All the accounts are maintained primarily under the following Heads:
- o Current Account
- o Provident Fund
- o Gratuity Fund
- o Special Endowment Trusts
- o General Endowment Trusts

No transfer is made from the above last four accounts to any other account without the sanction of the Syndicate.

- All the property belonging to the University is held in the name of the University. For the purpose of drawing interest upon such Government stock or Government Promissory Notes , as held in the name of the University, the Registrar is authorized to take necessary action, but transferring any part of such Government Stock or Government Promissory Notes, the Vice-Chancellor and Registrar are jointly authorized to do all acts as are necessary.

- The Vice-Chancellor, subject to the control of the Syndicate, orders that un-invested balance at credit of any particular trust or trusts or of any other University Account for investment in the Government Securities or Fixed Deposits for the benefits of the accounts concerned.

- The Vice-chancellor has been authorized to sanction allocation/reallocation and re-appropriation under various

heads/sub-heads according to the priorities fixed by him within the resources available with the University, subject to the following conditions:

- o No re-appropriation is made that involves undertaking a recurring liability i.e. a liability that extends beyond the financial year in question.
- o No re-appropriation is made out of the committed expenditure, i.e. salary, D.A. Provident Fund, House Rent etc.
- o No re-appropriation is made out of the non-recurring amount to an unapproved project.

- All the expenditure is made on the basis of the prior approval of the appropriate authority (Head of the Department/ Registrar or the Vice-Chancellor) following the stipulated procedure involving tendering/quotations or spot purchase through the duly approved committees out of the budget sanctioned.
- All the accounts are pre-audited and no expenditure is made without the approval of the Government Audit.
- The Heads of the Departments are advised to make restraints in expenditure and use the money judiciously.
- The Finance officer verifies the utilization purpose and need before giving approval for the expenditure.
- Necessary decisions are made by the Finance officer and Registrar to maintain self-restraint in expenditure and ensure the appropriate & prudent use of the financial resources available.

6.4.2   Does the University have a mechanism for Internal and external audit? Give details.

Yes, the University has a mechanism for external audit.

- The external audit in the University is done on day to day basis by DCLA deputed by the Punjab State Government.
- At the end of the Financial Year the external audit is also done by the CAG, India.

6.4.3   Are the Institution's accounts audited regularly? Have there been any major objections, if so, how are they addressed.

Yes, the Institution's accounts are audited regularly.

Whenever any objections are raised by the audit team, these are addressed by the University immediately by giving appropriate reply. However, there have not been any major audit objections during the last five years.

6.4.4   Provide the audited income and expenditure statement of the academic and administrative activities of the last four years.

Income-Expenditure Statement

Income Head	2011-12	2012-13	2013-14	2014-15
Initial Balance Current Account	38001790	148476703	155636000	47461414
Income	2365853649	2642985981	3133861993	3324155600
Balance	2717107655	2791462684	3289497993	3371617014
Expenditure	2644871216	2942448888	3242036579	3644136875
Grand Total (Income/ Loss)	(+)72236439	(-)150986204	(+)47461414	(-)272519861

Details of Income

	Sources of Income		2011-12	2012-13	2013-14	2014-15
	Initial Balance		38001790	148476703	155636000	47461414
PART A						
1.	**FEES**					
	(i)	Examination Fee	428167534	406583678	635912500	479534700
	(ii)	Tuition Fee	451306404	460353674	480028105	520829000
	(iii)	Donation & Securities of Students	423210373	432775801	453493920	463000000
	(iv)	Fee of Distance Education Courses	93269375	88286513	149444570	463000000
	(v)	Interest on Fee, deposited amount etc. (Registration, Certificate, Rechecking, Revaluation etc.)	107414650	107663317	107002151	167173000
2.	Miscellaneous (Purchasing of Security Forms, Income from Electricity, Water etc.)		225571381	161618506	313491611	230130800
3.	Amount received from the employees on the accounts of Loans or advances		25561633	19769285	20632345	55108000
4.	Income from Grants					
	(i)	Punjab Government	414821000	824464000	559542000	750864000
	(ii)	Centre Government	-	1013575	141638000	5383800
	(iii)	Centre/State grant for changes in NSS account	-	-	-	13775000
	(iv)	Donation Amount	300000	290000	-	-
	(v)	Received amount as term Loan from banks for construction of Engg. colleges	-	-	79912522	-
5.	UGC (Development Schemes)		96980689	66898923	138147084	113184000
	Total (Part A)		**2,26,66,03,039**	**2569717272**	**3079244808**	**2922744200**
PART B						
1.	Grants for Schemes and Scholarships (Researches schemes-with financial help of Teachers)		7,35,18,658	58183481	54617185	62260000
2.	Scholarships and stipend		25731952	15085231	-	68200
	Total (Part B)		**99250610**	**73268712**	**54617185**	**62260000**
	GRAND TOTAL (A+B)		**2717107655**	**2791462684**	**3289497993**	**2985004200**

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Details of Expenditure

	Heads of Expenditure		Year			
			2011-12	2012-13	2013-14	2014-15
	PART A					
1.	**General Administration**					
	(i)	Expenditure of Salary	257380768	395146625	318057680	417192360
	(ii)	Other Expenditure	115500533	123401355	149521382	117878900
2.	**University Teaching**					
	(i)	Teaching and Research Deptt.	922160291	1091110619	1344768748	1983962300
	(ii)	Distance Education Deptt.	76999092	116803126	135759610	150397930
	(iii)	Library	47979769	57555039	66731310	85214030
	(iv)	Maintenance Department	489438631	544059445	754230460	833808730
	(v)	Improvement in Education	28630809	35280463	51265110	54139000
	(vi)	Constitute Colleges	0	0	103742230	201729370
	(vii)	Development of Punjabi Language	83000000	80000000	84000000	85000000
	(viii)	Pension Fund	0	0	0	300000000
	Total (Part A)		**2021089893**	**2443356672**	**3008076530**	**4229322620**
	PART B					
1.	Research Schemes		230123561	60112650	172200000	63350000
2.	Other Schemes		--	-	-	-
3.	Scholarships and Stipend		88105	3398915	1216455	-
	Total (Part B)		**230211666**	**63511565**	**173416455**	**63350000**
	PART C					
1.	Change in Building Fund Account		-		4300000	-
2.	Amount of Loan/Budgetary system for Second Funds		310369657	341980651	-	-
3.	Loan repayment to bank for the expenditure of UCoE, Pbi. Uni.PTA		30000000	40000000	46000000	52000000
4.	Loan repayment to bank for the expenditure of YCoE, Talwandi Saboo		30000000	20000000	-	-
5.	Loan repayment to bank for the expenditure of College of Engg., Rajpura		12800000	12800000	12800000	12600000
6.	Return of Bank loan for the expenditure of Management and Tech. Bhawan		10400000	20800000	20800000	20800000
	Total (Part C)		393569657	435580651	83900000	85400000
	Grand Total (Part A+B+C)		2644871216	2942448888	3265392985	4378072620
	Profit/Loss		(+)7223649	(-)150986204	(-)633799221	(-)1573642820

6.4.5   Narrate the efforts taken by the University for Resource Mobilization.

Dean, Resource Mobilization and Advancement of the University makes efforts to raise the funds from the NRIs, Industries, Agencies, etc. by persuading them to promote the educational cause. The officials from the University also visit various countries every year for resource mobilization. The funds are raised on the following accounts:

- for the promotion of Research
- for helping the poor students especially from the rural background
- for construction and renovation of buildings.

The University departments raise funds and arrange sponsorships from various sources like Industries, Banks, and other such organization to organize conferences/Seminars/Workshops.

6.4.6   Is there any provision for the University to create a corpus fund? if yes give details.

There used to be a corpus fund called the "Sink fund", which continued till June 2012. But, this is no more maintained now because of the scarcity of funds.

6.5   INTERNAL QUALITY ASSURANCE SYSTEM

Internal Quality Assurance is maintained by Internal Quality Assurance Cell (IQAC). The day to day activities of IQAC are managed by Director IQAC. The following committee under the chairmanship of Vice-Chancellor (VC) is constituted.

Chairman: Vice Chancellor

Director: Dr. Manjeet Singh Patterh, Department of Electronics and Commun. Engg.

Members
1. Dean Academic Affairs
2. Registrar
3. Additional Dean Research
4. Director, Planning and Monitoring
5. Dean College Development Council
6. Dean Students' Welfare
7. Director, UGC-HRDC
8. Director, University Computer Centre
9. Dr. Charanjeet Singh, Department of Electronics and Commun. Engg.
10. Dr. N S Atri, Department of Botany

11. Dr. Raman K Verma, Dept of Chemistry.
12. Dr. N.K. Dogra, Department of Political Science
13. Dr. Meenakshi Sharma, Department of Education

Outside Experts

1. Dr. Raunki Ram (Punjab University, Chandigarh)
2. Dr. Satinder Singh, Ex-Pro Vice-Chancellor (GNDU, Amritsar)

Since the higher officials of University i.e., Vice Chancellor, Registrar, Dean Academic Affairs, Dean Research, Dean Students Welfare, Director Planning and Monitoring are the members of IQAC and are the major decision makers of the Academic and Administrative policies of the University, therefore, IQAC is deeply involved in the key activities of the University for improving the Academic and Administrative standards of the University.

6.5.1   Does the university conduct an academic audit of its departments? If yes, give details.

Yes, the university conducts an academic audit of its departments.

It is done by the committees constituted by the Vice-Chancellor/ Chairman (IQAC) from time to time.

This academic audit is based on

- Annual Reports of the Departments

- Annual Quality Assurance Reports

- Feedback from the various stake holders

- Visits to the departments

- Presentation of their achievements by the departments.

6.5.2   Based on the recommendations of the academic audit, what specific measures have been taken by the university to improve teaching, learning& evaluation?

Based on the recommendations of the Academic audit, many measures have been taken by the University to improve the teaching, learning and evaluation. A few of them are listed below in brief:

- Recruitment of more faculty and staff.

- Promotion of research and academic activities. For details please see 6.3.1.

- Partial automation of Evaluation System: several reforms have been made by the University in the examination cell and many processes have been computerized/automated.

- Allocation of more funds for strengthening the existing labs and establishing the new labs has been recommended.

- Concept of smart classrooms, use of teaching aids and ICT have been encouraged and funds on need basis have been provided to the departments.

- Re-structuring of the University College of Engineering into five departments for better governance, monitoring of academic activities.

- Further strengthening of the existing sports facilities and creation of the new sports facilities. Special incentives to outstanding sports personsevery year.

- Extension of existing hostels to accommodate more students and construction of new hostels.

- Online admission system.

- Decentralization of the Examination and Evaluation System.

- Extension of a large number of buildings.

- Construction of new classroom block and new buildings.

- Many new programmes and departments have been started by the University (for details please refer to 6.2.1).

6.5.3   Is there a central body within the university to continuously review the teaching learning process? Give details of its structure, methodologies of operations and outcome?

Yes, the University has Academic Council to continuously review the teaching learning process.

The Academic Council is the academic body of the University and consists of the following members namely:

- The Vice-Chancellor as Chairman

- Director of Public Instruction, Punjab

- Dean, Academic Affairs, Dean, College Development Council, Dean of Students, Dean, Research.

- Dean of Faculties

- Ten Chairmen of Boards of studies representing the University Department/ Colleges other than the ones which are represented by the Deans of Faculties, by rotation according to age.

- Seven Professors from the University Teaching Departments, Research Departments, Department of Correspondence Course, by rotation according to age.

- Eight Principals of affiliated colleges who are not Deans of Faculties or Chairmen of Boards of Studies (four from Govt.

Colleges and four from non-Govt. Colleges) by rotation according to age.

- Four Associate Professors and four Assistant Professors from University Teaching Departments, Research Departments, Department of Correspondence Courses, by rotation according to age.

- Eight Assistant Professors from affiliated colleges (except the Medical, Dental, Ayurvedic and Engineering Colleges) (Four from Government Colleges and Four from Non- Government Colleges) having ten years experience of teaching degree classes, by rotation according to age.

- Two teachers from affiliated professional colleges (one from Medical, Dental, Ayurvedic Colleges and one from Engineering Colleges having ten years' teaching experience, by rotation according to age. Provided that such teacher should not be below the cadre of an Assistant Professor.

- Incharge University Library.

- Four persons being specialists in different branches of knowledge and not being employees of the University, Co-opted by the Academic Council.

The Academic Council reviews the teaching learning process through the following bodies/committees :

- Syndicate

- Internal Quality Assurance Cell

- Faculties

- Board of Studies

- Administrative Committee of the Department

- Committees Constituted by the Vice Chancellor time to time for the above purpose

**Outcomes*:-*

Some of the outcomes are listed in 6.2.1 and 6.5.2 and others are given below:

- Keeping the regional, national and global needs in view, many new departments have been established and many new programmes have been started. A few of these are Department of Tourism, Hospitality and Hotel Management, B.Tech (Civil Engg), M.Tech. in Mechanical Engg., Electronics and Communication Engg., and Computer Engineering, Certificate Course in Guru Granth Sahib Studies etc. The details are given in 6.2.1.

- University College of Engineering (UCoE) is restructured into five independent departments for better academic and administrative control.

- Recruitment of more faculty and staff.

- Promotion of research and academic activities.

- Setting up of Sophisticated Instruments Centre.

- Setting up of Human Resource Development Centre.

- Centre for Census Studies and Research

6.5.4 How has IQAC contributed to institutionalizing quality assurance strategies and processes?

IQAC encourages the departmental ACDs:-
- to carry out internal Academic and Administrative performance review for assuring better management and quality teaching to the students.

- to assign faculty councilor to each class and to make sure that the faculty councilor plays his/her part efficiently.

- to ensure continuous evaluation of the students

IQAC also arranges periodic meetings of the Heads (faculty wise, sometimes with a few selected Heads) with VC and other higher officials for continuous review, and improvement in the overall functioning of the University.

6.5.5 How many decisions of the IQAC have been placed before the statutory authorities of the university for implementation?

The following decisions/suggestions of IQAC have been placed before the statutory authorities of the University for implementation. A few of them are mentioned below:
- restructuring of University College of Engineering into five departments for better governance and monitoring of academic and administrative activities

- establishment of Department of Tourism, Hospitality and Hotel Management

- starting of B.Tech (Civil) Programme

- starting of Six Year Integrated Engineering-Management program

- starting of M.Tech Part-time and Regular in Mechanical Engg., Electronics & Communication Engg., and Computer Engineering

- starting of Certificate Course in Guru Granth Sahib Studies

- establishment of Centre for Diaspora Studies

- establishment of Women Studies Centre

- setting up of Waste Water treatment Plant

- setting up of Baba Farid Centre for Sufi Studies

- starting of MBA and MCA in College of Engg. and Management at Rampuraphul

- setting up of 11 Constituent colleges in remote areas.

For more details on new departments and programmes please refer 6.2.1

6.5.6 Does the IQAC have external members on its committees? If so, mentionany significant contribution made by such members.

Yes, IQAC has two external members on its committee. As members of the committee they have been participating in the discussions on various issues.All the decisions have been taken collectively during the meetings of IQAC. These external members have been contributing equally in the decision making.

6.5.7 Has the IQAC conducted any study on the incremental academic growth of students from disadvantaged sections of society?

The IQAC has not conducted any study on the incremental academic growth of the students from disadvantaged sections of society. But it has analysed the variation in number of students admitted in the University from the disadvantaged sections of the society. The details are mentioned below.

The percentage of incremental strength growth of the students from SC and OBC Sections of Society during the sessions year 2008-09 to 2013-14 is given below:

(A) % of Incremental strength growth of SC & OBC is shown in Table 1

Table -1

Year	Category Student			
	SC	OBC	% of incremental academic growth (SC students)	% of incremental academic growth (OBC students)
2008-09	1432	674	-	-
2009-10	1501	680	4.59	0.88
2010-11	1824	797	17.7	14.68
2011-12	2083	907	12.43	12.13
2012-13	2587	1220	19.48	25.46
2013-14	3807	1976	32.04	38.25

The above incremental growth shown in Table-1 is based on the actual numberof students admitted. Below in Table-2 the incremental strength growth of SC and OBC categories is given in terms of percentage with respect to total number of students admitted.

Incremental Growth

University Main Campus Table (2)

Session	% of SC students admitted	% of OBC students admitted
2008-09	13.59%	3.87%
2009-10	13.72%	3.76%
2010-11	15.45%	3.87%
2011-12	15.55%	4.55%
2012-13	15.92%	4.08%
2013-14	16.20%	4.28%

Table-2 indicates the percentage of SC and OBC students admitted in main campus during the academic sessions from 2008-2009 to 2013-2014.

In case of SC, as we move from the session 2008-09 to session 2009-10 there is negligible increase in the percentage of SC Students. But in the session 2010-11 it has increased to 15.45% which is an increase of 1.86% as compared to session 2008-09. As we move from session 2010-11 to session 2013-14, the increase in the percentage of SC is negligible. The actual reservation as per university policy is 25% for SC/ST students. The low percentage on the main campus is mainly because students prefer colleges near to their place of residence.

In case of OBC students also it can be observed that there is a slight change in percentage of as we move form 2008-09 to session 2013-2014.

6.5.8 **What policies are in place for the periodic review of administrative and academic departments, subject areas, research centres, etc.?**

The Senate, Syndicate, Academic Council and other Statutory and Standing Committee are responsible for the periodic reviewof administrative and academic departments, subject areas, research centres, etc.

In the case of Teaching and Research Departments, it is carried out through :-

- annual reports of the departments

- feedback of the Administrative Committee of the Departments

- feedback from the faculty, non-teaching staff, students, Alumni, and other stake holders

- visits to the departments by the committees constituted by Vice-Chancellor/IQAC from time to time

- presentations by the heads of departments on the progress and achievements of their respective departments and their future plans

- meetings of heads of departments, Dean Academic Affairs, Dean Research, Director Planning and Monitoring and other officials with the Vice-Chancellor and during the meetings of IQAC

In the case of Administrative Departments/Sections, it is carried out through

- visits to the administrative departments by the committees constituted by Vice-Chancellor/IQAC from time to time

- feedback from the staff and other stake holders

- meetings of Controller Exams, Finance Officer, Director Planning and Monitoring, Director Human Resource Development Centre and other officials with the Vice-Chancellor and during the meetings of IQAC.

CRITERION: VII
INNOVATIONS AND BEST PRACTICES

Criterion-VII
Innovations and Best Practices

7.1.   **ENVIRONMENT CONSCIOUSNESS**

Punjabi University, Patiala has taken various measures for promoting environment consciousness on the campus amongst students, staff members and residents. An environment society named Punjabi University Environment Society (PUES) was established on 5th June 2009 which has been trying its level best to create environment consciousness by organizing different kinds of environment related activities. PUES has been celebrating Biodiversity Day, Environment Day and Earth Day every year. Besides this, during the past five years, a few Refresher Courses on the subject of environment have been organized by the Department of Zoology and Environmental Sciences of the University for College and University teachers under the banner of Human Resource Development Centre (HRDC). Youth Welfare Department of the University has been regularly organizing street plays (Nukkad Nataks) on environment related themes to raise environment consciousness among the common masses. Apart from these, many motivational programmes have also been conducted regularly by the NSS Department and Department of Zoology and Environmental Sciences, some of them in collaboration with the Punjab State Council for Science and Technology, on the University campus for students from different parts of Punjab for creating awareness regarding environmental issues. Leading Environmentalists and prominent scientists of the state were invited from time to time to interact with young minds to instil environment consciousness in them. Quiz, poster making competitions and other brain storming activities have been organized on environmental issues during these programmes.

7.1.1.   **Does the University conduct Green Audit of its campus?**

Yes. A full-fledged Horticulture wing is being maintained by the University with one SDO Horticulture, two Junior Engineers and a large number of gardeners to look after the overall greenery, maintenance of lawns and need based seasonal plantation on the campus. A Campus Welfare Committee and Punjabi University, Environmental Society constituted by the University work in liason with the Executive Engineer and S.D.O. Horticulture for maintaining the eco-friendly environment on the campus.

7.1.2. **What are the initiatives taken by the University to make the campus eco-friendly?**

The initiatives taken by the University to make the campus eco-friendly are being mentioned as under:

- **Energy Conservation:** With an aim to use solar radiations, the University has installed solar panels for street light in collaboration with Punjab Energy Development Agency (PEDA) for energy saving purpose. During summer months, the use of Air Conditioners is restricted by the orders of the Registrar, to save power. The office of the Executive Engineer ensures the compliance of the orders by regular monitoring. Besides, the Registrar office also issues circular to Heads of all the Departments to ensure switching off the fans and lights in the class rooms and laboratories after the classes are over and also in the offices and teachers' rooms when these are not being used.

- **Water Management**: On the campus, treated sewage water has been effectively put to use for watering the lawns and vegetation with a view to save potable water for human consumption. In order to ensure regular water supply on the campus during summer months, every year the University issues a directive prohibiting the use of water for watering lawns and washing of vehicles. As part of the administrative step taken to maintain the proper functioning of the water supply system, water supply remains cut off daily from 11.00 p.m to 4.00 a.m.

- **Efforts for Carbon Neutrality**: With a view to reduce the carbon foot- print and focus on the carbon neutrality, regular effort is made by Horticulture, NSS and Botany Department to increase the green cover. Besides this, the stubble generated through the sweeping of campus roads, lawns and kitchen gardens, instead of burning, is being collected regularly by the University sanitation wing for proper disposal. Adding to the efforts of reducing carbon footprint, Botany department is preparing vermin -compost from the fallen leaves, twigs and other refuse generated in the Botanical Garden and Plant conservatory, on daily basis.

- **Plantation:** All plantation work on the campus is being undertaken by the Horticulture wing of the University. Hundreds of plants are being successfully nurtured by this wing on the main campus, Neighbourhood campuses, Regional Centres and Constituent Colleges. Lush green lawns and flowery and shady trees along roadsides are testimony to the continuous efforts being made in this regard by the horticulture staff. All the lawns have seasonal flower beds in

which seasonal flowers are planted regularly which add to the beauty of the campus. Every year in the month of December/ January, Horticulture wing organizes a *Chrysanthemum* (GULDOUDI) show in which besides Botany Department, floriculturists from outside the campus also participate. Punjabi University Environment Society and N.S.S. Department have also been undertaking plantation drive on the campus during Biodiversity and Environment Day celebrations. Various N.S.S Camps have been especially organized for this purpose. During the past four years Botany Department has done plantation of more than 200 plants with a view to conserve them. These include some of the rare and threatened plants, medicinal plants, religious plants and fruit plants. In recognition of the significant contribution of Botany Department in this regard, the Ministry of Environment and Forests, Government of India has sanctioned a grant of Rs. 4,00,000 to the Department for the up-gradation of infrastructure of the Botanic Garden including the establishment of Seed Bank and Tissue Culture Lab to facilitate conservation of plant germplasm.

- **Management of Hazardous Waste**: The University authorities recently installed a modern sewage treatment plant to treat the sewage water which is now being used for watering lawns on the campus. For scrap disposal and management, a separate contract has been given to a local contractor (Sh. Mohinder Pal Singh, Shaheed Udham Singh Nagar, Patiala). The University has assigned the duty of monitoring the scrap disposal to Executive Engineer of the University as the Nodal officer.

  Biomedical waste is being disposed as per the norms of Pollution Control Board, Punjab. MOU has been signed in this regard with Medicare Environmental Management Pvt. Ltd. Ludhiana for lifting the biomedical waste of Health Centre, Department of Zoology and Environmental Science, Department of Pharmaceutical Sciences and Drug Research, Department of Forensic Science and Department of Human Genetics and Department of Biotechnology, on daily basis. Medical Officer of the University Health Centre has been appointed as the Nodal Officer in this regard.

- **e-waste Management:** As per the e- waste Management and Handling rules 2011 under the provision of the Environment (Protection) act 1986, for e-waste management, the University has signed a rate contract with D. M. Re-cyclers, Meerut, U.P. For monitoring the disposal of e-waste on the campus, as per the norms. The Director, University Computer Centre is acting as the Nodal officer.

- **Smoke Free, Clean, Healthy, Eco-friendly Environment**: Orders have been issued by the Registrar, Punjabi University to restrict the use of polythene bags on the campus. Besides this, the University has strictly banned smoking and declared the campus a non-smoking area since 2008. PUES and NSS department of the University have installed specific dustbins on the entire campus for waste collection and disposal. N.S.S. Department has been regularly holding camps for creating awareness about the importance of cleanliness.

Punjabi University Campus has created an eco-friendly environment for its inhabitants by creating clean, green and smoke free environment. To deal with the menace of stray dogs, dog sterilization drive was launched during 2014-2015, which has given a lot of relief to the campus residents. Recently fogging machine was also been purchased by the University to deal with the problem of mosquitoes on the campus. The University is privileged to have more than 100 peacocks and peahens and a variety of rare species of birds and butterflies which add to the beauty of the campus.

7.2. INNOVATIONS

7.2.1. Give details of innovations introduced during the last four years which have created a positive impact on the functioning of the University.

Innovations introduced during the last four years which have created a positive impact on the functioning of the university are listed below:-

- Development of **Gurmukhi to Shahmukhi and Devnagri to Punjabi transliteration software.**

- Website for **online teaching of Punjabi and Gurmat Sangeet**.

- Development of first Punjabi Spell checker entitled **"Development of Punjabi Morphological Analyser and Generator."**

- Keeping in view the mandate of the University to develop and propagate Punjabi Language, culture and Punjabi Studies, Centre for Diaspora studies, World Punjabi Centre, Centre for Teaching of Punjabi as a Foreign Language (CTPFL) and Advanced Centre for Technical Development of Punjabi Language, Literature and Culture (ACTDPLC) have been established.

- State-of-art modern Sports facilities have been created during the past years and innovative approaches adopted by the

trained coaches have resulted in producing a good number of National and International level sports persons and the University has won the coveted **MAKA trophy** seven times during the last eight years.

- Establishment of Indigenous laboratory by the Physics Department for **prepration of Silicon Sheets** by Capillary Action Shaping Technique (CAST) for solar cell applications through liberal DST funding.

- Engagement of students in OPDs by the Physiotherapy Department so as to make the programme practically intensive.

- **Reaching the unreachable through expansion of Regional Centres**, Neighbourhood Campuses and Constituent Colleges by starting job oriented programmes.

- Organization of regular innovative programmes including workshops and practical training in Human Resource Development Centre and Sophisticated Scientific Instrumentation Centre for research scholars of the University.

- Innovative programmes of the Department of Economics especially on Rural students and Farmers' suicides are worth mentioning, the results of which have been used by Punjab Government in framing the Policy document entitled "Rejuvenation of Punjab Economy: A policy Document."

- Organization of workshops on Soft skills and Communication skills for needy students in Engineering and Management departments of the University for overall development of their personality.

- Introduction of transparent **online admission process** for different programmes in the University.

- **Digitization of Internationally recognized Herbarium (PUN)** by the Botany Department so as to make it available online for consultation and authentication of the Botanical material.

- **Introduction of some automations/online facilities** to the students by the Examination Branch.

- **Launching of Punjabipedia**, the first online tool of primary and secondary source material for promoting Punjabi in its entirety so as to make its presence felt all around the globe.

- Apart from engaging the youth in cultural activities, Punjabi University Youth Welfare Department has started a unique innovative programme named "**Vidyarthi Chetna Lehar**" under which Kavi Darbars, Street Plays, Mushairas, etc. have been organized on socially relevant issues. Besides this, Inter-Cultural programmes with foreign students, is another innovation of the Youth Welfare Department. An innovative

programme "**Rainbow**"- fusion of Punjabi and South Asian Folk Instruments- was also developed by the Youth Welfare Department along with **Mangalkamna** (on every 1st Tuesday of every month) which serve as a platform for introduction and interaction of new artists with celebreties. As a consequence of the innovative efforts of the Director Youth Welfare and the associated staff, the University students have brought laurels to the University by winning 12 Gold Medals, 12 Silver Medals and 6 Bronze Medals in various competitions organized at the National Level by the Association of Indian Universities (AIU) in National Inter-university Youth Festivals during the years 2008-2009 to 2014-2015.

- Publication Bureau of the University has undertaken the task of **translation of world classics and works of Nobel Laureates into Punjabi** so as to make these available in their mother tongue to the common Punjabi readers. Similarly **Punjabi Mahan Kosh** has been translated into English for consultation by the non Punjabi readers. As a part of this resource generation programme 12 subject dictionaries have been published in Punjabi by the Bureau.

- Initiation of **Video Conferencing facility by the University Computer Centre** for need based Lectures by distinguished persons and Ph.D. Viva - Voce Examination.

- Most of the faculty members of the Department of Distance Education have undergone training in the preparation of **Self Learning Material (SLM)** and development of e-content material and soft skills.

7.3. BEST PRACTICES

7.3.1. Give details of any two best practices which have contributed to better academic and administrative functioning of the University.

Two best practices which have contributed to best academic and administrative functioning of the University are:

A. Empowering the Youth

B. Service to the Society

A1   Title of the Practice: Empowering the Youth

A2   Objectives of the practice:

What are the objectives/intended outcomes of this "best practice" and what are the underlying principles or concepts of this practice (in about 100 words)?

The prime objective of this practice is to empower youth with education and multiple skills. For this, along with traditional courses the University has started a large number of job- oriented courses including Dress Designing and Tailoring, Cosmetology, Dietetics, Travel Management, Insurance and Banking, Industrial Chemistry, etc. To take the higher education to the door steps of the deprived sections of the society, Punjabi University has strengthened the infrastructural facilities in its already established Regional centres and Neighbourhood campuses. Besides these, 11 Constituent Colleges were opened in remote rural areas of the Malwa Region. In these institutions also, besides traditional courses, many job-oriented courses in Management and Computer Application have also been started.

- In its Yadwindra college of Engineering at Talwandi Sabo (Bathinda), the University is running a Golden Heart Scheme for rural meritorious wards of economically weaker section of the society. All the admitted meritorious students are provided free of cost education including hostel expenses, after matriculation.

- The Distance Education Department of the University has also been offering a number of job- oriented courses like B. Ed., M. Ed., Diploma in Journalism and Mass Communication, Library Science, Insurance Business, Forensic Science, etc. These courses have resulted in increased employability of the trained youth.

- The University has established Language Labs particularly at the centres where most of the students are from rural areas. Workshops on Soft Skills and Communication Skills are being organized on regular basis for such students. At Yadwindra College of Engineering, Talwandi Sabo a Language Lab has been established to improve communication skill of the rural students admitted to the College.

- The University Computer Centre, Human Resource Development Centre and Sophisticated Scientific Instrumentation Centre regularly organize practical workshops and short term courses for students,

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Research Scholars, Teachers and Administrative staff in skill development, handling and operation of scientific equipments and computer training for scientific and day to day work. The participants of these courses include teachers from other states also.

- The University has developed excellent Sports infra-structure, perhaps the best among all the universities in the country. A large number of students trained from the campus are excelling in the National and International Sports events. Because of the extra-ordinary distinction achieved by the Directorate of Sports, Punjabi University, Patiala has been declared as Centre of Excellence for Sports.

- The Advanced Centre for Development of Punjabi Language, Literature and Culture has developed a Gurumukhi to Shahmukhi (Persian) transliteration software (SANGAM), which is helping researchers in transliteration of Gurumukhi script to Shahmukhi script. Software has also been developed for conversion of Devnagri to Gurmukhi.

- A website for online teaching of Punjabi is yet another effort of the University to reach out to those who want to learn Punjabi through internet while sitting at their respective places. Machine translation tools for automatic translation from Punjabi to Hindi and vice-versa have also been developed, many copies of which have already been sold out in India and abroad.

- Besides this, the first Punjabi Spell checker, a Natural Language Processing lab and a software package entitled "Development of Punjabi Morphological Analyser and Genertator" has also been developed, a copy of which was bought by CDAC, Pune for Rs.1 lakh. The University also imparts education and on-line training in learning of Punjabi and Gurmat Sangeet and Guru Granth Sahib Studies.

- To facilitate the academic pursuits of students, there is a majestic AC library with Night Study Hall facility, on-line catalogue service, Internet Access Lab and RFID technology for issue/return of books. It remains open for 360 days in a year and is a hub of academic activity.

- Entrepreneural development program of the Management Department and Placement cell in the University are yet other institutional initiatives started by the university so as to help in career guidance and facilitate the placement of students.

A3   The Context:

(What were the contextual features or challenging issues that needed to be addressed in designing and implementing this practice)?

The basic context of the above practice is to empower our youth including women and deprived sections of the society with education, multiple skills and inculcate in them the spirit of self esteem, confidence and make them employable and resource in themselves.

The University's objective of establishing institutions of higher learning with applied courses in the remote rural areas of Malwa region of Punjab has started yielding results. A large number of rural students from the deprived sections of the society are getting enrolled and benefitted as they are getting professional degrees at their door steps with affordable expenditure.

Main challenge which the University is facing is to sustain the novel efforts with limited infrastructure for which lot of funds are required. However, the University is struggling to keep these recently created institutions afloat with its own meager resources.

A4   The Practice:

(Describe the practice and its uniqueness in the context of Indias' higher education. What were the constrains / limitations, if any, faced (in about 400 words)?

- The practice of reaching the unreachable by establishing institutions in the rural areas to provide affordable higher education at their door steps is unique in itself in the context of higher education in India. The Engineering College at Talwandi Sabo is admitting rural meritorious students on the basis of their social and economic backwardness. The University has started "Golden Heart Scheme" to fund their education by arranging funds through donations from Industry, Individuals, NRIs etc. The prime focus here is to invite community participation for helping the poor sections of the society in empowering their wards with technical education.

- Establishment of Women Studies Centre and its role in making women aware about their rights is yet another recent initiative of the University for the empowerment of the women folk.

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- IAS and Allied Services Study Centre of the University organizes regular coaching classes throughout the year to train the youth for competing in civil services, state services, banking services, judiciary, NET etc. A large number of trainees from this centre have made to All India Services and State Services and are contributing to the growth of the country in their own ways.

- Directorate of Sports, Punjabi University Patiala has produced a large number of National level and International level Sports persons who have won coveted Medals for the country/respective state in various National and International events organized in the past.

- The training imparted in soft skills and handling and usage of computers and sophisticated instruments in the University Computer Centre and Sophisticated Scientific Instrumentation Centre through innovative workshops and short term programmes organized by Human Resource Development Centre has resulted in strengthening the teaching, research and administrative acumen of the trained personnel.

A5   Evidence of Success:

(Provide evidence of success such as performance against tatgets and benchmarks, review results. What do these results indicate? Describe in 200 words).

- The best example of success is the award of **MAKA** trophy 7 times during the last 8 years to Punjabi University, Patiala by the President of India. In view of the exemplary contributions, Punjabi University has been declared as the Centre for Excellence in Sports.

- On an average, about 200 Ph.D. scholars are awarded degrees every year. Many of them have joined teaching profession and are contributing to the generation and dissemination of knowledge as a part of their professional commitment. Thus, they are engaged in Nation building through empowerment.

- Award of Excellence to Punjabi University, Publication Bureau in book production by Federation of Indian publishers for the years 2012, 2013 and 2014 stands testimony to the excellent efforts being put in by this Institution. It has been publishing about 100 new books and re-printing 20 books every year.

- The improved infrastructure from substantial external funding in the CAS, DSA, SAP, ASIST and FIST funded Departments has gone a long way in improving the academic functioning of the University. The regular training programs being conducted by Human Resource Development Centre, Computer Centre, and Sophisticated Instruments Centre are proving handy in the empowerment of teachers and scholars which is being reflected in the quality research with high impact factor being published in the journals of National and International repute. During the past four years, more than 5000 Research papers and over 345 books (191 original + 154 edited) have been published and 18 Patents have been granted.

- In view of the creditable standing of Youth Welfare Department of the University at the National level, Punjabi University, in February, 2013, was allocated South Asian Youth Festival by Association of Indian Universities (AIU) in which the University campus was transformed into a South Asian Village.

- The medals won by the students of Youth Welfare Department in various Zonal and National level youth festivals is another evidence of success. In all, students won 12 Gold Medals, 12 Silver Medals and 6 Bronze Medals in various Youth competitions organized at the National level and 18 Gold Medals, 24 Silver Medals and 31 Bronze Medals in the competitions organized at the North Zone level by the Association of Indian Universities (AIU) in Inter University Youth Festivals during the years 2008-2009 to 2014-2015. Punjabi University though being a university with a rural focus, the students stood first in Western Group Song and Western Solo Song during the session 2012-2013 and won the Gold Medals during these National level youth competitions.

- Recently, the Ministry of Human Resource Development has chosen Punjabi University's Media Centre for allocation of an independent DTH Channel and the UGC has declared it as the Nodal Centre for the States of Punjab, Haryana, Himachal Pradesh and Union Territory of Chandigarh to produce educational audio visual and multimedia programmes for 'beyond the classroom' global community of students. This is another evidence of success.

A6 Problems Encountered and Resources Required:
(Please identify the problems encountered and resources required to implement the practice - in about 150 words)

- The basic constraints remain the paucity of funds to sustain and strengthen the already established infra-structure so as to meet the aspirations and emerging needs of the stakeholders.

- There is paucity of specialized teaching faculty in some of the Departments, Neighbourhood campuses, Regional Centres and Constituent Colleges. Existing teaching staff has to put in extra hours of teaching and research to meet the requirements of the students and Research scholars. This needs to be addressed with utmost urgency.

- There is a need for updating the class room and laboratory facilities on the modern lines so as to strengthen teaching and research.

- There is also a need to strengthen Entrepreneurship & Skill Development Cell at the University level. This will provide opportunity to the students to sharpen their mental faculties and increase their employability.

- The seating capacity of the Reading Hall in the Library needs to be increased so as to cater to the increasing student strength opting for study in the Library Reading Hall.

- The University needs to catch up with times to compete with the Private Universities and Foreign Institutions and this is not possible without resources. For this, the University needs to work to increase its resources including funding from State Government and Central Agencies. Only regular budgetary allocations for sustenance of the established institutions can help the University to reach the desired results in its endeavour so far as the long term perspective of the earmarked objective of empowering the youth is concerned.

B1 Title of the Second Best Practice : Service to the Society

B2 Objective of Practice:

(What are the objectives/intended outcomes of this "best practice" and what are the underlying principles or concepts of this practice - in about 100 words)?

Various University Departments have made service to the society as the integral part of their curriculum. In line with the preamble of the university "Vidya Vichari Tan

Parupkari", the main objective in this regard has been to provide direct relief to the suffering people through treatment (Physiotherapy Department), Counselling (Psychology Department, Women Studies Centre and Social Work Department) and to make the society aware about the ill effects of the social evils in the society through enactment of stage shows, street plays (nukad nataks) and other such stress buster programs like Mangalkamna, Sunad (Theatre & T.V. Department, Youth Welfare Deptt. and Gurmat Sangeet Department). The involvement of students with trained faculty helps the stakeholders to meet the cutting edge challenges and increase the students' employability and their ability to serve the society with love and compassion. These are basically capacity building programmes to enhance the skill of the students through institutional efforts to serve the common masses.

B3   The Context:

(What were the contextual features or challenging issues that needed to be addressed in designing and implementing this practice)?

The context has been learning through service of mankind by helping them to tackle psychological and social problems through counselling; providing on the spot treatment to the people suffering from age related/ work related problems like low back pain, neck pain, frozen shoulder, knee osteoarthritis, neurological disorders, etc. through physiotherapy and also to generate awareness against drug addiction, AIDS and social evils like dowry and female foeticide through enactment of plays, nukad nataks at their door steps.

B4   The Practice:

(Describe the practice and its uniqueness in the context of Indias' higher education. what were the constraints / limitations, if any, faced (in about 400 words)?

- To meet the objectives, the department of Physiotherapy is running 3 specialized OPDs within the University (General, Neurological and Sports). Besides these, Geriatric OPD in collaboration with Senior Citizen Welfare Association, Model Town, Patiala is being run for the treatment of suffering elderly people. Clinical Physiotherapist and faculty along with students of Bachelors and Master Classes are posted in these OPDs on rotation basis. More than 100 patients with variety of problems from different parts of Punjab, Himachal

Pradesh and Haryana along with students and staff of the University are being treated in these OPDs regularly. The Department is collaborating with Physical, Medicinal and Rehabilitation Department of Government Medical College, Patiala for providing palliative and therapeutic interventions to patients of varied conditions in Orthopaedics, Neurological, Cardio respiratory Intensive Care Units under single roof. The Department is also rendering its physiotherapy service to NGOs (Navjeevani, Sullar; Asha and Helpage) and to patients in private Hospitals of Patiala (Columbia Asia, Amar Hospital, Sadbhavana Hospital, Akal Hospital) with a view to expose the students to private sector which help them to increase their employability.

- Economics Department of the University has worked for highlighting the plight of marginalized sections of the society, especially rural students and marginal farmers, and given its inputs to the Punjab Government for taking corrective policy steps for achieving inclusive growth as enshrined in the 12th five year plan of India. The research done by the Department in this regard has helped the policy makers of Punjab State in their task of evolving holistic blueprints for future economic development of the state.

- Theatre and T. V. Department of the University has been enacting plays on the issues of drug de-addiction (Mitti Rooden Kare – ਮਿੱਟੀ ਰੁਦਨ ਕਰੇ) and female foeticide (Neun Jad – ਨਿਉਂ ਜੜ੍ਹ) in different places of Punjab, Haryana and Himachal Pradesh on request from local Panchayats, Youth Clubs and Deputy Commissioners of the respective areas.

- The Social Work Department of the University over the years has been dealing with the contemporary issues through social work which include issues related to gender discrimination, environment, HIV/AIDS and issues concerning elderly persons and socially disadvantaged people housed in welfare homes including old age homes, Orphanages, Pingalwara and all such places where such people are treated including nursing homes and hospitals. The PG students of the Department are made to adopt villages as a part of their project to undertake Social Work. Recently a global project "Saksham- GFATM" was completed in the Department under which training programs on HIV and AIDS counselling were regularly conducted since its start in 2009.

- Publication Bureau has set up a "Book Club," of which any interested person can become a member for one year by paying Rs.25/-. After this every such member of the Book Club becomes elegible for 50% discount on any title he/she wishes to purchase. A large number of readers are availing this facility.

- The Women Studies Centre regularly organizes programmes for sensitizing women against discrimination, domestic and work place violence and social evils. The centre has uploaded laws concerning women related issues on its website for creating awareness among them. This centre has completed projects concerning issues related to women working in unorganized sector to understand the reasons for declining sex ratio in Punjab. Women Studies Centre also undertook work in Village Dhreri Jattan as a case study. To study health related issues of elderly women, the Centre frequently visits Aggarsain Eye Hospital.

  For undertaking social work for uplifting the living standard of about 100 households of labourers, Punjabi University Women Studies Centre has adopted Akalgarh village of Dakala Tehsil of Patiala District.

B5   Evidence of Success:

(Provide evidence of success such as performance against targets and benchmarks, review results. What do these results indicate? Describe in 200 words).

- The impact of excellent services being rendered by the Physiotherapy Department is evident from the long list of successfully treated patients and regular huge daily rush in the OPDs of the Department. Patients are also being referred to the department for consultation and treatment from prestigious medical institutions including PGI, Chandigarh, CMC, Ludhiana, ISIC, New Delhi, etc.This is another example of the success story.

- The Theatre and T. V. Department is receiving repeated requests from different parts of North India, especially Punjab, Haryana and Himachal Pradesh to enact more plays for creating awareness against social evils.

- The Social Work department has successfully conducted 23 training programmes under "Saksham -GFATM" project in which 500 ICTC counsellors and staff nurses from PHC/ CHC were trained on request from PSAC/ NACO on HIV/ AIDS counselling. Besides this, the department also organized Refresher trainings for

Master Trainers and Supportive Supervisors. Through all such programs, besides inculcating confidence, improvement in their professional and communication skills, the students are being empowered with the basic tenets of professionalism for serving the society with love and compassion.

B6 Problems encountered and Resources required:

(Please identify the problems encountered and resources required to implement the practice - in about 150 words)

Paucity of sufficient funds is the major issue, which need to be addressed urgentlly so as to strengthen such socially relevant programmes **(Refer to A6 above)**.

7.4 OTHER BEST PRACTICES

Other practices of Punjabi University worth emulating for implementation in other institutions:

- Punjabi University's practice of organizing various Academic programmes including Conferences/Seminars on varied subjects in different disciplines throughout the year so as to provide platform to University and College scholars and teachers to interact with renowned subject experts invited from National and International Universities and Institutes of repute is worth emulating.

- Our University's practice of organizing panel discussions, extempore speech competitions, theme based Quiz contests and Poster presentations for University, College & School students to commemorate National Science day, Environment day etc. on regular basis is yet another important activity worth implementation in other institutions.

- Organizing Lok Melas, Congregations (Samagams), Folk Festivals and preperation of short documentaries of various vanishing Folk Arts, Folk Instruments with a view to preserve and propagate our rich cultural heritage is one of the prestigious activities, which the University is undertaking.

- Organizing Seminars/Special lectures by renowned scholars to commemorate the major historical events related to Freedom Struggle (Gadhar Movement, Komagatamaru event) with a view to appraise the present generation about the role and supreme sacrifices made by the freedom fighters in general and punjabis in particular for the freedom of the country.

- Celebrating the University's Foundation day by

organizing "Sarab Bharti Punjabi Conference" regularly since past 8 years in which besides academic programmes, the successful punjabis who have contributed significantly in different spheres including academic, cultural, films, theatre, music, folk arts, business, social work, sports, etc are felicitated. Regional conferences and local chapters devoted to the development and propagation of Punjabi Language and Culture are also being organized on regular basis in different states of India and abroad so as to take the flavor and essence of their mother tongue to their door steps. Besides the establishment of World Punjabi Centre in the University, there are many Research and Teaching Departments working for the development of Punjabi Language and Culture with a lot of devotion which is apparent from the huge amount of resource material generated by the faculty over the years. This dedication of the University towards fulfilling its mandate is worth emulating.

- There is decentralization of power by the Vice-chancellor. Senior teachers and officers are regularly involved in the decision making. Besides their teaching and research engagements, the involvement of teachers at this level has added to the peace and tranquility on the campus and this has resulted in the creation of positive impact on the academic and administrative functioning of the University.

- Department of Botany and Department of Zoology and Environmental Sciences have developed a know how and expertise in the taxonomic identification of plants, mushrooms, wood rotting fungi and insects. Identification services to scholars of different Research Institutes and Universities are being provided free of cost on regular basis. Botany Department has established internationally recognized Herbarium (PUN) in the Department for this purpose which is being digitized to make this facility available online (www.pupbotany.org.). There is an internationally recognized Botanic Garden (PATPU) which is serving as repository for the conservation of local flora, Medicinal Plants and many of the threatened taxa. Department of Zoology and Environmental Sciences has Entomological repository which is being consulted by scholars for insect identification.

- Providing Consultancy as is being offered by the Department of Theatre and TV to Television and Film Producers for casting and fixing crew members for

shooting documentaries.

- The University has Campus-wide Local Area Network on Optical Fibber Cable which serves as a backbone for accessing on-line journals, netsurfing, internet applications, on-line examinations, placement of students, online admissions and surveillance. The campus has 155 Mbps connection under NKN/NMEICT project of MHRD for netsurfing which surves as Intranet among various Universities of India for knowledge sharing and accessing the Journals.

Special Highlights for Promoting the Cause of Punjabi

Since Punjabi University, Patiala was established with the mandate of the promotion of Punjabi language, art, literature and culture, the University has been playing lead role in promoting Punjabi language in its entirety and making its presence felt all over the globe. In catering the linguistic and cultural needs of the Punjabi world, the avant-garde achievements of Punjabi University are:

o production of resource material such as encyclopedias, bilingual dictionaries, subject dictionaries, Atlases, Exegeses in Punjabi for promoting higher research in Punjabi Language, History, Religion, Art, Culture, Humanities, Sciences etc.

o Teaching Punjabi to overseas students as foreign language

o Creating software for inter script transfer

o Short term linguistic and cultural immersion programme for Punjabi youth for fostering better understanding of Punjabi culture & heritage

o Documentation of Folk dances, Folk festivals, Folk music, Sufi music and Sikh divine music

o Punjabipedia,Website, search engine

o Punjabi University's Vision 2020

o Professor of eminence, life fellowships, tenure fellowships for Punjabi scholars/historians/artists/ writers

o English translation of Punjabi Encyclopaedias, Punjabi Classics

o Punjabi translation of World classics and the writings of Nobel Laureates

o Production of general/text/translated books for teaching of Social Sciences in Punjabi medium

o Generation of mammoth database from national/ international Punjabi Conferences for the multi-dimensional expansion of the contours of Punjabi and Punjabiyat.

Previous NAAC Peer Team Report 2008

Peer Team Report
On
Institutional Accreditation
of
Punjabi University
Patiala (Punjab)
Pincode - 147001

Dates of Peer Team Visit
26th to 29th August 2008

National Assessment and Accreditation
Council, Bangalore

		Peer Team Report **On** **Institutional Accreditation** **of** **Punjabi University** **Patiala (Punjab)** **Pincode - 147001**	
	Section 1:		
	General	**Information**	
1.1	Name and Address of the Institution	Punjabi University Patiala Punjab -147001	
1.2	Year of Establishment	30th April 1962	
1.3	Current Academic Activities at the Institution (Numbers)		
	• Faculties	19 (Life Sciences, Physical Sciences, Medical Sciences, Commerce and Business Studies, Social Sciences, Languages, Law, Education, Art and Culture, Engineering)	
	• Departments/ Centres	42 (30 Exclusive PG Departments) (11 PG-UG Departments) (01) UG Department)	
		Life Science	04
		Physical Sciences	06
		Medical Sciences	03
		Commerce and Business Studies	02
		Social Sciences	11
		Languages	07
		Arts and Culture	05
		Education	03
		Law	01
		Engineering	01
		b) Research Centre/ Department	09
		c) Regional Centres (UG/PG/ Res.)	04
		d) Neighbourhood Campuses	06
		e) Constituent Colleges	06 (Two Colleges of Engineering are managed as

					University administrated departments; One College of Education and Two colleges of conventional subjects)
	• Programmes/ Courses Offiers	PG	51	M.Phil.	17
		Ph.D.	39	PGDCA	03
		UG	10	Diploma	03
		Certificate	07	Integrated UG-PG	02 (MBA and LL.B.)
	• Permanent Faculty Members Sanctioned - 919	Faculty Members (Present)			534
646		1. Main Campus Department			382
273		2. Research Centre and Regional Centres			89
191		3. Engineering Colleges (3)			63
		Adhoc/Contract (74+66+22)			162
		Teachers of 2 constituent Colleges			138
	• Permanent Support Staff	2099			
	• Students	10456			
1.4	Three Major Features in the Institutions' Context (As perceived by the Peer Team)	Three Major features of the institution • A state affiliating, coeducational multi-faculty university, functioning since April 1962, recognized by UGC under 2 (f) and 12 (B), providing higher education mainly to students of Punjab through normal and distance mode, offering UG, PG, PG, Diploma, Certificate and Research Programmes (M.Phil. and Ph.D.). • The university was established with a unique intention of promoting Punjabi			

		language, history and culture. Over the years, it developed as a conventional multi-faculty university. Of late, it is laying thrust in the fields of technical, professional education (computer science, management studies, teacher education, law, pharmaceutical sciences, engineering and technology) apart from the studies in Punjabi language, literature, music and dance; sustained support and efforts towards excellence in sports and cultural activities development of a suitable physical infrastructure. • The university has started 3 constituent engineering colleges (of which 2 are integrated colleges with admission after 10 + level in rural areas for the benefit of rural students at nominal fee/free of cost); a constituent college of teacher education, PG department of physical education, school/department of law, provision of computer science courses at 4 regional centres; concept and practice of neighborhood campuses offering computer science education (4 campuses), developed software for Punjabi language, published encyclopedia of Punjabi thrust to gurmat sangeet, community participation of community stakeholders and mobilization of financial resources. The university also offers UG, PG, certificate, research programmes through distance education directorate (39 courses).
1.5	Dates of Visit of the Peer Team (A detailed visit schedule may be included as given below):	26, 27, 28 and 29th August 2008 Detailed visit schedule is enclosed.
1.6	Composition of the Peer Team which undertook the on-site visit:	Composition of Peer Team
	Chairman	**Prof. C.Thangamuthu**
	Members	**Dr. Y.M.Jayaraj**

		Prof. Vunnam Venkaiah
		Dr. Indrani Chakravarti
		Dr. Shailendra Saraf
		Dr. Savita R Gandhi
	NAAC Coordinator	**Mr. B.S.Madhukar**
		Mr. B.S.Ponmudiraj
	Observer	**Mr. L.M.Kapoor**
	Section II : Criterion Wise Analysis	Observations (Strengths and/or Weaknesses) on Key-Aspects (Please limit to three major ones for each and use telegraphic language. It is not necessary to indicate all the three bullets each time. Write only the relevant ones).
2.1	**Curricular Aspects:**	
2.1.1	**Curricular Design and Development**	- The University has developed curriculum suitable to its objectives, leading to courses in basic, applied and professional subjects. Majority of the existing courses are of traditional and conventional nature and a few are of applied and professional nature. The new courses designed and developed are in the fields of Computer Science, Engineering/ Technology, Business Management, Pharmacy, Education, Law and music. - The courses have relevance to the regional, national and global needs. Majority of the courses of science faculty and professional courses of other faculties have laid thrust on the development of skills, global competencies and knowledge components. - The courses in the field of Art and culture, Punjabi and a few of social sciences have a thrust towards theorectical and practical knowledge, creativity and value based education. Design and development of majority of courses are on traditional/ conventional lines and are as per the UGC pattern. - Introduction of integrated courses (LLB, MBA), UG Honours and PG courses in the same department/ subjects (Economics, Punjabi, Physiotherapy, Pharmacy, Education, Gurmat Sangeet, Library Science, Law and Computer Science) is a progressive step. Integrated B.Tech. course for 10+students especially for rural areas, BCA, MBA, PGDCA and computer certificate courses are

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		helpful in tapping the rural talent to develop skills and global competencies.
2.1.2	**Academic flexibility**	• The university through its 10 faculties and 42 departments offers 51 PG, 17 M.Phil. 39 Ph.D., 10 UG, 7 certificate, 3 diploma and 2 integrated UG-PG courses. Five departments offer 2 PG courses, while Department of Computer Science offers 3 PG courses, Physics offers 3 PG courses. 10 departments offer both UG and PG courses. Thus there is flexibility for a student to choose a PG programme/UG programme. • The institution has introduced through its 2 constitent colleges an integrated B.Tech. (for 10+ students level, 6 years course), at regional centres. Introduction of UG, Diploma and Certificate Programmes in Computer Science at four neighbourhood campuses for rural students along with integrated MBA and LLB are not worthy. • The career oriented programmes and dual degree diploma courses are yet to be initiated (2008 started).
2.1.3	**Feedback on Curriculum**	• Feedback from state holders is informal and indirect. Systematic feedback and analysis and its implementations is not in place. • There is a need and scope for the systematic feedback from employers and stakeholders and also on the new courses, their design and expectations.
2.1.4	**Curriculum update**	• There is a regular frequency in the curriculum revision of all the courses. • The model syllabi of UGC, AICTE and other role model institutions are perused while updating the curriculum. • The development of interdisciplinary approaches by taking the expertise already available, based on the need and relevance is yet to be institutionalized.
21.5	**Best Practices in Curricular aspects (if any)**	• Introduction of integrated B.Tech. at 10+level, MBA and LLB, introduction of computer science, education, law and management related courses at all levels (PG to certificate) on main campus, regional centres and neighbourhood campuses. • Introduction of semester system.

2.2	**Teaching - Learning and Evaluation**	
2.2.1	**Admission Process and Student Profile**	• Admissions for all the courses are based on merit cum reservation policy of Government of Punjab and as per the intake fixed by the university. Special quota of seats are earmarked for sports, NSS, defence and other categories. • The university gives wide publicity to its process of admission; in press, website, notification, radio and e-media. For professional courses, the admission is based on the state level entrance tests. • Through open transparent admission process and reservation policy, the university ensures access and equity.
2.2.2	**Catering to the diverse needs**	• The institution is yet to institutionalize the practice of remedial coaching, bridge courses, coaching and awareness courses, mentorship and methods/strategies for the identification of slow/ fast learners.
2.2.3	**Teaching-Learning Process**	• The university follows an academic calendar of events to ensure T-L-process. • Conventional/traditional lecturing methods are suitably supported by seminars, assignments and field studies. For professional and applied courses, usage of ICT enabled TLE is being encouraged. • Courses with practical work give thrust to experiments, experiential learning and problem solving approaches.
2.2.4	**Teacher Quality**	• Teachers are recruited as per UGC and state government norms with reference to sanctioned posts, qualification & reservation. • There are 534 permanent teachers against a sanctioned strength 919. Around 70 per cent of them have Ph.D. qualification. In order to augment the shortage of teachers, about 162 temporary staff and part time staff have been appointed. Amongst the permanent staff, around 20 per cent are Professors while 25% are Readers and 55% are Lecturers. There are three visiting professors (history, fine arts, physics), one professor of eminence (Punjabi development), ten tenure, fellows, twelve life fellows (1 in economics, 11 in Punjabi

		development), three professor emirates apart from UGC emirates (4-chemistry, economics, public administration). • Teachers are encouraged to participate in faculty development programmes like orientation/refresher/ conferences/workshops. • The institution has arranged 28 international and 130 national level/state level seminars/ workshops. Apart from these endowment lectures and invited lectures have been arranged. • Teachers have received around 100 state level awards and two international awards. One teacher has received Hambolt fellowship while another is a receipient of DAAD German fellowship. A faculty member was visiting faculty to a German university. Two teachers are the honorary fellows of FNA and two are members of FNASc.
2.2.5	**Evaluation Process and Reforms**	• The examination system is transparent and systematic. Institution follows all the conventional norms of a university evaluation system namely centralized examination system, coding, and double evaluation and examination calendar of events. It also follows re-totaling and revaluation mechanism for all Coruses.
2.2.6	**Best Practices in Teaching-Learning and Evaluation (if any) :**	Transparent admission process and thrust on rural students to take up professional courses.
2.3	**Research, Consultancy and Extension**	
2.3.1	**Promotion of Research**	• The instution promotes research activities among staff members by organizing research development workshops/ programs. All the permanent faculties are involved in research. • Three departments (Zoology, Botany and Computer Science) have received DST FIST assistance. Seven Departments (Chemistry, Botany, Zoology, Computer Sccience, Physics, Economics, Punjabi) are

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		under UGC SAP/DSA/DRS scheme. The department of Computer Science has one assisted research project on transliteration while that of Sociology has an UNESCO sponsored project. There is good scope for other departments to tap the resources of UGC/ICSSR/ICHR and others for promoting research in their respective disciplines. • The institution is providing laboratory facilities to promote research work at departmental level and also central facilities like USIC. Collaborative research is also encouraged. Researchers are given cash incentives, leave facility and recognition by the institution. The University spends around 3% of its budget to promote research to provide infrastructure equipments and financial incentives.
2.3.2	**Research and publications output**	• Apart from 42 PG-UG departments promoting research through research projects and research programms (M.Phil.-17, Ph.D.-39) there are 9 research centres in the University exclusive to address the research thrust areas of Punjabi (Literature, Culture, History, Music, Language, Encyclopedia, Guru Granth Studies) and one research centre on Maharashi Valmiki. There is scope to diversify the research centres/chairs in other faculties also. There is increase in the numbers of Research Scholars (771 Ph.D. and 336 for M.Phi.), research is mainly carried out "Punjabi" and also in physical/life sciences, medicine sciences, economics and other social sciences. About 490 students have obtained Ph.D. degrees during the last 5 years. • Department of Biotechnology, Botany, Human Biology, Zoology, Chemistry, Computer Science, Physics and Pharmacy have around 44 research projects sponsored by UGC/DST and other agencies. The

		Departments of Economics, Geography, Religious Studies, Linguistics, Punjabi, Sanskrit and Arts-Culture have been able to mobilize resources to their research projects (Rs. 100 lacs).
		• There are 580 international level and 914 national level research publications. Apart from these, there are 277 books and around 1200 university level publications. There is scope to project the publication value through citation index/impact factors. The institution has one registered patent (Biotechnolgoy). The faculty of chemistry has applied for 5 patents while the faculty of pharmacy has applied for 3 patents.
		• Publication of two volumes of encyclopedia of Punjabi and development of Software package for Punjabi language (gurmukhi script to Shahmukhi script and vice-versa), preservation of musical instruments, archives of gurmat sangeet, translation works, text books and reference books on Punjabi literature, history and culture are commendable. Publication of the report by a staff helped in the identification of a community for reservation status by the state government.
2.3.3	**Consultancy**	• Consultancy services are offered by the departments of psychology (counseling), physiotherapy and sports sci. (genetics physiotherapy and medical physiotherapy). The expertise consultancy offered by the staff of zoology and botany is commendable.
		• The institution has earned around Rs. 17.00 lakhs as consultancy. The staff of other departments offer necessary consultancy to NGO & neighbouring institutions. The staff of the departments of art and culture are also offering consultancy in their fields.

		• There is scope for publishing the expertise and provide conslutancy in the field of social sciences.
2.3.4	**Extension Activities**	• The university promotes its extension activities through its 4 units of NSS on the main campus area and through the units of the affiliated colleges around its jurisdiction. Thrust is on conventional extension activities of the NSS programme. The NSS volunteers have participated in pre ID camps, national integration camps. • The departments (psychology, theatre and television) are carrying out community oriented awareness programmes and rural empowerment. The publication unit of the university has brough out around 250 books mainly in Punjabi. It has received government of India award for printing and designing. • The extension activities of other departments are nedd to be strengthen and more NGOs can be involved.
2.3.5	**Collaborations**	• The department of physics, computer science, chemistry, religion studies, psychology, pharmacy, library science, forensic science, sports science and physiotherapy, Hindi, linguistics, Punjabi and Punjabi related departments have international collaboration in the field of research, expertise, exchange and use of infrastructure. • Majority of the departments of science faculty and a few social science/language faculties have both formal and informal MOUs with national research organizations. • Interdisciplinary/multidisciplinary collaborative approaches within & outside university systems are yet to be initiated.
2.3.6	**Best Practices in Research Consultancy and Extension**	• Publication of a volume on encyclopedia of Punjabi. • Development of software on transliteration of Punjabi scripts.

		• Collaborative research in the field of solar energy.
2.4	**Infrastructure and learning resources**	
2.4.1	**Physical Facilities**	• The University has a good campus of 388 acres, developed on a master plan with a built up area of around 2.0 lac square meters. It also has regional centres/campuses/neighbourhood campuses comprising around 300 acres. The campus has very well planned academic and administrative buildings, central facility buildings, art, theatre, studio, audio visual rooms and 11 hostels and utility buildings. • The academic buildings have classrooms and laboratories as per the needs of the departments although the need for more space has emerged due to enhancement in the enrolments. The sports facilities require modernization. Although there are eleven hostels, there is growing demand for more hostel facilities. • The aesthetically designed religious study centre is symbolic of its vision and mission. The campus has well laid down roads, aesthetically designed gardens and landscape. The library and other support services also have adequate infrastructure. • The funds from DST and UGC through its schemes have helped the departments to enhance their equipments & laboratory facilities.
2.4.2	**Maintenance of Infrastructure**	• The University strives to maintain the physical infrastructure out of its own resources and budget provision through its estate/engineering wing. The computer systems and equipments are maintained through USIC/AMC and in-house mechanism.

		• The library infrastructure/building requires re-planning and restructuring, keeping in mind the huge as well as unique collections and back volumes.
2.4.3.	**Library as a Learning resource**	• The Central library has a vast collection of around 4.2 lakhs books and back volumes of journals. It has a unique section of Punjabi literature (language/cultural library and a good collection of Punjabi manuscripts, serving as a reference centre for Punjabi language related research work. • Through Info net, the university is able to have access to around 4100 e-journals online. Apart from UGC funds, the university also allocates funds towards purchase of new books. There are around 15 departments having their own department libraries with good collection of books and journals. • Library data is partially computerized. The automation process and transaction along with DDC classication is likely to be initiated at the earliest. CCTV camera installation helps in monitoring of movement of users. The post of librarian is vacant. There is a scope for professional management of library resources. There are around 40 computers in the library, of which 7 terminals with internet access is available to students on payment basis. In view of the increase in the enrollment of students over the years, there is a need for more number of reading rooms.
2.4.4	**ICT as Learning Resources**	• The university has number of ICT based courses apart from technical courses. Around 800 computer systems and peripherals are available which is inadequate as per the standard requirements. All the departments have been provided with computers. The central

		computer centre (CCC) through its 4 sub centres located at different buildings, strive to servwe the student needs, but falls short of expectations and requirements. The optic fiber mode of internet connectivity along with Wi-fi system, and website are updated and maintained by central computer centre managemd by 3 system analysts. It has received UGC assistance. • The studnets feel the necessity of augmentation and strengthening ICT. • More computers are needed by ICT enabled courses/ departments as per AICTE norms. Software's as per the requirement of syllabi are available. The CCC has conducted a few skill development programmes to non-teaching staff, although there is a scope for basic computer literacy programmes for all the students and staff.
2.4.5	**Other Facilities**	• The university has all the supporting infrastructure facilities like hostels (11), guest houses (2), canteen (6), STD/telephone booth, bank, post office shopping centers, buses, office vehicles parking sheds, adequate basic facilities at health centre, creche (baby care centre), residential complex, veldrome, cricket/football/hockey ground cinder atheletic track indoor-stadium, gumasium, an auditorium, open theatre. • The university has a vast botancial garden (22 hectares), which is very well maintained, having endangagered species and rare plants. It has green house and a cactus garden. There is an attempt to cultivate medicinal plants. The museum and photo galleries of zoology, botany and laboratories of physics, chemistry and of the life sciences/medical sciencs are well

		equipped (although the space is inadequate). • The university has a fleet of buses and vehicles for the use of staff and students, speically for theatre, and music departments. The studio of journalism is well equipped. Land scaping and gardening is very good.
2.4.6	Bestpracits in development of infrastructre nd learning Resources	• Good botanical garden (member of the international botanical garden consortium), entomology museum, state of art Kala Bhawan, arcitecturally designed religious stduy centre • Good gardening, well maintained roads. • Punjabi literature/culture library, museum, folk art music instruments and manuscropt collection.
2.5.1	Student Progression	• The progression of students to higher education is around 15-20%. The success rate is around 75-80% with adequate percentage of first-classes, but with less number of distinctions. The dropout rate is marginal (aroudn 3-4%). • The students are given adequate information about facilities fee structure, examination metho-dologies and provision of academic rules in the form of "welcome book". The continuous internal evaluation tests and their evaluations are not synchronized, thus lessening the importance of experiential learning and improvement. • Enterpreuener development activities ar not adequate and lack focus.
2.5.2	Support Services	• The support services like library, sports, hostels, central facilities and ICT tools are available, but less adequate.

		• Counselling services are provided by the department of psychology on selective basis. Placement cell has been made functional to provide guidance and placement especially for MCA, MBA and IT related courses. The efforts of placement cell in these directions are satisfactory, but the students expect these to be extended to other professional/applied courses, apart from its publicizing and open strategies. • There is a provision of helath facility and medical advice of 3 Doctors and supporting staff. The hospital has ECG and X-ray machine, emergency ward, apart from clinical laboratory facilities. The students, staff and neighborhood people avail of the OPD and inpatient facility of Hospital. Annual medical Check camps ar also conducted. • Governemnt and sponsored scholarships are made availabe to the respective category of the students. Scholarships from philanthropic nternational trusts to 15 students of Gurmat Sangeet department is a commendable feature. The researchers feel deprived of university sponored research fellowships. • The physical support services, cultural and sports facilities are adequately made use of by the students, while they expect better ICT enabled support and in house hostel facilities. The security system and conduct of students on the campus is statisfactory.
2.5.3	Students Activities	• The university since its inception has been promoting the cultural and sports activities of students at university's name always figures among the winners or runner ups (GoldSilver/Bronze Medals) in majority of the events at inter

		university competitions. (Zonal as well as all India level). The unviersity thorugh its department of physical education, department of youth affairs and students welfare enxures proper taining and participation, apart form giving a number of incentives. • The department of youth affairs has also made sincere attempts to promote, preserve and propagate punjabi folk dance/music and art. The department of theatre, dance, music (vocal and instrudmental), mass communication, fine arts also help the stuents in talent search, nurturing of creativity and facilitation of showcasing the same. The facilities of Kala Bhawan, mobile unit and departmetns of arts and culture have helped in the enhancement of cultural activities of students.
2.5.4	Best Practices in Student Support and Progression	• The University has received the prestigious 'Mulana Abul Kalam Azad Trophy' of AIU for the "Best University Sports Team" for the year 2006-07 at all India level. • Encouraghement and support to cultural and sports activities. • Donor sponsored fellowships to students of Gurmat Sangeet department.
2.6	**Goveranance and leadership**	
2.6.1	Institutional Vision and Leadership	• The university, befitting to tis vision has tried to realize the mision-promotion of research, propagation and popularization of punjabi language, literature, music and related religious studies, later it has strived for diversification into a multi-faculty facet. Of late, it has given its trust to impart technical and ICT related education to rural students through a private-public-university-govt. enterprises model along with the

		local community participation. • The institution has tried to bring in reforms and related changes in high edudation.
2.6.2	**Organizational arrangements**	• The university is functioning as per the provisions of the State University Act. It has also got a number of non statutory committees, comprising the teaching and non-teaching faculty of the university, leading to a participatory management system. • It coordinates the academic and examination activities of the affiliated colleges through a separate directorate of college development. It also coordinates the activities between UGC regional office and affiliated colleges. • There is informal grievance redressal mechanism, which needs to be institutionalized.
2.6.3	**Strategy development and deployment**	• The university has to evolve its perspective planning and strategic action plan. However it has made a move in a particular direction-proviion of technical education to rural students through an integrated UG course for 10+ students. However this strategy is likely to affect the development of other departments. • Institutional approach in decision making is visible, but needs concertized sustained efforts. • Staff deployment based on need is evident, especially for important statuory and non statutory positions of the university, on adhoc basis. This may put a heavy burden on a selected few on one hand and deprivation of opportunities to others.
2.6.4	**Human recourse management**	• Due to improper policy formulation of the state government over a decade, the recruitment of teacher

		staff has been affected resulting in the heavy burden on the existing staff. Thus, more than 30 per cent of the sanctioned posts are vacant. • UGC and government norms are being followed in staff recruitment and promotional schemes. • Informal self appraisal mechanism is in place (except three departments). But the 360° evaluation is yet to be internalized and institutionalized. • The University is creating the new posts for its newly estbalished engineering colleges based on its own financial resources to augment the shortage of staff.
2.6.5	**Financial management & resource mobilization**	• There is a good mechanism of generating resources from philanthropists and student fees (25% of budget from state government and rest from resource mobilization). • There is internal as well as external audit mechanism, although it requires modrn corporate approaches. • Budget provision for academic and research activities are less than the demand/need.
2.6.6	**Best practices in governance & leadership**	• Mobilization of financial resources from philanthropists, UGC, other agencies and distance education department. • Cash award incentives to researchers, sports persons and artists.
2.7	**Innovative practices**	
2.7.1	**Internal quality assurance system**	• IQAC is functioning as per the norms, although it requires proactivation, documentaion and systemization in its approach. • Participation of stake holders is limited.

2.7.2	**Inclusive practices**	• Only five percent of rural students had access to higher education till recently in this area. Hence the initiative for taking higher education to the door steps of people through neighborhood campuses/ICT enabled courses, integrated B.Tech. courses at 10+ levels, integrated MBA, LLB courses and so on at an affordable cost and donation. • About 46% of enrolment is of women. There is fair representation of SC students. In a few courses girls out number boys. • Strategies for improvement of students of marginalized sections of society are only informal.
2.7.3	**Stake holders relationships**	• Local participation of people in neighborhood campus through donation of land and provision of free education/at affordable cost at least, for few courses. • The university is trying to fulfill its obligation to rural students, social responsibilities and its catalytic role in socil economic change, but integrated approach is not in place. • Absence of systematic feedback mechanism, its analysis and systematic approaches undermines the active participation and involvement of students in order to measure student satisfaction.
3.0	**Overal Analysis**	
	Institutional Strengths	• A wide range of programme options in varied disciplines including Languages, Humanities and Social Sciences, Fine Arts, Basic Sciences, Professional Programmes (Engineering, Pharmacy, Physiotherapy, Management, Law, Education), among others; but also continuing with the special thrust on the main objective of the University, viz., promotion of studies and research on Punjabi

		language, literature, religion, culture and heritage.
		• Taking the higher education programmes to the doorsteps of the rural/backward regions through establishement of several neighbourhood and satellite campuses, and also efforts to provide professional education with subsidized fee structure for the benefit of the poorest in the rural area.
		• Special efforts towards resource mobilization (creating a separate structure under a Dean for the task) through contributions from NRIs, alumni and others; sizeable revenue generation through self-financing professional programmes, and from correspondence courses.
		• Quite an enterprising managerial initiative in getting severla structures/ schemes sponsored and supported by UGC/Government/ NGOs; some buildings/facilities have also come up thanks to magnificent contributions of donors.
		• Besides strong academic profile of a good number of Departments of Studies and Research (especially in Science faculties), a commendable and sustained record of accomplishments in sports.
3.2	**Institutional Weaknesses**	• A good number of faculty positions lying vacant; leaving some of the Departments under staffed/managed by adhoc faculty. In this context, it is noted that some posts have been advertised recently.
		• Despite a large number of programmes being offered in multiple disciplines, there is little horizontal mobility for the students to choose across the disciplines (curricular reform such as choice-based credit system is yet to be attempted).
		• While there are some pockets of

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		individual excellence in research, the over-all strength in terms of research projects and quality publications in refereed/high-impact-factor journals (in terms of, say, per capita averages) deserve to be improved. Many of the publications happen to be the books published by the university Press and a good number of articles in house journals, particularly in humanities and social sciences. • A considerable amount of duplication/overlapping of activities by a number of differently christened departments/chairs on account of funding factors. Lack of co-ordination/interaction among the related departments, for want of any umbrella structure called school. • The functioning of student support-structures (placement cell, grievance redressal cell and others) and conditions of hostels, and of learning resources, (particularly in access time, and opportunity and ambience) deserve to be improved to ensure better levels of student satisfaction of the campus.
3.3	**Institutional Opportunities**	• Scope for developing some autonomous schools/ centers of excellence taking some strong departments as nodal points (Biological Sciences, Physical Sciences). • A good opportunity for this multi-faculty University offering over 50 PG programmes in the campus, for giving adequate freedom/flexibility for the students in the choice of credit-based soft core courses across the disciplines. • Scope for improving career-focus of the programmes by imparting soft-skills including communication skills in English and by offering skill-based add-on certificates/ diplomas on a concurrent basis. • Opportunity for improving

		consultancy and extension thrust, for dissemination of research findings relevant for application, through better university-industry linkages, by creating a separate catalytic structure for the purpose. • Scope for improving the quality of the professional and other programmes; for instance, longer time-span of integrated six-year Engineering programme (plus two and BE together) providing ample scope for enriching the curricula, more industry-oriented and with internship.
3.4	**Institutional Challenges:**	• Location of the University in a region with low industry/urban concentration and hence challenge of industry-interaction (hence the visiting faculty, industry visit found to be minimal). • Having been established as a Punjabi (language) University with the special goal of promoting Punjabi language, literature and culture, the continuing challenge of striking a judicious balanace between the special thrust and other general role of a university. • Challenge of finding quality faculty/ resources for expanding and sustaining the quality of programmes in the so many satellite/ neighbourhood campuses (around 18 of them); the pressures from other areas are also likely to mount. • Challenge of affiliation-related burdens and diversions generally associated with an affiliating university: challenge of managing large number of non-teaching staff. • At the macro level, emerging challenge of several central/national universities which are likely to drain out good faculty and resources from the general pool; posing a greater challenge of competition to the state universities.

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4.0	**Recommendations**	
		• Taking due advantage of the wide-ranging program options available on the campus, a flexible choice-based credit system could be adopted for the advantage of the students and for better and cross-border utilization of the faculty/ facilities. • A number of Departments/Chairs doing very similar/related programmes leading to inevitable overlapping/redundancies be avoided. Grouping and integrating these smaller sub-units into optimally sized schools may help better effective delivery of inter-disciplinary programs also. (Statutory concept of Faculty may need to be readdressed in this regard). In contrast with the existing sub-optimal Departments, the purposed Schools would qualify for better funding support-under SAP/DSA of UGC and other bodies. • Autonomous Centers of Excellence (leading to National Facilities) be established on the strength of the research accomplishments of the three Fellow Scientists in their fields of specialization. Autonomy be extended to other deserving departments and affiliated colleges. • Campus infra-structure needs to be expanded/ toned up (eg. Faculty cubicles/separate rooms, more of hostels to ease out the current congestion in occupancy, making the entire campus with wi-fi facility, more and free internet facility in the library, e-teaching/ learnign gadgets to all the Departments including the Departments of Fine and Performing Arts, Generator facility for all the vital segments such as Library and others). • Central Instrumentation Facility by pooling the costly/sophisticated

		equipments may be explored to ensure effective utilization and maintenance. • Career-focused short-term add-on Diploma/ certificates be offered on a concurrent basis in most of the departments for the purpose of enriching the skill-sets of students. Fees for such courses be cross-subsidized from the revenue generated from self-financing professional programmes. • A hassle-free structure/procedure be evolved to enable the Pls of the sponsored research projects execute their projects without wasting their time/energy on bureaucratic machinery. While commending the incentive system recently introduced for the Project Fellows (2% of the Project cost as incentive), a comprehensive incentive system for better performers could be explored. • Student evaluation of teachers be extended to all the departments. Eventually, a 'three hundred sixty degree' comprehensive evaluation could be introduced to ensure an all-round sensitization and involvement of all stakeholders on quality parameters. IQAC be strengthened as an effective pro-active body. • Student support-structures and services be strengthened for better career guidance and placement, and grievance redressal. Training in soft skills including English communi-cation skill and computer literacy/ training for the students (also for all the non-teaching staff) be provided at free/subsidized cost. Establish-ment of language lab and outsourcing of professional expertise may be useful in this regard. • E-Governance in all branches of administration and networking with the affiliated colleges and all the

		Departments/satellite and neigh-bourhood campuses, ensuring better transparency and dissemination of information could be purused in a systematic manner.
	I agree with the observations of the Peer Team as mentioned in this report.	

Signature of the head of the institution
Seal of the institution

	Chairman	**Prof. C. Thangamuthu**	Sd/-
	Members	**Dr. Y. M. Jayaraj**	Sd/-
		Prof. Vannam Venkaiah	Sd/-
		Dr. Indrani Chakravarti	Sd/-
		Dr. Shailendra Saraf	Sd/-
		Dr. Savita R. Gandhi	Sd/-
	NAAC Coordinator	**Mr. B.S. Madhukar**	
		Mr. B.S. Ponmudiraj	
	Observer	**Mr. L.M. Kapoor**	
	Place	**Patiala (Punjab)**	
	Date	**29-8-2008**	

Action Taken
on
Previous NAAC Peer Team Report 2008

Action Taken on Previous NAAC Peer Team Report 2008

1. Many career oriented programmes started like Integrated Masters in Engineering-Management, Courses related to Tourism, Hospitality and Hotel Management. For details please refer to Criterion I, pp. 52-58.

2. The University considers the view of the employers and stakeholders for incorporating new components in the syllabi of many courses as per the new requirements of the market. Many new courses are also designed to meet the local and global needs.

3. Many inter-disciplinary programmers are being run by the University, where expertise/resources available in the University are utilized, such as B.A. (Honours) School in Punjabi and Economics department, PG Diploma courses run by Women Studies Centre and Centre for Diaspora Studies, etc.

4. Extra classes are arranged for the slow learners. A few departments like Women Studies Centre, Social Work, Theatre and TV, Placement Cell, NSS, organized Workshop/Training Programmes and stage shows to make students/public aware about many social issues.

    Counseling Camps are being organized by Departments of Psychology, Sociology & Social Anthropology, Physiotherapy, Botany and Placement cell.

5. Research funding has increased from 3% to 13% of University's total budget.

6. University has 69 ongoing projects and it has completed 63 projects.

7. During the last NAAC accreditation numbers of research paper publications were 2621 and after that the university has produced over 5400 more research papers in journals.

8. The University has produced 765 Ph.Ds during the last four years.

9. Number of books published has increased from 277 to 438.

10. University has improved in terms of research activities and departments under UGC-CAS, UGC-SAP, UGC-BSR, UGC-FIST, DBT-IPLS. The details are given in 3.2.2 to 3.2.6, pp. 111-119.

11. Total number of departments including neighbourhood campuses/ regional centres/constituent colleges have increased from 59 to 92.

12. Six new research centres have been established for advanced research/studies in their respective fields.

13. Number of Chairs has been increased from 3 to 6.

14. Number of programmes has been increased from 261 to 522.

15. As far as faculty of Social Sciences is concerned departments of Economics, Sociology and Social Anthropology, Social Work, Psychology, Defence & Strategic Studies, Women Studies Centre and a few research centres provide consultancy in different areas and also pertaining to many Socio-Economic issues and there expert lectures are also published.

    Most of the departments in the University organized many extension activities and wherever needed NGO's are involved. Sports, NSS and Cultural activities have also been increased substantially.

16. The number of MoUs signed and collaborative efforts made with industries/institutions/organizations have increased.

17. The Library infrastructure and building have been renovated and modernized. The unique collections and back volumes have been digitized. The lift for differently abled persons is installed.

18. The Computer Centre of the University runs evening classes for PGDCA programmes for students/staff.

    The ICT facilities have been augmented and strengthened.

19. Only return exam is not the criterion for the evaluation of the students. Many continuous internal evaluation tests and other activities such as practicals/ seminars/ discussions/ assignments/ quizzes/ attendances, etc. are also a part of the evaluation in the departments.

20. A special cell "Entrepreneurship and Skill Development" has been created by the University to enhance the entrepreneur skills of the students.

21. Grievance redressal cells have been created by the University and there is a mechanized for redressal of grievances of different types through these cells.

22. The Student Support services have been improved considerably. Many of the services have been automated like admission process. All the necessary forms, results, time tables, academic calendar, etc., are available on university website for the students. For details refer to Criterion V.

23. As far as curricular reforms are concerned, the university has adopted semester system in all the regular programmes w.e.f. session 2014-15. W.e.f. session 2015-16 CBCS has been adopted in a few of

the departments. In general all the departments instructed to redesign their curriculum to incorporate CBCS.

24. Communication Skills and Soft Skill Programmes have been introduced in a few of the programmes and these are also offered by the placement cell to the interested students.

25. The University has started 8 Integrated Masters programmes.

26. The University has grown co-currently by keeping a balance between the special thrust (i.e. promotion of Punjabi Language, Literature, Art and Culture) and other general role of the University.

27. Campus infrastructure has been expanded considerably. Many of the new buildings have been constructed a few of the existing buildings have been renovated/extended. For details please refer to 4.1.2 at p.169.

28. Many new sports facilities have been created by the University and it has improved a lot in sports activities which can be judged from the fact that during the last 8 years, the University has won MAKA Trophy 7 times. Achievements of the students in Sports and Cultural activities are given in 5.3.2 at p. 252.