

## Part A:

### **The Plan of action chalked out by the IQAC in the beginning of the year towards quality enhancement and the outcome achieved by the end of the year:**

In the present age of electronics and scenario of rapidly expanding economy & globalization, the gap between rural and urban youth is increasing. All the modern amenities and better facilities are being concentrated only in urban areas. Due to better Colleges, Schools, and Hospitals, fast transport and communication facilities in urban areas, the rural students can't compete with their counter parts of urban areas. A recent study (2006) conducted by Punjabi University, Patiala reveals that over all 4% rural students get admission in various Universities of Punjab. The split-up is as given below:

Punjabi University, Patiala	8%
Punjab University, Chandigarh	2%
Guru Nanak Dev University, Amritsar	3%
Punjab Agriculture University, Ludhiana	4.7%

In view of the fact that 66% of the population of Punjab lives in rural areas. It is shocking to note such a low percentage of rural students in Punjab Agricultural University which is concerned mainly with the rural profession.

Gandhi ji said:

**"Unless the common man and every village are made self-reliant, the country would never be self-reliant"**

In view of the drastic difference between the facilities, services and opportunities available to the people of urban and rural areas, increasing demand of quality higher education and to enhance the quality of teaching and research, the University planned to incorporate the following decisions during this academic year:

- (a) Free Technical Education to very poor rural students.
- (b) Take higher education to the door- steps of ruralites in Punjab.
- (c) Expansion of technical education and professional courses.
- (d) Ensure optimum utilization of the infrastructure and facilities already available with the University.
- (e) Enhance the quality of research in all disciplines.

**(a) Free Technical Education to poor students:**

A survey conducted by National University of Educational Planning and Administration highlights the following facts:

**"There is no teacher in 9,503 primary schools and only one teacher each in 1,22,355 schools in the country".**

No need to say **that the affected schools are only those located in rural areas.** This is the main reason that only 3-4% of rural students could reach the University Campuses for higher education.

Another survey conducted by National Sample Survey Organization reveals the fact:

**"One third of rural India (over 200 million persons) still live on less than Rs. 12/- per day. However, in states like Orissa, Chattisgarh, Bihar, Jharkhand etc. the percentage of such persons is 55-57".**

Can this section of our society spend lacs of rupees to give higher/professional/technical education to their wards particularly in the present age when the State Governments are not ready to spend on education as a result it going into the hands of private operators?

In the light of these findings, free education is not only the need of Punjab but the whole country. Therefore, Punjabi University took the lead and started Yadavindra College of Engineering to give free education to poor and deserving rural students. The students are admitted after matriculation in the six year B.Tech. courses. Punjabi University may be the first university to allow intake after 10th class of school. It has shown Social responsiveness to the existing reality that school education in rural areas of Punjab has collapsed. In addition to free education, very poor students are provided with free boarding and lodging in the hostels. Immense efforts are being made by the Dean, Resource Mobilization and Advancement cell under the able guidance of Honourable Vice-Chancellor to arrange funds from benevolent donors of Indian and Foreign origin.

**(b) Higher Education at the door-steps of rural population:**

In view of the increasing need of technical education and virtually no such facilities in rural areas, the University took a very bold and noble step to (i) generate awareness amongst the rural parents about the need of higher education in the present scenario and to (ii) open its educational institutes in rural areas especially the educationally backward Malwa region of Punjab. These institutes have been given the name of **Neighbourhood Campuses of Punjabi University**. There was a tremendous response to this concept. The concept is that when rural areas came forward and give land free of cost to the University, the students of that village and that sub division should be given special allocation of seats in all courses run in the Neighbourhood Campus. This concept was evolved by the Vice-Chancellor in the light of the fact that no urban society has given an inch of land or a penny in developing the present Universities of Punjab. Various village-panchayats gifted 300 acres of their valuable land to the University for establishing **Neighbourhood Campuses** in their respective areas. Although some more panchayats were requesting for opening such institutions in their respective areas but the University decided to establish the following six **Neighbourhood Campuses** during the academic year 2006-07:

1. **Punjabi University Neighbourhood Campus, Rampura Phul, Phul Mehraj, Dist. Bathinda.**
2. **Punjabi University Baba Dhian Dass Neighbourhood Campus, Jhunir, Dist. Mansa.**
3. **Punjabi University Neighbourhood Campus, Sardulgarh, Dist. Mansa.**
4. **Punjabi University Neighbourhood Campus, Karandi, Dist. Mansa.**
5. **Punjabi University Akali Phoola Singh Neighbourhood Campus, Dehla Sehan, Dist. Sangrur.**
6. **Punjabi University Baba Jogi Peer Neighbourhood Campus, Ralla, Dist. Mansa.**

The students had been encouraged throughout the year to participate in the extra-curricular activities such as NCC, NSS, youth welfare activities, cultural programmes, debates, technological festivals, sports etc. In order to keep these rural and financially weak students in high spirits, efforts were made to maintain a constant and active interaction with the industry by holding regular extension lectures by renowned academicians, technical experts, administrators and industrial houses. In addition, a few educational tours of the students to the surrounding industries were also arranged. Psychology department has done well to have counseling sessions with these students and University Health centre has similarly arranged camps for their medical check-up.

A major weakness of these rural students from the above backward areas is that they are shy and cannot express themselves (especially in English) properly. Therefore, extra classes were arranged to train the students in communication and soft skills such as English reading/speaking/writing, group discussion, preparing curriculum vitae, facing interviews etc. to enable them to compete with the urban students at the National and International levels. A language laboratory has been set up at Talwandi Sabo campus. Every Neighbourhood campus will have one such laboratory.

**The Prime Minister of India, Dr. Manmohan Singh, has an exemplary vision. In appreciation of the efforts of Punjabi University (to impart technical and professional education to rural students by setting up Neighbourhood Campuses in**

**the rural area itself) he sanctioned a special grant of Rs. 10 crores to Punjabi University. The University has received this grant from the Planning Commission of India through the Government of Punjab.**

**(c) Expansion of Technical Education and Professional Courses:**

The courses of study chosen for these **Neighbourhood Campuses** are career- and market-oriented and skill enhancing so that the passing-out students can be absorbed in service, industry and self-employment sectors.

The curriculum has been designed and would be updated frequently as per the changing needs of the industry and technology advancement. There is a scope of flexibility in the curriculum for providing inter-disciplinary approach.

More technical and profession courses such as B.Tech. (Computer Science and Engineering), B.Tech. (Electronics and Communications), M.Sc. (I.T), M.B.A, B.C.A etc will be started in all these Neighbourhood Campuses during the next few years.

**(d) Optimum Utilisation of the available Infrastructure:**

One of the challenges before the nation is to meet the diametrically opposite demands of quality education and increasing number of students aspiring for higher education. Most of the educational institutions of the region lack properly qualified faculty and appropriate equipment in the laboratories as a result there is deterioration in quality of education especially in technical and science disciplines. The University, therefore, receives every year applications for admission which are generally 15 times more than the sanctioned seats in most disciplines. In view of the fact that the educated human resource having the latest knowledge and skill will be in great demand for participation in the social and economic development of the country, the University decided to use its potential for enriching the aspiring students with quality education in the state of Punjab. Therefore, the intake in the most sought after disciplines (Chemistry, Botany, Zoology, Bio-Technology, Microbial and Food Technology, Computer Science,

Psychology etc.) was doubled during the current academic session. The tuition fee and other charges, however, were retained the same as in the previous years.

**(e) Research Activities:**

The University has made ardent efforts to promote research in its all departments. It was noticed that all faculty is involved individually in research and producing good work as is evident from the published research papers. However, there was a need of concerted efforts by the departments as a whole to work for the grant of a special status by UGC (SAP, ASIHSS, ASIST), DST (FIST) etc. It was, therefore, decided to persuade (i) the faculty to submit individual research projects for grants to various funding agencies and (ii) the Heads of the Departments to submit the Departmental profiles for the grant of SAP and FIST. As a result the following departments of the University were awarded SAP/FIST in addition to the sanction of a large number of research projects with liberal grants during the current academic year:

- 1. Department of Chemistry received an assistance of (at the level of DRS-I) Rs. 42 lacs under SAP (UGC).**
- 2. The Department of Bio-Technology has been recently awarded DST-FIST status with a grant of Rs. 35 lacs.**
- 3. UGC awarded SAP (DRS-I) and Rs. 34.70 lacs + 2 project fellows on actual basis to the department of Zoology.**
- 4. The Department of Computer Science has been recently awarded DST-FIST status with a grant of Rs. 25 lacs.**

A few more departments also applied to UGC/DST for grants under SAP/FIST but could not be successful during the current year. The Research Projects of many University teachers have already been approved for grants during this year and many more are waiting for the award of their Research Projects from UGC, CSIR, DST, ICAR, AEC, etc.

UGC has sanctioned South West Asia Study (SWAS) Centre with annual grant of Rs. 1.00 lac and full pay of one Project Associate. This grant for five year (2007-2012) would be around (Rs. 12 Lacs). The centre would initially concentrate on study of

Pakistan and Afgansitan and later on Iran and Iraq would be included in this list. This would be an inter disciplinary research centre. The project has the provision of extension for another five years after the evaluation of five years work.

In April 2004, the Chief Minister of Punjab (India) made an announcement at Lahore that a World Punjabi Centre would be established at Punjabi University Patiala. The centre would function as an international form for the Punjabi speaking people. Later on at the time of World Punjabi Conference in December 2004, the foundation stone of the World Punjabi Centre was laid by the then Chief Ministers of Punjab, (India and Pakistan), namely Captain Amarinder Singh and Chaudhary Pervez Illahi respectively, on the campus of Punjabi University. Punjab government has already provided two crores of rupees as an endowment grant for the Centre. Another three crore rupees for constructing suitable building for the Centre has also been allocated by Punjab Government in its annual budget for the year 2007-2008. The land for the building of the centre has been provided by Punjabi University.

The objectives of the World Punjabi Centre were carefully formulated in 2005-06 and it was decided that it should function as an autonomous institution, linked closely with the Punjabi University. The Vice-Chancellor of the University provides the necessary link as ex-officio Chairman of the Executive Council of the World Punjabi Centre established by the World Punjabi Centre Society. The Society was registered in December 2006 under the Societies Registration Act 1861. The Chief Minister of Punjab (India) is the ex-officio Chairman of the governing council of the society.

## **Part B:**

### **1. Activities reflecting the goals and objectives of the institution:**

Punjabi University was established on 30th April, 1962 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 higher education and research.

In order to achieve its objectives, the University took the following initiatives during the current academic year:

- a. The development of any region in the real sense lies in the development of the people of the region. It has been recognized since long, as a result the University over the time has evolved into a multi-faceted and multi-faculty educational institution with over fifty five teaching and research departments covering disciplines in Humanities, Arts and Sciences, and as diverse as Fine Arts, Biotechnology, Forensic Science and Space Physics. This year the University has undertaken a formidable task, in its own humble way to take higher education to the door-step of ruralites in Punjab. The details are discussed above.
- b. An Advance Centre for technical Development of Punjabi Languages, Literature and Culture has been established on Punjabi University, Campus. The Centre has received research grants of a little over Rs. 70 lacs from different funding agencies including a generous grant by the Member Parliament, Patiala, Maharani Preneet Kaur. The objective of the centre is to give fillip to research in the development of Punjabi Language, expand the network of Punjabi usage, make available e-learning of Punjabi Language globally and help overcome the limitation imposed by differing scripts [Gurmukhi (Punjabi Script) and Shahmukhi (Urdu Script)]. The most important achievement of this centre is the development of a Gurmukhi into Shahmukhi transliteration software. The software named

'Sangam' can be used to convert any Gurmukhi script into Shahmukhi. In another significant development, the University has also started work to prepare a software programme to transliterate Shahmukhi into Gurmukhi. Both these softwares would make the transliteration of writings from Gurmukhi into Shahmukhi and vice-versa just a click of the mouse away. This would enrich the quality of Punjabi literature, language and culture besides enhancing the level of understanding between of the two Punjabs and also the Punjabi Diaspora.

A **website for online teaching of Punjabi** has also been developed by the centre. The website would fulfill the long pending need of Punjabi Diaspora for learning Punjabi on internet while sitting in their homes far away from Punjab.

- c. The Sikhs have their own encyclopaedia, **Gurshabad Ratnakar Mahan Kosh**, since 1926 (published in 1930), prepared by the most erudite Sikh Scholar **Bhai Kahn Singh Nabha**. It was visualized as the Encyclopaedia of Sikh Literature and comprises the exposition of 64,263 terms from all fields of knowledge, i.e., Sikh Philosophy, History, Culture, Literature and Language. The encyclopaedia was at No. 12 amongst World encyclopaedias of literature. However, because of its Gurmukhi script it could not reach the non-Punjabi world, either within or outside India. Punjabi University, under the visionary leadership of its Vice-Chancellor, S. Swarn Singh Boparai, decided to make this great treasure-trove available to the larger audience including the Punjabi Diaspora. As such, the work of its translation into English has been undertaken on top priority. **The first volume (of the four volumes) was completed in a record time of 2 years and was released by the Hon'ble Chief Minister of Punjab, Captain Amrinder Singh on 30<sup>th</sup> November 2006, who also gave a government grant for the purpose.**
- d. It may be of interest to note that the thrust area of Punjabi Department under SAP has been '**Resource Material Production in Punjabi Language, Literature and Culture**'. The department has also taken a giant leap forward by establishing a

**Centre for Diaspora Studies of Punjabi Language, Literature and Culture**  
under ASIHSS (UGC).

- e. Punjabi University is the first University in the world to grant academic status to Sikh Musicology by starting two new departments; Department of Gurmat Sangeet and Gurmat Sangeet Chair. To run these activities, a four-storey Gurmat Sangeet Bhawan worth Rs. 2.50 Crore is being constructed by the financial aid from Punjabi community all over the world. Department of Gurmat Sangeet is a teaching department so has undertaken the task of under-graduate & post-graduate teaching of Gurmat Sangeet.

Gurmat Sangeet Chair is another independent department for research, preservation and propagation of different Punjabi musical traditions with special emphasizes to Gurmat Sangeet. For this purpose, Sant Sucha Singh Archives of Music an Archival Wing of Gurmat Sangeet Chair is being established in which the recordings of Classical music, Folk music, Sufi music and Gurmat Sangeet are being preserved in the manner of audio-visual publications. The following audio-visual publication are presented during the current year.

1. Partal Gayaki - A recording of 55 Compositions by Various Keertankars
2. Interview Recording of Keertankars for Sant Sucha Singh Archives of Music

To acquaint and equip the next generation about the Gurmat Sangeet Traditions, an open Gurmat Sangeet Competition has been started by Gurmat Sangeet Chair. For this purpose, an amount of Rs. 49,800/- and Rs. 2,18,000/- has been raised by Gurmat Sangeet Chair and Centurion Bank of Punjab respectively.

A set of four CDs have been prepared which includes the performance of about 100 folk singers and the famous Musical cults (SANGEET GHARANAS) of Punjab. These CDs cover the following aspects:

1. Punjabi Folk Songs sung in the traditional ancient way.
2. Ancient Musical Instruments which were used to sing the Punjabi Folk Songs at that time.
3. Presentation of Punjab Folk Stories (LOK GATHAWAN) in different musical patterns (SHELLIES).
4. Gurbani Keertan (GURBANI SANGAT GAYAN)

These CDs are also preserved at Sant Sucha Singh Music Archives.

- f. Translation of Nobel Prize winning books into Punjabi (Gurmukhi script) has been another landmark project which is progressing well (works of four such authors have been published and six are in press). The venture would enable Punjabis to keep themselves abreast of the great creations by the Nobel Laureates.
- g. The University has also undertaken projects to prepare subject-specific dictionaries in various disciplines of Social Sciences, Sciences, Commerce and Business Management etc. so that the comprehension of these subjects is made simpler.
- h. To share and enhance the understanding of various aspects of Punjab, Punjabi and Punjabiat, a project entitled 'The Punjab' is also under preparation.
- i. For the benefit of rural children Department of Development of Punjabi Language (DPD) has taken up a major project 'BAL VISHAV KOSH' in four volumes. This is a children encyclopaedia in Punjabi comprising of different subjects of knowledge. Thirty three eminent scholars are working hard on this project and one of its volumes is set to published very soon.

- j. To preserve the rich nuances of Punjabi words, idioms and phrases and to adopt new vocabulary entering into Punjabi language from various sources, the University has planned preparation of Punjabi Kosh.
- k. Hosting of International Punjabi Development Conference has been an annual feature of the Department of Development of Punjabi Language (DPD) since 1982. The conference serves as a platform to discuss issues related to Punjabi society, history, culture, literature and language and pave the way for the contemporary issues and futuristic vision. 21st International Punjabi Development Conference (1-3 Feb, 2006) was organized on 'PUNJABI DIASPORA'. The Punjabi fraternity from different parts of the world specially from Pakistan, USA, Canada and U.K. discussed the challenges in different frontier areas to steer the fast growing needs of the present day Punjabi society. The 22nd International Punjabi Development conference (14-16 December, 2006) was dedicated to the Quadra centenary of Guru Arjan Dev's martyrdom. Its theme was 'GURU ARJAN AND HIS TIMES'.
- l. The Department of Development of Punjabi Language publishes four journals for imparting latest knowledge and trends of research in different subjects. The 43rd issue of 'VIGYAN DE NAKSH' a journal of scientific studies was visualized as Khetibaari Vishesh Ank, a special issue on agriculture. The 54th issue of 'SAMAJIK VIGYAN PATAR' a journal of social sciences was edited as a special issue on the concept of Shahadat from historical point of view. "PUNJABI UNIVERSITY SABHYACHAR PATRIKA", was conceived to consolidate research in different domains of Punjabi Literature & culture. Its 3rd issue was visualized as a special issue on Punjabi Folklore & Folkloristic. The fourth journal SAHITYA MARG of DPD transliterates Punjabi Literature into Devnagri script for the usage of the readers non-familiar with Gurumukhi script. Its 20th Issue was published in December 2006.
- m. To implement the constitutional obligation of Punjabi University, i.e., the advancement of Punjabi studies, Development of Punjabi Language as a medium

of instruction and examination, the DPD prepares text books and general books in social sciences. On the recommendations of Undergraduate and Postgraduate Board of studies 70 books have been prepared and published according to upgraded syllabi during the current year.

- n. To make addition in Punjabi vocabulary and for comparative research of Punjabi-Sanskrit vocabulary Punjabi-Sanskrit Kosh is being prepared.

## 2. New academic programmes initiated (UG and PG):

- (a) The following new programmes were started during the academic year 2006 - 07:

<b>Biotechnology</b>	Post Graduate Diploma in Bio-informatics
<b>College of Engineering Neighbourhood Campus, Rampura Phul</b>	(i) MCA (ii) B.Tech (Electronics and Communication Engineering). (iii) B.Tech (Computer Engineering)
<b>Computer Science</b>	M.Tech. (Internet Communication Technology)
<b>Correspondence courses</b>	<b>Under Graduation Courses:</b> (i) Certificate Course in French (CCF) (ii) Certificate Course in German (CCG) (iii) Certificate Course in Spoken English (iv) Gurmat Sangeet Parveshka (v) Diploma in Gurmat Sangeet  <b>Post graduation Courses:</b> (i) M.A. (Women Studies) (ii) PGDCA (iii) PG Diploma in Forensic Science
<b>Dance</b>	B.A. (Hons. School) in Dance.

<b>Department of foreign languages</b>	Certificate Course in Spanish (in principle).
<b>Gurmat Sangeet</b>	Gurmat Sangeet is included as an optional subject at under-graduate level from 2006.
<b>Guru Gobind Singh Religious Studies.</b>	M.A. (Budhist Studies)
<b>Guru Kashi Campus Talwandi Sabo:</b>	MBA five Year Integrated Course.
<b>History</b>	Semester System introduced for B.A. (Honours)
<b>Nawab Sher Mohammad Khan Institute of Advanced Studies in Urdu, Persian, and Arabic (Malerkotla):</b>	Certificate Course in Computer Applications
<b>Philosophy</b>	PG Level Courses (i) Philosophy of Culture (ii) Applied Philosophy
<b>Physical Education</b>	Diploma courses in Human Consciousness and Yogic Science.
<b>Punjabi</b>	B.A. (Hons. School) Punjabi Parveshka.
<b>Punjabi University Baba Dhian Dass Neighbourhood Campus, Jhunir (Mansa).</b>	(i) M.Sc. (IT).

<b>Punjabi University Guru Kashi College, Talwandi Sabo</b>	(i) B.Sc. Biotechnology (ii) B.C.A. (iii) P.G. Diploma in Computer Maintenance and Networking. (iv) Psychology is to be introduced in B.A.
<b>Punjabi University Jogi Peer Neighbourhood Campus, Rallha (Mansa)</b>	(i) B.C.A. (ii) M.Sc. (IT)
<b>Sanskrit</b>	UG- PG Bridge Course for those students who have not opted Sanskrit subject in the UG course.
<b>University College, Punjabi University, Neighbourhood Campus, Rampura Phul</b>	(i) Psychology subject is to be introduced in B.A.

(b) **In view of tremendous rush for admission in various courses and to make full use of the infrastructural facilities available in various University departments, additional sections in the following courses were opened by doubling the intake of the students:**

- |                            |                                     |
|----------------------------|-------------------------------------|
| 1. M.Sc. (Chemistry)       | 2. M.Sc. (Microbial and Food Tech.) |
| 3. M.Sc. (Botany)          | 4. M.Sc. ( Zoology)                 |
| 5. M.Sc. (Human Biology)   | 6. M.B.A.                           |
| 7. Pharmaceutical Sciences | 8. M.Sc. (Biotechnology)            |
| 9. M.Sc. (Math)            | 10. M.Sc. Psychology                |

### 3. Innovations in curricular design and transaction:

As per University rules there must be regular meetings of both the Undergraduate and Postgraduate boards of studies. The syllabi are thus revised every third year of each class keeping in view the emerging trends in the subjects and the UGC guidelines (if any). The steps taken during the current year are summarized below:

<b>Biotechnology</b>	<ul style="list-style-type: none"> <li>(a) Various new age techniques are added in the curriculum like LCD projectors etc.</li> <li>(b) Syllabus is continuously upgraded every three years to accommodate the new research happening in the respective areas.</li> <li>(c) Students are encouraged to develop their confidence and presentation styles by regularly conducting student seminars in each class.</li> <li>(d) Syllabi prepared for B.Sc/MSc Bioinformatics.</li> <li>(e) Industrial visits and Institute/Industrial training to Students introduced.</li> </ul>
<b>Botany</b>	Revised the syllabi curriculum of M.Sc.-II and introduced recent topics pertaining to Genetic Engineering and Biotechnology, Plant Utilization, Plant Cell and Tissue Culture and Plant Diversity and Conservation. Introduced teaching through L.C.D. Projector.
<b>Business Administration</b>	<ul style="list-style-type: none"> <li>(a) Designed Ordinances, Scheme &amp; Syllabi for MBA five year Integrated Course.</li> <li>(b) Curriculum has been revised as per the U.G.C guidelines. Group discussions and case studies have been introduced in the course.</li> </ul>
<b>Chemistry</b>	Updated both the UG and PG syllabi in the meetings of Board of Studies.
<b>Commerce</b>	Syllabus of B.Com, M.Com. & M.F.C. revised.
<b>Defence &amp; Strategic Studies:</b>	Syllabus updated as per UGC guidelines
<b>Economics</b>	Syllabi of M.A., MBE and B.Sc. (Honours School) updated recently on UGC Pattern with the introduction of internal assessment, case studies and seminars

<b>Education</b>	Minor changes in syllabi of M.A. (Education), B.Ed. and M.Ed. classes.
<b>Engineering Faculty</b>	(a) Syllabi for B.Tech. and M.Tech. revised for 2006-07 Session. (b) Syllabus for CCA designed. (c) Revised UG scheme and framed syllabi for the same. (d) Syllabus designed to meet the industry requirements and to build strong theoretical background of Computer Science students.
<b>English</b>	UG & PG syllabi updated
<b>Forensic Science</b>	Syllabi have been upgraded keeping in mind the needs of the hour.
<b>Geography</b>	The Under Graduate and Post Graduate Syllabi has been changed and updated conforming to UGC NET.
<b>Hindi</b>	The UG and PG. syllabi has been changed and modified as required by the U.G.C.
<b>History</b>	Prepared B.A. History Honours syllabus and M.A. Syllabus updated conforming to UGC NET
<b>Law</b>	Syllabi of LL.B & LL.M are revised.
<b>Library &amp; Information Science</b>	Syllabi for MLISc and BLISc courses were fine-tuned according to UGC Model Curriculum and papers on IT were introduced in both courses.
<b>Linguistics &amp; Punjabi Lexicography</b>	Added Emphasis on applied aspects
<b>Mathematics</b>	Syllabus of all M.Sc. subjects was revised and new options were introduced as per the UGC guidelines.
<b>Music</b>	A special effort is being made to innovate different forms of music like classical music, folk music, gazal and geet etc.
<b>Pharmaceutical Sciences and Drug Research:</b>	Syllabus of B.Pharm. I and II semesters have been revised. New syllabus of B.Pharm. VII and VIII semesters have been designed and implemented

<b>Philosophy</b>	Practical introduced at UG Level.
<b>Physical Education</b>	Updated the syllabi as per the need and requirements of B.P.Ed. (one year), B.P.Ed. (Three year), M.P.Ed. (Two year) and Diploma courses in Human Consciousness and Yogic Science.
<b>Physics</b>	(a) Project work introduced in M.Sc. Applied Physics Part-II. (b) UG and PG syllabi updated besides the project work introduced in M.Sc. Applied Physics Part-II.
<b>Physiotherapy and Sports Science</b>	The syllabi were rationalized keeping in view the availability, expertise and aspiration of the teachers and students. The element of punctuality, discipline and timely completion of the allocated portion were made to reflect inherently in the time table formation and execution. Being a clinical course the conduction of classes of BPT were reoriented and extra emphasis on the practical and clinical classes were provided by rotational posting in the OPD services of the department .
<b>Psychology</b>	Syllabus updated for M.Sc. I, M.Sc. II and Post-Graduate Diploma in Counseling Psychology.
<b>Public Administration</b>	PG Syllabus has been restructured.
<b>Punjabi</b>	Curriculum has been redesigned according to the needs and challenges of the new era.
<b>Sanskrit</b>	UG and PG syllabus updated.
<b>Sociology</b>	(a) Updated post-and under-graduate courses in the light of UGC curricula guidelines. (b) Introduced field work and report writing in all the papers in all the four semesters at PG level. (c) Introduced field work and report writing at under graduate level too in B.A. III.
<b>Statistics</b>	Computer papers added in M.Sc. Part I & II syllabi
<b>Theatre and Television</b>	The Curriculum includes major component of electronic medium and syllabus has been restructured to update it according to latest production and acting techniques.

## **4. Inter-disciplinary programmes started:**

- (a) **The University took the following steps to encourage the students to expand their wings in the ocean of knowledge:**
- 1. In Punjab there are many colleges (especially the rural colleges) where only a few subjects are taught in undergraduate courses (B.A.). The students, therefore, have a very limited choice and can not study the subjects like Geography, Psychology, Philosophy, Sociology, Sanskrit etc. The University has, therefore, allowed such students to pursue their postgraduation studies in any subject of their choice irrespective of the fact whether they have studied the subject during their graduation degree or not. The admission, of course, is made on the basis of the marks obtained in graduation and the student has to complete successfully the bridge courses.**
  - 2. In all the postgraduation courses there are four theory papers in each semester. The University allows the students to select three papers of his/her choice from the curriculum of the subject in which he/she is pursuing the postgraduation and the fourth paper from any allied subject of his/her choice.**
  - 3. The students at Punjabi University, Patiala, can pursue the higher studies leading to M.Phil. and Ph.D. degrees not only in the subject in which they have completed their postgraduation but also in any allied subject of their choice.**
  - 4. The University has appointed Professor J.S. Grewal, an eminent Historian and former Vice-Chancellor, Guru Nanak Dev University, Amritsar visiting Professor, to deliver lectures on the emerging inter-disciplinary topics. It has given a great impetus to the inter-disciplinary research in the University.**
  - 5. Keeping in view the importance of Sanskrit Language and its relation to other Indian Languages Sanskrit is introduced in Punjabi Honours.**
- (b) **A few inter-disciplinary courses such as Masters programmes in Astronomy and Space Science, Business Economics, Linguistics, Forensic Science, Human Biology etc. and PG Diploma in Bio-informatics are already running in the University.**

**In addition to these, the following courses were started from the current year:**

<b>Physical Education</b>	Syllabus for M.P.Ed. is being designed in such a way that it needs continuous participation of experts from other allied departments such as Psychology, Sports Science and Physiotherapy, Human Biology and Department of sports.
<b>Shri Guru Gobind Singh Department of Religious Studies</b>	M.A. in all religious traditions is proposed to start.
<b>Department of Correspondence Courses</b>	M.A. in Women Studies and Diploma in Translation.
<b>University College of Engineering</b>	Introduced infosys soft skills and infosys campus connect.
<b>Gurmat Sangeet</b>	(a) Gurmat Sangeet has also been introduced as a part of syllabus in M.A. (Sikh Studies) as well as at under-graduate level. (b) Gurmat Sangeet included in M.A. (Music - Vocal & Instrumental ) covering 1/3 portion of syllabus.
<b>Theatre and Television</b>	Included all art forms, literature, music, dance and fine arts as essential part of Syllabi.

## **5. Examination reforms implemented:**

To improve the efficiency in examination branch, a mix of following steps have been undertaken:

- (a) Computerization of results,
- (b) Redeployment of space,
- (c) Redeployment of personnel and
- (d) Restructuring of evaluation methodology

As a consequence, there has been a substantial saving in man-days of candidates and availability of these for higher studies as well as employment. All results relating to affiliated colleges were made available on universitypunjabi.org site for internet connectivity.

To be more specific, the details of changes vis-à-vis the past practices are given below:

	<b>Current Practice</b>	<b>Past Practice</b>
<b>Computerization of cut lists</b>	Cut list of all classes was computerized in the examination branch.	Except for B.A. part-I, cut list of all other classes was prepared on type writer on payment basis.
<b>Computerization of results and result cards</b>	<p>(a) Awards are fed directly from answer-books to the computer memory for most of the classes.</p> <p>(b) Computerized output is verified from award lists and wherever discrepancy arose, it is authenticated from answer-books by a senior designated officer.</p> <p>(c) Preparation of result cards for all classes have been computerized.</p>	<p>Awards of B.A. –I were computerized that too from award lists. For other classes, it was manually done from award lists. This left ample scope for manipulation as answer-books were consulted only at the time of rechecking or re-evaluation.</p> <p>Only of B.A. I class.</p>
<b>Eligibility</b>	Eligibility of the candidate is verified before issuing of roll numbers.	Eligibility was verified after roll numbers were sent to the candidates. This practice led to a lot of litigation.
<b>Evaluation Method</b>	<p>(a) The answer-books from examination centres are collected on daily basis.</p> <p>(b) After stapling these</p>	<p>(a) On every fourth day.</p> <p>(b) These were dispatched to</p>

	<p>are dispatched from fourth day onwards to evaluators or evaluation centres.</p> <p>(c) Monitoring on telephone of evaluation progress is a regular feature.</p> <p>(d) 100 percent stapling is done to conceal the identity of candidates. For stapling and un-stapling work daily-wage workers are hired.</p> <p>(e) Fictitious roll numbers are allotted by evaluators.</p> <p>(f) De-coding is done as a part of the work by redeploying personnel from other Sections of the Examination Branch and during overtime hours by the staff of the Examination Branch and other branches.</p> <p>(g) Spot evaluation of master's classes by University staff is done at the University Campus evaluation centre.</p> <p>(h) College lecturers from all across the affiliated colleges are involved through respective College Principals in evaluation work of B.A. Part –I class.</p>	<p>evaluation centres generally after a fortnight or a month.</p> <p>(c) No such practice was observed.</p> <p>(d) It was done for selective papers of few classes.</p> <p>(e) Fictitious roll numbers were allotted by Secrecy Branch.</p> <p>(f) Decoding was done on payment basis.</p>
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	(i) All results where candidates came from affiliated colleges are put on the universitypunjabi.org web site for internet connectivity.	
<b>Redeployment of staff</b>	Realizing the seasonality character of the examination work, personnel working in sections having slack season are temporarily transferred to sections having peak work load and vice-versa. Apart from this, shifting of staff from one section to another has also been done.	No such practice was observed.
<b>Redeployment of space</b>	Temporary as well as permanent shifting of staff from different locations has been done to create space for computer lab at the top floor and space for specific time-bound activities.	
<b>Evaluation Payments</b>	An effort is made to make cash payments to evaluators on the spot.	It was made through cheques after a lag of months.

## 6. Candidates who qualified NET/SLET/GATE etc:

The result of NET and GATE are declared after the students left the University. Efforts were made to gather the information and are summarized below. However, the actual number of students who cleared these examinations is much more.

<b>Department</b>	<b>NET</b>	<b>GATE</b>
<b>Biotechnology</b>	02	-
<b>Botany</b>	02	-
<b>Chemistry</b>	08	-
<b>Defence &amp; Strategic Studies</b>	02	-
<b>Economics</b>	03	-
<b>Education</b>	04	-
<b>Fine Arts</b>	07	-
<b>Geography</b>	01	-
<b>History</b>	02	-
<b>Indian Administration Services Training Centre</b>	02	-
<b>Journalism and Mass Communication</b>	02	-
<b>Law</b>	04	-
<b>Library &amp; Information Science</b>	02	-
<b>Linguistics &amp; Punjabi Lexicography</b>	04	-
<b>Mathematics</b>	04	-
<b>Music</b>	03	-
<b>Pharmaceutical Sciences and Drug Research</b>	-	16
<b>Physical Education</b>	04	-
<b>Physics</b>	02	-
<b>Political Science</b>	10	-
<b>Psychology</b>	04	-

<b>Public Administration</b>	01	-
<b>Punjabi</b>	05	-
<b>Sanskrit</b>	01	-
<b>Shri Guru Gobind Singh Department of Religious Studies</b>	08	
<b>Sociology and Social Anthropology</b>	01	-
<b>Theatre and Television</b>	05	-

## 7. Initiatives towards faculty development programme:

The University has a policy to encourage the teachers to improve their qualifications. The teachers who are not Ph.D. are motivated to complete their Ph.D. by sanctioning them leave. The teachers with Ph.D. are given full pay leave to do their post-doctoral work in advanced countries and laboratories of repute. As a result every year several teachers visit foreign countries either as post-doctoral fellows or as visiting fellows.

In addition, the teachers are encouraged to attend refresher courses, orientation courses and workshops being arranged in their respective field of specialization. The department-wise details of the teachers who attended such courses are given below:

<b>Department</b>	<b>Orientation courses</b>	<b>Refresher Courses</b>	<b>Workshops</b>
<b>Biotechnology</b>	-	-	02
<b>Botany</b>	01	-	-
<b>Chemistry</b>	01	-	-
<b>Commerce</b>		01	-
<b>Computer Science</b>	-	05	-

<b>Correspondence Courses</b>	-	-	05
<b>Dance</b>	03	-	-
<b>Defence &amp; Strategic Studies</b>	01	-	-
<b>Department of Encyclopaedia of Sikhism</b>	02	-	01
<b>Forensic Science</b>	-	01	
<b>History</b>	01	01	-
<b>Law</b>	01	-	-
<b>Library &amp; Information Science</b>			01
<b>Linguistics &amp; Punjabi Lexicography</b>	-	-	03
<b>Mathematics</b>	04	01	-
<b>Pharmaceutical Sciences and Drug Research</b>	05	03	-
<b>Philosophy</b>	02	-	-
<b>Physiotherapy and Sports Science</b>	-	-	02
<b>Psychology</b>	01	01	-
<b>Public Administration</b>	01	-	-
<b>Punjab Literary Study</b>	01	-	-
<b>Punjabi</b>	-	02	03
<b>Sanskrit</b>	-	01	-

<b>Shri Guru Gobind Singh Department of Religious Studies</b>	02	01	-
<b>Statistics</b>		01	-
<b>Theatre and Television</b>	-	01	03
<b>University College of Engineering</b>	02	01	-
<b>Yadawindera College of Engineering, Talwandi Sabo:</b>	-	04	-

## 8. Total number of seminars/workshops conducted:

The details of the seminars/workshops conducted by the University during the current year are given below:

<b>Department</b>	<b>Seminar</b>	<b>Workshop</b>
<b>Biotechnology</b>	01	02
<b>Botany</b>	02	-
<b>Computer Science</b>	01	-
<b>Correspondence Courses</b>	03	01
<b>Department of Encyclopaedia of Sikhism</b>	01	-
<b>Department of Development of Punjabi language</b>	8	-
<b>Economics</b>	01	01
<b>Education</b>	01	01

<b>English</b>	01	-
<b>Fine Arts</b>	02	02
<b>Forensic Science</b>	01	-
<b>Gurmat Sangeet</b>	02	01
<b>Gurmat Chair</b>	01	-
<b>Hindi</b>	01	03
<b>History</b>	01	-
<b>Journalism and Mass Communication</b>	10	-
<b>Law</b>	03	-
<b>Library &amp; Information Science</b>	01	-
<b>Maharishi Valmiki Chair</b>	01	-
<b>Music</b>	-	01
<b>Physical Education</b>	01	-
<b>Physics</b>	01	01
<b>Physiotherapy and Sports Science</b>	01	-
<b>Psychology</b>	-	05
<b>Public Administration</b>	01	-
<b>Punjab Historical Studies</b>	02	-
<b>Punjabi</b>	16	01

<b>Punjabi Literary Studies</b>	2	-
<b>Sanskrit</b>	01	-
<b>Shri Guru Gobind Singh Department of Religious Studies</b>	03	-
<b>Shri Guru Granth Sahib Research Department</b>	03	-
<b>Social Work</b>	02	02
<b>Theatre and Television</b>	01	03
<b>Zoology</b>	01	-

## 9. Research projects :

All the University teachers are actively involved in research in the fields of their respective specializations. The University motivates the teachers by honouring them with even cash awards who bring funded Research Projects from various National/ International Funding agencies. At present, work on the following projects is in progress:

<b>Department</b>	<b>Projects Name</b>
<b>Biotechnology</b>	(a) Correlation of hyperglycemia and immune response and disease modification through immunological interventions by Plant extract. (b) Characterization of immunomodulatory potential of probiotic and its application as therapeutic agent. (c) Molecular detection of virulent and non virulent strains of <i>Staphylococcus aureus</i> in hospitals. (d) Characterization of immunomodulatory potential of beta-glucon and its application as immunotherapeutic agent. (e) Molecular mechanism of immunomodulation by <i>Withania Somnifera</i> in the development of therapeutics. (f) Characterization of immunomodulatory anticarcinogenic and phytotherapeutic potential of <i>ziziphus mairtiana</i> (Lamk.) fruit.

	<p>(g) Synbiotic effect of <i>Streptococcus thermophilus</i> and fructooligosaccharides on systemic immune response and its immunotherapeutic potential in swiss albino.</p> <p>(h) Characterization of immunomodulatory potential of microbially transformed conjugated linoleic acid and its application.</p> <p>(i) Molecular typing of various Biotypes of <i>Lactobacillus acidophilus</i>.</p> <p>(j) Studies on tumor targeted delivery of polyethylene glycol conjugated D-amino acid oxidase from <i>Trigonopsis variabilis</i> as reactive oxygen Species generating enzyme in cancer therapy.</p> <p>(k) Production of L-Asparaginase by recombinant E. coli and Development of Biosensor for monitoring Asparagine in Leukemia Cells and solid tumors.</p> <p>(l) Studies on Structural and Computational Biology of Pharmacophore, Insulin and Receptors for Drug Design and its validation in Type-II Diabetes.</p> <p>(m) Studies on genetic biochemical characterization and analysis of quercetin marker in <i>Tribulus terrestris</i>.</p> <p>(n) SPME-HPLC FOR analysis of toxic heavy metal ions.</p> <p>(o) Arginase Biosensor</p> <p>(p) Interaction of LXR variants with select SNPs of ABCA1, LCAT and ACAT2 genes in CAD patients using cell based Assay.</p> <p>(q) Interaction of Niemann-Pick C1 like 1 and ApolipoproteinE genes amongst CAD patients with NPC1L1 as target for in vitro therapeutic RNAi.</p> <p>(r) Development and application of expression vector based on Ped+ plasmid of <i>Pediococcus acidilactici</i> MTCC 5101.</p> <p>(s) Development of protease-deficient strain of <i>Schizosaccharomyces pombe</i> through gene silencing approach.</p> <p>(t) Production and downstream processing of pullulan for the preparation of maltotriose syrup using pullulanase.</p> <p>(u) Lipase mediated kinetic resolution of (RS)-1-chloro-(3,4 difluorophenoxy)-2- propanol to enantiomerically pure (S)-alcohol for the synthesis of Lubelozole drug.</p> <p>(v) Development of coat protein mediated transgenic resistance in groundnut against <i>Tobacco streak virus</i>.</p> <p>(w) Purification, characterization and evaluation of a microbial lectin for therapeutic potential</p> <p>(x) Fermentative Production of Gluconic acid from <i>Aspergillus niger</i> isolate at pilot scale.</p> <p>(y) Screening, characterization and determination of secondary structure of a novel rhamnosidase.</p> <p>(z) Metagenomic identification of novel Halotolerance genes and Evaluation of their Biotechnological potential.</p>
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	<ul style="list-style-type: none"> <li>(aa) Three dimensional structural characterization and computational analysis of a mouse macrophage protein.</li> <li>(ab) Molecular characterization of a therapeutic protein from <i>Momordica sp.</i></li> <li>(ac) Development of Enzyme and Microbial based Biosensors for Monitoring Urea in Synthetic Milk.</li> <li>(ad) Agrowaste Utilization: Biotechnological Approaches to conversion of mushroom processing waste into essential amino acids.</li> <li>(ae) Treatment of textile bleaching effluent by fungal and bacterial catalases.</li> <li>(af) Utilization of dairy industry waste for lactic acid production.</li> <li>(ag) Potential of <i>Lactococcus lactis subspp lactis</i> MTCC 3041 as a biopreservative.</li> <li>(ah) Utilization of whey for SCP production.</li> <li>(ai) Abiotic stress and bacteriocin production by <i>Lactococcus lactis subspp lactis</i> MTCC 3041</li> <li>(aj) Survival of probiotic microbe <i>Lactobacillus plantarum</i> MTCC 1407 under <i>invitro</i> stress conditions</li> </ul>
<b>Botany</b>	<ul style="list-style-type: none"> <li>(a) Evaluation of Cyanobacterial Strains from Paddy Fields for Pesticide Degradation.</li> <li>(b) Screening Cataloguing and Conservation of Punjab Mushrooms and their Exploration for Utilization in Human Welfare.</li> <li>(c) A Search for Cyanobacterial Strains Producing Novel Exopolysaccharides (collaboration with IHBT, Palampur).</li> <li>(d) Brassinostreiods Mediated Biochemical and Molecular Responses in Wheat and Maize under Pesticide and Salt Stress (Collaboration with GNDU, Amritsar).</li> <li>(e) Investigations Related to the Effect of Temperature and Growth Regulator on Active Biochemical Constituents in Aloe Vera and Asparagus Species from North-West India.</li> <li>(f) Exploration and Evaluation of Genetic and Species Diversity of the Flowering Plants of cold Deserts of Lahaul and Spiti.</li> </ul>
<b>Chemistry</b>	<ul style="list-style-type: none"> <li>(a) Solid Phase Microextraction -HPLC: A New Technology; Application to Analysis of Toxic Metals.</li> <li>(b) Solid Phase Microextraction-HPLC: A Novel Technique; Application to Analysis of Explosives.</li> <li>(c) Solid phase extraction and HPLC-UV: Determination of Algal Toxins.</li> <li>(d) Synthesis of Novel Heterocycles of Biological Significance and New Synthetic Methods.</li> <li>(e) Stereospecific Synthesis of Some Nitrogen Heterocycles and New Synthetic Methods.</li> <li>(f) Photochemical H-abstractions in Some Dialkoxyanthraquinones.</li> </ul>

	<p>(g) Synthesis of Functionalized Nano Scavengers for Preconcentration and Determination of Heavy toxic metal Ions from Environmental Samples.</p> <p>(h) Direct electrochemical Synthesis of Bismuth Compounds.</p>
<b>Computer Science</b>	<p>(a) Development of Robust Document Analysis and Recognition System for Printed Gurmukhi Script.</p> <p>(b) Shahmukhi to Gurmukhi Transliteration Solution.</p> <p>(c) Transliteration System from Urdu/Kashmri to Roman Script and reverse.</p> <p>(d) Development of Algorithms and Software Packages for 2-D and 3-D Contour Plotting Using Non-Linear Interpolation.</p> <p>(e) Development of Algorithms and Software Packages for Image Recognition with Special Applications to Character Recognition.</p> <p><b>Note:</b> Projects a, b and c are being jointly executed with Advanced Centre for Technical Development of Punjabi Language, Literature and Culture.</p>
<b>Department of Development of Punjabi Language</b>	<p><b>(a) Major Projects of the Department</b></p> <ol style="list-style-type: none"> <li>1. Encyclopaedia of Sikh Literature English Translation of Gurshabad Ratnakar Mahan Kosh by <b>Bhai Kahan Singh Nabha</b> (Vol.2,3 &amp; 4)</li> <li>2. Baal Vishav Kosh(Children Encyclopaedia) (In four Volumes)</li> <li>3. The Punjab (English &amp; Punjabi) (In four Volumes) <ol style="list-style-type: none"> <li>(i)The Punjab (Polity, Economy, Society and Religion)</li> <li>(ii)The Punjab (Language and Literature)</li> <li>(iii)The Punjab ( Arts)</li> <li>(iv)The Punjab (Folk Traditions)</li> </ol> </li> <li>4. History of Punjabi Literature(In English) (In five volumes)</li> <li>5. Punjab Media Survey</li> </ol> <p><b>(b) ਹਵਾਲਾ ਸਮੱਗਰੀ ਅਤੇ ਵਿਸ਼ਾ ਕੋਸ਼ (Subject Dictionaries)</b></p> <ol style="list-style-type: none"> <li>1. ਕੁਰਾਨ ਸ਼ਰੀਫ਼ ਸੰਦਰਭ ਕੋਸ਼ (Kuran Sharif Sandarbh Kosh)</li> <li>2. ਪੰਜਾਬੀ ਕਿੱਸਾਕਾਰ ਸੰਦਰਭ ਕੋਸ਼ (Punjabi Kissakar Sandarbh Kosh)</li> <li>3. ਪੰਜਾਬੀ ਵਾਰ-ਕਾਵਿ ਸੰਦਰਭ ਕੋਸ਼ (Punjabi War Kaw Sandarbh Kosh)</li> <li>4. ਪੰਜਾਬੀ ਗਜ਼ਲਕਾਰ ਸੰਦਰਭ ਕੋਸ਼ (Punjabi Gazalkar Sandarbh Kosh)</li> <li>5. ਭੂਗੋਲ ਦਾ ਵਿਸ਼ਾ ਕੋਸ਼ (Bhugol da Visha Kosh)</li> <li>6. ਗੁਰਮਤਿ ਸੰਗੀਤ ਸੰਦਰਭ ਕੋਸ਼ (Gurmat Sangeet Sandarbh Kosh)</li> </ol>

7. ਪੱਛਮੀ ਸਾਹਿਤ, ਸਿਧਾਂਤ, ਸੰਕਲਪਵਾਚੀ ਸ਼ਬਦਾਵਲੀ ਕੋਸ਼ (Pachami Sahit,Sidhant,Sankalvachi Sahabdavli Kosh)
8. ਪੰਜਾਬੀ ਨਾਵਲਕਾਰ ਸੰਦਰਭ ਕੋਸ਼(ਭਾਗ ਦੂਜਾ) (Punjabi Nawalkar Sandarbh Kosh-II)
9. ਪੰਜਾਬੀ ਸਵੈ ਜੀਵਨੀ ਸੰਦਰਭ ਕੋਸ਼ (Punjabi Swai Jeevni Sandarbh Kosh)
10. ਉਰਦੂ ਪੰਜਾਬੀ ਕੋਸ਼ (Urdu Punjabi Kosh)
11. ਰਾਜਨੀਤੀ ਵਿਗਿਆਨ ਵਿਸ਼ਾ ਕੋਸ਼ (Rajneeti Vigyan Visha Kosh)

**(c) ਅਨੁਵਾਦ/ਲਿਪੀਅੰਤਰ ਸਰੀਮ (Translation/Transliteration)**

**Translation from other Languages into Punjabi**

1. Selected poems by Octavio Paz
2. The Gentelman from San Fransisco by Ivan Alexeyvich Bunin
3. Waiting for Godot by Samuel Backet
4. Arrowsmith by Harry Sinclair
5. Beloved by Tony Morrison
6. The Good Earth by Pearl S.Buck
7. A House for Mr.Biswas by V.S.Naipal
8. Lord of the Flies by William Golding
9. The Peasants by Wladyslaw Stanislaw Rayment
10. Biography of Mahatma Gandhi by Romain Rolland
11. Herzog by Saul Bellow
12. Human Society in Ethics & Politics  
by Willan Russel
13. Pan by Knut Podersen Hamsun
14. Kyote by Yasunari Kawata
15. The man of Property  
by John Galsworthy
16. The Counter Feiters by Andre Paul  
Guillaume Gide
17. History of the English speaking people by Wiston Leonard  
Spencer Churchill
18. Blue Bird by Maurice Maeter linck
19. The Flounder by Guntter Grass
20. India Wins Freedom by Mr.Abul Klam Azad
21. Ethics of the Sikhs by Dr.Avtar Singh
22. Shivaji and His Times by J.N.Sarkar
23. Communalism and the writing of Indian History by Harbans  
Mukhia, Romila Thapar and Bipin Chandra
24. Economic History of India(1837-1900) by R.C.Dutt (Bharat da  
Aarthik Itihas)
25. Private Investment in India 1900-1939 by A.K.Bagchi
26. Revenue system in Post Maurya and Gupta  
Times by D.N.Jha
27. Administrarive System of the Marathas  
by S.N.Sain
28. Society at the Time of Budha by W.N.Wagle
29. Ashoka and the Decline of Mouryas  
by Romila Thapar

	<p>30. Provincial Government of the Mughals 1526-1658 by P. Saran</p> <p>31. Indian Feudalism 300-1200 by R.S. Sharma</p> <p>32. India at the death of Akbar by W.H. Moreland</p> <p>33. Swadesh Movement in Bengal by Sumit Sarkar</p> <p>34. Mughal Kaal de Hindustan vich Zarai Rishteyan bare Vichar by Sh. Saed Noor Ul Hasan</p> <p>35. India Today by Palm Dutt</p> <p>36. Bharat da Sawindhanak Kanoon by R.S. Sharma</p> <p>37. ਪ੍ਰੇਮ ਪਰਿਸ਼ਰਮ ਦਾ ਪਤਨ (Prem Parisham da Patan by William Shakespeare)</p> <p>38. ਵਰੋਨਾ ਦੇ ਦੋ ਸਰਦਾਰ (Warona De Do Sardar by William Shakespeare)</p> <p>39. ਕਲਹਿਣੀ ਤੰਤਰ (Kalheni Tantar by William Shakespeare)</p> <p>40. ਭੁੱਲਾਂ ਦਾ ਤਮਾਸ਼ਾ (Bhulan da Tamasha by William Shakespeare)</p> <p>41. ਕਿਰਤਾਰਜੁਨੀਯਮ ਕ੍ਰਿਤ ਭਾਰਵਿ (Kirtarjuniam by Bharvi)</p> <p>42. ਭਾਰਤੀ ਦੰਡ ਸੰਘਤਾ (1860) (Bharti Dand Sanghata (1860))</p> <p>43. ਸ਼ਹਾਦਤ ਦਾ ਕਾਨੂੰਨ (Shahadat da Kanoon)</p> <p>44. ਪਾਲਿਟਿਕਸ ਕ੍ਰਿਤ ਅਰਸਤੂ (Politics by Aristotle)</p> <p><u>Translation from Punjabi into other Language</u></p> <p>45. ਵੱਡੇ ਰਾਜੇ ਦੇ ਸਿਰ ਉਤੇ ਪੰਡ (Wade Raje de Sir Ute Pand)</p> <p>46. ਮੁਸਲਮਾਨਾਂ ਦੀ ਬਾਂਗ (Muslman di Baang)</p> <p>47. ਇੱਕ ਦੀ ਥਾਂ ਦੋ (Ik di Than Do)</p> <p>48. ਲੋਹੇ ਦਾ ਸੋਨਾ (Lohe da Sona)</p> <p>49. ਵੱਡੇ ਰਾਜੇ ਦੇ ਮੱਥੇ ਵਿਚ ਵੱਟਾ (Wade Raje de Mathe vich Watta)</p> <p>50. ਤੇਰੇ ਭਾਣੇ (ਉਰਦੂ ਅਨੁਵਾਦ) ਵਲੋਂ ਸ. ਕਰਤਾਰ ਸਿੰਘ ਦੁੱਗਲ (Sarbat da Bhala (In Urdu) by S. Kartar Singh Duggal)</p> <p>51. ਸਰਬਤ ਦਾ ਭਲਾ (ਉਰਦੂ ਅਨੁਵਾਦ) ਵਲੋਂ ਸ. ਕਰਤਾਰ ਸਿੰਘ ਦੁੱਗਲ (Sarbat da Bhala (In Urdu) by S. Kartar Singh Duggal)</p> <p><u>Transliteration from other Languages into Punjabi</u></p> <p>52. ਦੀਵਾਨ-ਏ-ਗਲਿਬ (Deewan-e-Galib by Galib)</p> <p>53. ਕੁਲੀਆਤ-ਏ-ਇਕਬਾਲ (Kuliat-e-Iqbal by Iqbal)</p> <p>54. ਕੁਲੀਆਤ-ਏ-ਫੈਜ਼ (Kuliat-e-Faiz by Faiz)</p> <p><u>Transliteration from Punjabi to other Language</u></p> <p>55. ਆਰਤੀ ਵਲੋਂ ਸ਼ਿਵ ਕੁਮਾਰ ਬਟਾਲਵੀ (ਬੰਗਾਲੀ ਲਿਪੀਅੰਤਰ) (Aarti by Shiv Kumar Batalvi (Bangali Tranliteration))</p> <p>56. ਪੰਜਾਬੀ ਦੀਆਂ ਕੁਝ ਚੋਣਵੀਆਂ ਕਹਾਣੀਆਂ ਦਾ ਤਾਮਿਲ ਵਿਚ ਲਿਪੀਅੰਤਰ (Punjabi dian Kujh Chonvian Kahanianda Tamil vich Lipiantar)</p> <p><b>(e) ਸੰਪਾਦਨ (Collective works)</b></p> <ol style="list-style-type: none"> <li>1. ਬਾਵਾ ਬਲਵੰਤ ਰਚਨਾਵਲੀ (Bawa Balwant Rachnawali)</li> <li>2. ਪ੍ਰਤਿਨਿਧ ਪੰਜਾਬੀ ਕਵਿਤਾ (Partinidh Punjabi Kavita)</li> </ol> <p><b>(f) ਕਾਨਫਰੰਸ ਦੀਆਂ ਪ੍ਰੋਸੀਡਿੰਗਜ਼ (Proceedings of Conference)</b></p> <ol style="list-style-type: none"> <li>1. ਬਾਈਵੀ ਅੰਤਰਰਾਸ਼ਟਰੀ ਪੰਜਾਬੀ ਵਿਕਾਸ ਕਾਨਫਰੰਸ (ਪੰਜਾਬੀ ਡਾਇਸਪੋਰਾ) (22<sup>nd</sup> Antarrashtri)</li> </ol>
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	<p>Punjabi Vikas Conference (Punjabi Diaspora))</p> <p>2. ਤੇਈਵੀ ਅੰਤਰਰਾਸ਼ਟਰੀ ਪੰਜਾਬੀ ਵਿਕਾਸ ਕਾਨਫਰੰਸ (ਗੁਰੂ ਅਰਜਨ ਦੇਵ ਅਤੇ ਉਨ੍ਹਾਂ ਦਾ ਯੁੱਗ) 23<sup>rd</sup> Antarrashtri Punjabi Vikas Conference (Guru Arjan Dev ate Unah da Yug)</p> <p><b>(g) ਇਤਿਹਾਸਕਾਰਾਂ/ਕਲਾਕਾਰਾਂ/ਚਿੱਤਰਕਾਰਾਂ ਦੇ ਮੋਨੋਗਰਾਫ Monographs of Punjabi Hisotorian/ Artists)</b></p> <ol style="list-style-type: none"> <li>1. Smt.Amrita Shergill</li> <li>2. Dr.Ganda Singh</li> <li>3. Dr.Mohinder Singh Randhawa</li> <li>4. Prof.Sohan Singh</li> </ol> <p><b>(h) ਸਮਾਜ ਵਿਗਿਆਨਾਂ ਨਾਲ ਸਬੰਧਿਤ ਜਨਰਲ/ਪਾਠ-ਪੁਸਤਕ ਲੜੀ (General/Text Books Under Medium Switch Over Scheme)</b></p> <ol style="list-style-type: none"> <li>1. ਉੱਚਾ ਪਿੰਡ ਸੰਘੋਲ ਦੀ ਇਤਿਹਾਸਕ ਮਹੱਤਤਾ (Ucha Pind Sanghol di Itihasak Mahatata)</li> <li>2. A Concise History of European Art Between the XIV and XIX Centuries</li> <li>3. ਨ੍ਰਿਤ ਕਲਾ (Nrit Kala)</li> <li>4. ਮਾਂਗਵੇ ਮੋਤੀ (Maangven Moti)</li> <li>5. ਸਾਡੀਆਂ ਲੋਕ ਗਾਇਕਾਵਾਂ (Saadian Lok Gyakavan)</li> <li>6. ਭਾਰਤ ਵਿਚ ਸੂਫੀਵਾਦ (Bharat vich Sufiwad)</li> <li>7. ਕੰਢੀ ਦੇ ਇਲਾਕੇ ਦੇ ਇਤਿਹਾਸਕ ਪਿੰਡ (Kandhi de Ilake de Itihasak Pind)</li> <li>8. ਸਭਿਆਚਾਰ ਦਾ ਫਲਸਫਾ (Sabhyachar da Falsfa)</li> <li>9. ਪ੍ਰਪੰਚਵਾਦ ਅਤੇ ਅਸਤਿਤਵਵਾਦ (Prapanchvad ate Astitavavad)</li> <li>10. ਸਰੀਰਕ ਸਿੱਖਿਆ (Sareerak Sikhya)</li> <li>11. ਵਿਸ਼ਲੇਸ਼ੀ ਫਲਸਫਾ (Vishleshi Phalspha)</li> <li>12. ਕਦਰਾ ਕੀਮਤਾਂ ਦੀ ਸਿੱਖਿਆ Kadran Keemtan di Sikhya</li> <li>13. ਉਭਰਦੇ ਭਾਰਤੀ ਸਮਾਜ ਵਿਚ ਅਧਿਆਪਨ (Ubharde Bharti Samaj vich Adhyapan)</li> <li>14. ਪੰਜਾਬ ਦੀ ਢਾਡੀ ਪਰੰਪਰਾ (Punjab di Dhadhi Prampara)</li> <li>15. ਉੱਘੀਆਂ ਪੰਜਾਬੀ ਇਸਤਰੀਆਂ (Punjab dian Istriyan)</li> <li>16. ਲੋਕ ਤਾਲਾਂ ਦਾ ਸੰਗ੍ਰਹਿ (Lok Talan da Sangreh)</li> <li>17. ਪੱਛਮੀ ਨੀਤੀ ਸ਼ਾਸਤਰ(Pachhami Neeti Shastar)</li> <li>18. Folk Art &amp; Culture for B.A.Part 1</li> <li>19. Folk art &amp; Culture for B.A.Part 2</li> <li>20. Folk art &amp; Culture for B.A.Part 3</li> <li>21. ਪੰਜਾਬ ਦੇ ਪਹਿਰਾਵੇ (Punjab de Pehrave)</li> <li>22. ਸੌਂਦਰਯ ਸ਼ਾਸਤਰ (Saundreya Shastar)</li> <li>23. ਆਧੁਨਿਕ ਚਿੱਤਰਕਲਾ (Adhunik Chitarkala)</li> <li>24. ਪ੍ਰਸਿੱਧ ਕਲਾਕ੍ਰਿਤਾਂ ਦਾ ਆਲੋਚਨਾਤਮਕ ਅਧਿਐਨ (ਬੀ.ਏ. ਭਾਗ ਪਹਿਲਾ) (Parsidh Kalakirtan da Alochnatamak Adhyan for(B.A.Part 2))</li> <li>25. ਪ੍ਰਮੁੱਖ ਕਲਾਕ੍ਰਿਤਾਂ ਦਾ ਆਲੋਚਨਾਤਮਕ ਅਧਿਐਨ (ਬੀ.ਏ. ਭਾਗ ਦੂਜਾ) (Parmukh Kalakirtan da Alochnatmak Adhyan(B.A.Part 3))</li> <li>26. ਯੂਰਪੀਅਨ ਕਲਾ ਦਾ ਇਤਿਹਾਸ ਅਤੇ ਕਲਚਰ (ਸਮਾ ਤੋ 1870 ਏ.ਡੀ) (European Kla da Itihas ate Culture (Ranaissance to 1870 A.D.))</li> </ol>
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27. ਭਾਰਤੀ ਮੂਰਤੀਕਲਾ ਦਾ ਇਤਿਹਾਸ (Bharti Murtikala da Itihas)
28. ਆਧੁਨਿਕ ਕਲਾ (Adhunik Kala)
29. ਆਧੁਨਿਕ ਭਾਰਤੀ ਕਲਾ ਦਾ ਇਤਿਹਾਸ (Adhunik Bharti Kala da Itihas)
30. ਰੋਜਨਾਮਚਾ : ਮੋਰਚਾ ਗੁਰੂ ਕਾ ਬਾਗ (Roznamcha :Morcha Guru Ka Bagh)
31. ਭਾਰਤੀ ਰਾਜਨੀਤਕ ਚਿੰਤਨ (Bharti Rajneetak Chintan)
32. ਆਧੁਨਿਕ ਭਾਰਤ ਦਾ ਆਰਥਿਕ ਵਿਕਾਸ (1850-1947) (Adhunik Bharat da Arthik Vikas (1850-1947))
33. ਗਦਰ ਲਹਿਰ ਦੀ ਵਾਰਤਕ (Gadar Lehar di Vartak)
34. Critical Approaches to Literature & Research Methodology
35. Political Illustrations
36. ਅੰਤਰ ਰਾਸ਼ਟਰੀ ਸਬੰਧ ਰੱਖਿਆ ਅਤੇ ਪਹਿਲੂ (Antar Rashtri Sambandh ate Rakheya Pehlu)
37. ਪ੍ਰਾਚੀਨ ਭਾਰਤ ਦੀ ਸੰਸਕ੍ਰਿਤੀ (Prachin Bharat di Sanskriti)
38. ਭੌਤਿਕ ਭੂਗੋਲ (Bhotik Bhugol)
39. ਪ੍ਰਾਚੀਨ ਬੁੱਧ ਧਰਮ ਉਦਭਵ, ਸੁਭਾਅ ਅਤੇ ਪਤਨ (Prachin Budh Dharam, Udbhaw, Subha ate Patan)
40. ਪੋਦਿਆਂ ਦੀ ਦੁਨੀਆਂ (Podeyan di Duniya)
41. ਪੰਜ-ਆਬ (Punj-Aab)
42. ਸਮਾਜ ਕਾਰਜ ਦੇ ਸਿਧਾਂਤ ਅਤੇ ਖੇਤਰ (Samaj Karaj de Sidhant ate khetar)
43. ਸੰਗੀਤ ਦਾ ਅਧਿਐਪਨ (Sangeet da Adhyapan)
44. ਦੂਜੀ ਜਮਾਤ ਨੂੰ ਪੰਜਾਬੀ ਕਿਵੇਂ ਪੜਾਈਏ (Duji Jamat noo Punjabi Kiven Parhaiey)
45. ਬਾਇਓ-ਐਥਿਕਸ ਅਤੇ ਸਿਹਤ ਸੰਭਾਲ ਨੀਤੀ Bio-Ethics ate Sehat Sambhal Neeti)

**(i) ਫੈਲੋਸ਼ ਵਲੋਂ ਕੀਤੇ ਜਾ ਰਹੇ ਪ੍ਰੋਜੈਕਟ (Project of Fellows)**

1. So Says Guru Granth Sahib
2. ਪੰਜਾਬ ਦਾ ਲੋਕ ਵਿਰਸਾ (ਭਾਗ ਦੂਜਾ) (Punjab da Lok Virsa (Part 2))
3. ਰਿਗਵੇਦ, ਅਥਰਵੇਦ, ਪਾਲੀ, ਪ੍ਰਾਕ੍ਰਿਤ, ਅਪਭ੍ਰੰਸ਼ ਬਾਰੇ ਮੋਨੋਗਰਾਫ (Rigveda, Atharvad, Pali, Prakrit) Apbhransh (Monograph)
4. ਵਿਗਿਆਨਕ ਕੋਸ਼ (Vigyanak Kosh)
5. ਪੰਜਾਬੀ ਸਭਿਆਚਾਰ ਸ਼ਬਦਵਾਲੀ ਕੋਸ਼ (Punjabi Sabhayachar Shabdawli Kosh)
6. Mahabharat (Tr.)
7. Medieval Punjabi Literature
8. ਨਾਨਕ ਬਾਣੀ (ਦੋ ਭਾਗਾਂ ਵਿੱਚ) (Nanak Bani) (Transcreation in English) (in two Volumes)
9. ਪੰਜਾਬੀਆਂ ਦਾ ਉਤਰੀ ਅਮਰੀਕਾ ਵਿਚ ਪਰਵਾਸ (Punjabian da Uttari America vich Parvas)
10. ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦਾ ਥੀਸਾਰਸ (Punjabi Bhasha da Theasuarus)
11. ਕਾਨੂੰਨ ਦਾ ਵਿਸ਼ਾ ਕੋਸ਼ (Kanoon da Visha Kosh)
12. ਪੰਜਾਬੀ ਕਵਿਤਾ ਵਿਚਾਰ ਕੋਸ਼ (Punjabi Kawita Vichar Kosh)

**(j) ਵਿਗਿਆਨਕ ਚੇਤਨਾ ਸਬੰਧੀ ਪੁਸਤਕ ਲੜੀ (Vigyanak Chetna Sambandhi Pustak Lari)**

1. ਦਮੇ ਦਾ ਮਰੀਜ਼ ਦਮੇ ਦਾ ਡਾਕਟਰ (Damme da Marij, Damme da Doctor)
2. ਕੀੜੀਆਂ (Keerian)
3. ਜੈਵਿਕ ਵਿਭਿੰਨਤਾ ਅਤੇ ਵਾਤਾਵਰਣ (Jaiwik Vibhinta ate Vatavaran)
4. ਵਾਤਾਵਰਨ ਦੀ ਸਿੱਖਿਆ (Vatawaran di Sikhya)

	<p>5.ਹੱਡੀਆਂ ਅਤੇ ਜੋੜਾਂ ਦੀਆਂ ਸੱਟਾਂ ਅਤੇ ਇਲਾਜ (Hadian ate Joran dian Sattan te Ilaj)</p> <p>6.ਯੋਗਾ ਅਤੇ ਸਰੀਰਕ ਸਿੱਖਿਆ (Yoga ate Sareerak Sikhya)</p> <p>7.ਵਿਗਿਆਨ ਸੁਗਿਆਨ ਸੰਵਾਦ (Vigyan Sugyan Samvad)</p>
<b>Correspondence Courses</b>	<p>(a) Pursuing Research on Urban Housing in Punjab Under the Broad; area' Urban Development and Management</p> <p>(b) Role of Coping Styles Self Efficacy and Adherence to Medical Regime in FOL of HIV/AIDS Patients.</p> <p>(c) Territorial Resionalism and World Politics : A study of European Integration.</p> <p>(d) Regional disparities in the Industrial Development of Punjab: Structure, Causes and Remedies</p> <p>(e) Factors Influencing Contextual Task Performance and their Impact on Time Management and Procrastination</p> <p>(f) Credit Management and problems of NPAs in Public Sector Banks, UGC, New Delhi.</p>
<b>Department of Encyclopaedia of Sikhism</b>	<p>(a) Completed the project of putting the Encyclopaedia of Sikhism on website. (4 volumes).</p> <p>(b) Translation/Adaptation of Encyclopaedia of Sikhism into Punjabi. One volume under print and working on the second volume.</p> <p>(c) Work on preparing a concise edition of the Encyclopaedia nearly completed.</p> <p>(d) Work on revision and updating of the Encyclopaedia in hand (4 volumes).</p> <p>(e) Preparing a special issue of ਸਮਾਜ ਵਿਗਿਆਨ ਪਤ੍ਰਿਕਾ on Sikh Culture.</p>
<b>Economics</b>	<p>(a) Rural Students in Universities of Punjab: An Exploratory</p> <p>(b) Globalization and Indian State: A case study of Delivery of Education, Helath and Agricultural Extension Services in Punjab</p> <p>(c) Professional Education in Punjab: Number, Proportion and Socio-Economic Background of Rural Students.</p> <p>(d) Situational Analysis of Cotton Farmers in Northern Belt of India (Punjab, Haryana and Rajsthan).</p> <p>(e) Status of Local Agricultural Labour in Punjab</p>
<b>Education</b>	Adult education.
<b>Geography</b>	<p>(a) Pattern of Migration in India.</p> <p>(b) Pattern of Migration in Rural Punjab.</p> <p>(c) Female Literacy and Education in Rural Punjab.</p>

<b>History</b>	<ul style="list-style-type: none"> <li>(a) Historiography of Eighteenth Century Punjab.</li> <li>(b) History and Culture of Faridkot State.</li> <li>(c) Sardar Swaran Singh: A Political Biography (1907-1994)</li> <li>(d) Editing of Ain-i Akbari and Tuzuk-i Jahangiri.</li> <li>(e) Socio Religious History of Medieval Punjab.</li> <li>(f) Co-edited the 54th issue of Samajile Vijyan Patra in December as a special issue entitled Guru Arjan Dev Di Shahadat.</li> </ul>
<b>Human Biology</b>	Genomic Investigations using STR Markers in People of North West India.
<b>Linguistics &amp; Punjabi Lexicography</b>	<ul style="list-style-type: none"> <li>(a) Multivolume Punjabi-Punjabi Dictionary Project</li> <li>(b) Dictionary of Life Sciences</li> <li>(c) Dictionary of Physical Sciences</li> <li>(d) Dictionary of Social Sciences</li> <li>(e) Dictionary of Punjabi Language and Literature</li> <li>(f) French-Punjabi Dictionary</li> <li>(g) Punjabi-Punjabi Dictionary (School Level)</li> <li>(h) Malwai Kosh</li> <li>(i) Punjabi Theasaurus.</li> <li>(j) Noam Chomsky ( Project Awarded to Prof. Joga Singh by Punjab Academy, (New Delhi.)</li> <li>(k) Punjabi-Urdu Kosh.</li> <li>(l) Sufi Chinttan Sandarbh Kosh.</li> <li>(m) Punjabi Bhasa Vich As Rahi Navin Shabadawali.</li> <li>(n) Lop Ho Rahe Shabdan Da Punjabi-Punjabi Kosh.</li> <li>(o) Prof. Mohan Singh: Sandarbh Kosh.</li> </ul>
<b>Maharishi Valmiki Chair</b>	'Ramayana Concordance in seven volumes.
<b>Persian Urdu and Arabic</b>	<ul style="list-style-type: none"> <li>(a) Working on Punjabi Translation and Gurmukhi Translation of Bhai Laxvir Singh Nabhvi's book "Manajat-e-Bamdadi".</li> <li>(b) A project entitled "Quran Majeed Sandarbh Kosh" has been submitted to D.P.D of Punjabi University for approval.</li> <li>(c) Already working on "Kulliat-e-Faiz" in Punjabi a project given by D.P.D, Punjabi University, Patiala.</li> <li>(d) Elements of Punjabi Culture in Urdu Literature-Major Research Project for UGC through University by Dr. Nashir Naqvi.</li> <li>(e) Persian and Arabic vocabulary in "Guru Granth Sahib". Major Research Project y Dr. Mohd. Jameel.</li> </ul>
<b>Pharmaceutical Sciences and Drug Research:</b>	<ul style="list-style-type: none"> <li>(a) Testing the Percutaneous Permeation Enhancement Activity of Test Compound LPC(Kemin Industries Inc. USA)</li> <li>(b) Saponins for Percutaneous Permeation Enhancement: Biochemical, Biophysical and Microscopic Investigations.</li> </ul>

	<p>(c) Ethosomes for Controlled Site-Specific Delivery of Anti-Arthritis Drug</p> <p>(d) Vesicular Systems for Targeted Delivery to Breast Cancer Tissues</p> <p>(e) Interpolymer Complexation of Chondroitin Sulphate and Chitosan: A Means of Colon Specific Delivery of Indomethacin</p> <p>(f) Anti-diabetic efficiency of transdermally delivered repaglinide</p> <p>(g) Development and In Vitro-In Vivo characterization of elastic liposomal formulation for topical delivery of anti-arthritis drug</p>
<b>Physics</b>	<p>(a) Development of Optical Memory Using Laser Induced Photo-Stimulation</p> <p>(b) Investigation of double Photon Compton Scattering using Single Gamma Ray Detector.</p> <p>(c) Preparation of Silicon Sheets.</p> <p>(d) Laser Induced Photo-luminescence and Morphological Studies of Nano Phosphors.</p> <p>(e) To set up a X-ray Fluorescence (XR) Facility to Explore details of the Related Processes and its Analytical Applications.</p> <p>(f) Heavy Flavor Physics and CP-Violation.</p> <p>(g) Photometric and Spectroscopic Study of variable Stars and Be Stars.</p>
<b>Punjab Historical Studies</b>	<p>(a) 'What is History' in Punjabi.</p> <p>(b) Famines in Punjab 1901-1947,</p> <p>(c) Panjab, Past &amp; Present.</p> <p>(d) Baba Dyal and Nirankari Movement.</p> <p>(e) 'Clonial Ideology &amp; Historiography'</p> <p>(f) Chronological History of Punjab.</p> <p>(g) Editing of Sources on Partition of Punjab</p> <p>(h) Bibliography on the Contribution of the Punjabis Towards India's Struggle for freedom.</p> <p>(i) Collection and Editing of Literature on Udasis: Survey of Udais Deras.</p> <p>(j) Agricultural Development in Punjab under Maharaja Ranjit Singh 1780-1839.</p> <p>(k) Re-interpreting Sikhism: Guru Nanak to Guru Hargobind.</p> <p>(l) Martyrdom in Sikh History.</p>
<b>Punjabi Literary Study</b>	<p>(a) <b>ਕੋਸ਼ (Dictionaries)</b></p> <ol style="list-style-type: none"> <li>1. ਪੰਜਾਬੀ ਸਾਹਿਤ ਵਿਸ਼ਵ ਕੋਸ਼ ਭਾਗ ਦੂਜਾ (Encyclopaedia of Punjabi Literature Vol. II)</li> <li>2. ਅਨੁਵਾਦ ਕੋਸ਼ (Dictionary of Translated works in Punjabi)</li> <li>3. ਪੰਜਾਬੀ ਨਾਟਕਕਾਰ ਕੋਸ਼ (Dictionary of Punjabi Dramatist)</li> <li>4. ਪ੍ਰੇਮ-ਪ੍ਰਧਾਨ ਕਿੱਸਿਆਂ ਦਾ ਕਥਾ-ਵਸਤੂ ਕੋਸ਼ (dictionary of the poets of Romance-Oriented Qissa)</li> <li>5. ਪੰਜਾਬੀ ਆਲੋਚਨਾ ਕੋਸ਼ (Dictionary of Punjabi Literary Criticism)</li> <li>6. ਨਾਟ ਸ਼ਬਦਾਵਲੀ ਕੋਸ਼ (Dictionary of Dramatic terms)</li> </ol>

7. ਮਹਿਮਾ ਪ੍ਰਕਾਸ਼ ਗ੍ਰੰਥ ਦੀ ਅਨੁਕ੍ਰਮਣਿਕਾ (Concordance of Mehma Parkash Granth)

**(b) ਪੰਜਾਬੀ ਲੇਖਕ ਲੜੀ (Punjabi Writers Monograph Series)**

1. ਬੂਟਾ ਸਿੰਘ (Butta Singh)
2. ਕਰਤਾਰ ਸਿੰਘ ਬਲੱਗਣ (Kartar Singh Ballagan)
3. ਇੰਦਰ ਸਿੰਘ ਚੱਕਰਵਰਤੀ (Inderjeet Singh Chakbarvarti)
4. ਇੰਦਰਜੀਤ ਸਿੰਘ ਤੁਲਸੀ (Inderjeet Singh Tulsi)
5. ਸੁਰਜੀਤ ਰਾਮਪੁਰੀ (Surjit Rampuri)
6. ਡਾ. ਅਤਰ ਸਿੰਘ (Dr. Attar Singh)
7. ਡਾ. ਗੋਪਾਲ ਸਿੰਘ ਦਰਦੀ (Dr. Gopal Singh Dardi)
8. ਗੁਰਦਿੱਤ ਸਿੰਘ ਕੁੰਦਨ (Gurdit Singh Kundan)
9. ਬਿਹਾਰੀ ਲਾਲ ਪੁਰੀ (Bihari Lal Puri)
10. ਮਾਸਟਰ ਤਾਰਾ ਸਿੰਘ (Master Tara Singh)
11. ਰਾਘਬੀਰ ਸਿੰਘ ਬੀਰ (Raghbir Singh Bir)
12. ਹਰਿਨਾਮ (Harinam)
13. ਗੁਰਦਿਆਲ ਸਿੰਘ ਖੋਸਲਾ (Gurdial Singh Khosla)
14. ਹਰਸਰਨ ਸਿੰਘ (Harsaran Singh)
15. ਪ੍ਰਿੰਸੀਪਲ ਤਖਤ ਸਿੰਘ (Principal Takhat Singh)
16. ਪ੍ਰਿੰਸੀਪਲ ਗੰਗਾ ਸਿੰਘ (Principal Ganga Singh)
17. ਗਿਆਨੀ ਜੋਧ ਸਿੰਘ (Giani Jodh Singh)
18. ਮੁਹੰਮਦ ਬਖ਼ਸ਼ (Muhammad Bakhsh)
19. ਭਾਈ ਜਵਾਹਰ ਸਿੰਘ (Bhai Jawahar Singh)
20. ਜੀ.ਬੀ. ਸਿੰਘ (G.B. Singh)
21. ਨਜ਼ਾਬਤ (Njabat)
22. ਵਣਜਾਰਾ ਬੇਦੀ (Vanjara Bedi)
23. ਸੰਤ ਸਿੰਘ ਸੇਖੋਂ (Sant Singh Sekhon)
24. ਸੋਹਨ ਸਿੰਘ ਸੀਤਲ (Sohan Singh Seetal)
25. ਹਰਨਾਮ ਦਾਸ ਸਹਿਰਾਈ (Harnam Das Sehrai)
26. ਨਵਤੇਜ ਪੁਆਧੀ (Navtej Puadhi)
27. ਸੁਜਾਨ ਸਿੰਘ (Sujan Singh)
28. ਸੁਰਜੀਤ ਸਿੰਘ ਸੇਠੀ (Surjit Singh Sethi)
29. ਸੁਖਪਾਲਵੀਰ ਸਿੰਘ ਹਸਰਤ (Sukhpalveer Singh Hasrat)
30. ਡਾ. ਹਰਿਭਜਨ ਸਿੰਘ (Dr. Haribhajan Singh)
31. ਬਲਵੰਤ ਗਾਰਗੀ (Balwant Gargi)
32. ਦੇਵਿੰਦਰ ਸਤਿਆਰਥੀ (Devinder Satiarhi)
33. ਪਾਣਿਨੀ (Panini)
34. ਗੰਗਾ ਸਿੰਘ ਭੁੰਦਰ (Ganga Singh Bhundarh)
35. ਨੰਦ ਲਾਲ ਨੂਰਪੁਰੀ (Nand Lal Noorpuri)

**(c) ਆਲੋਚਨਾਤਮਿਕ ਪੰਜਾਬੀ ਸਾਹਿਤ ਲੜੀ (Punjabi Literary Criticism Series)**

1. ਭਾਰਤੀ ਕਾਵਿ-ਸ਼ਾਸਤਰ (Bharti Kaav-Shashtar)
2. ਪੱਛਮੀ ਕਾਵਿ-ਸ਼ਾਸਤਰ (Pacchami Kaav-Shashtar)
3. ਪੰਜਾਬੀ ਕਿੱਸਾ-ਕਾਵਿ ਤੇ ਵਿਰਸੇ ਦੀ ਸੰਭਾਲ (Punjabi Kissa-kaav Te Virse Di Sambhal)
4. ਭਾਰਤੀ ਸੋਦਰਯ ਸ਼ਾਸਤਰ (Bharti Sondaria Shashtar)
5. ਸੰਸਕ੍ਰਿਤ ਸਾਹਿਤ ਦਾ ਇਤਿਹਾਸ (Sanskrit Sahit Da Itihaas)

6. ਉਪਭਾਸ਼ਾ ਪੁਆਧੀ: ਭਾਸ਼ਾ ਵਿਗਿਆਨਿਕ ਅਧਿਐਨ (Upp-bhasha Puadhi : Bhasl Adhiyan)
7. ਭਾਰਤੀ ਅਤੇ ਪਾਕਿਸਤਾਨੀ ਸਾਹਿਤ ਦੇ ਸੰਗਠਿਤ ਇਤਿਹਾਸ (Bharti Ate Pakistani Sanghthhit Itihass)

**(d) ਜੀਵਨ ਤੇ ਪ੍ਰਤਿਭਾ ਲੜੀ (Life and Personality Series)**

1. ਗੁਰੂ ਨਾਨਕ (Guru Nanak)
2. ਸ੍ਰੀ ਗੁਰੂ ਹਰਿ ਰਾਇ ਸਾਹਿਬ (Sri Guru Hari Rai Sahib).
3. ਸ੍ਰੀ ਗੁਰੂ ਹਰਿ ਕ੍ਰਿਸ਼ਨ (Sri Guru Hari Krishan)
4. ਗੁਰੂ ਅੰਗਦ ਦੇਵ (Guru Angad Dev)

**(e) ਭਾਵਨਾਤਮਿਕ ਲੜੀ (Poetical Works Series)**

1. ਹਿੰਦੀ ਕਵੀਆਂ ਦੀ ਪੰਜਾਬੀ ਰਚਨਾ ਦਾ ਸੰਕਲਨ (Hindi Kavian Di Punjabi Rachna Da Sanklan)

**(f) ਅਨੁਵਾਦ ਲੜੀ (Translation Series)**

1. ਸਿਕਲੀਗਰ ਕਬੀਲਿਆਂ ਦਾ ਸਭਿਆਚਾਰ (Sikligar Kabillian Da Sabhiachar) (English Translation)

**(g) ਸਾਹਿਤਿਕ ਸੁੈਚੀਵਨੀ ਲੜੀ (Series of Literary Autobiographies)**

1. ਹਰਨਾਮ ਸਿੰਘ ਸ਼ਾਨ (Harnam Singh Shan)
2. ਕਰਤਾਰ ਸਿੰਘ ਸੂਰੀ (Kartar Singh Suri)
3. ਕਰਨੈਲ ਸਿੰਘ ਰਾਮੂਵਾਲੀਆ (Karnail Singh Ramuwalia)
4. ਜਨਾਬ ਫ਼ਖ਼ਰ ਜ਼ਮਾਨ (Janaab Fakhar Zaman)
5. ਹਰਿੰਦਰ ਮਹਿਬੂਬ (Harinder Mehboob)
6. ਅਜੀਤ ਕੌਰ (Ajit Kaur)
7. ਜਨਾਬ ਨਜ਼ਮ ਹੁਸੈਨ ਸਯੱਦ (Janab Nazam Hussain Sayad)
8. ਇਸ਼ਾਕ ਮੁਹੰਮਦ (Ishak Muhammad)
9. ਸ਼੍ਰੀ ਪ੍ਰੇਮ ਪ੍ਰਕਾਸ਼ (Sh. Prem Parkash)
10. ਜਸਵੰਤ ਸਿੰਘ ਕੰਵਲ (Jaswant Singh Kanwal)
11. ਗੁਰਦੇਵ ਰੁਪਾਣਾ (Gurdev Rupana)
12. ਗੁਰਸ਼ਰਨ ਸਿੰਘ (Gursharan Singh)
13. ਜਗਜੀਤ ਸਿੰਘ ਆਨੰਦ (Jagjit Singh Anand)
14. ਸੁਤਿੰਦਰ ਸਿੰਘ ਨੂਰ (Sutindedr Singh Noor)
15. ਡਾ. ਜਗਤਾਰ (Dr. Jagtar)
16. ਡਾ. ਆਤਮਜੀਤ (Dr. Atamjeet)
17. ਡਾ. ਸੁਰਜੀਤ ਪਾਤਰ (Dr. Surjit Patar)
18. ਡਾ. ਅਮਰੀਕ ਸਿੰਘ (Dr. Amrik Singh)
19. ਡਾ. ਗੁਰਚਰਨ ਸਿੰਘ (ਵਗਦੀ ਸੀ ਰਾਵੀ) (Dr. Gurcharan Singh (Vagdi Si Ravi)
20. ਅਫ਼ਜ਼ਲ ਅਹਿਸਨ ਰੰਧਾਵਾ (Afzal Aehsaan Randhawa)
21. ਮਨਜੀਤ ਟਿਵਾਣਾ (Manjit Tiwana)

**(h) ਸਰੂਪ, ਸਿਧਾਂਤ ਤੇ ਵਿਕਾਸ ਲੜੀ (Series of Form Concept and Development in Punjabi Literature)**

1. ਰੇਖਾ ਚਿੱਤਰ : ਸਰੂਪ ਤੇ ਸਿਧਾਂਤ (Rekha Chittar : Sarup, Sidhant Te Vikas)

	<ol style="list-style-type: none"> <li>2. ਪੰਜਾਬੀ ਆਲੋਚਨਾ : ਸਰੂਪ ਸਿਧਾਂਤ ਤੇ ਵਿਕਾਸ (Punjabi Alochna : Sarup Te Sidhant)</li> <li>3. ਪੁਰਾਤਨ ਪੰਜਾਬੀ ਕਵਿਤਾ : ਸਰੂਪ, ਸਿਧਾਂਤ ਤੇ ਵਿਕਾਸ(Puratan Punjabi Kavita : Sarup, Sidhant Te Vikas)</li> <li>4. ਆਧੁਨਿਕ ਪੰਜਾਬੀ ਕਵਿਤਾ: ਸਰੂਪ, ਸਿਧਾਂਤ ਤੇ ਵਿਕਾਸ(Adhunik Punjabi Kavita: Sarup, Sidhant Te Vikas)</li> <li>5. ਪੰਜਾਬੀ ਨਾਵਲ : ਸਰੂਪ, ਸਿਧਾਂਤ ਤੇ ਵਿਕਾਸ (Punjajbi Naval : Sarup, Sidhat Te Vikas)</li> <li>6. ਪੰਜਾਬੀ ਲੋਕ ਕਾਵਿ: ਸਰੂਪ ਸਿਧਾਂਤ ਤੇ ਸਥਿਤੀ (Punjabi Lok Kaav : Sarup, Sidhant Te Vikas)</li> <li>7. ਪੰਜਾਬੀ ਬੀਰ ਕਾਵਿ: ਸਰੂਪ ਸਿਧਾਂਤ ਤੇ ਸਥਿਤੀ(Punjabi Bir Kav : Sarup, Sidhant Te Sthiti)</li> <li>8. ਪੰਜਾਬੀ ਗੁਰਮਤਿ ਕਾਵਿ: ਸਰੂਪ, ਸਿਧਾਂਤ ਤੇ ਸਥਿਤੀ (Punjabi Gurmat(i) Kaav : Sarup, Sidhant Te Sthiti)</li> <li>9. ਪੰਜਾਬੀ ਪਰਚੀ ਸਾਹਿਤ: ਸਰੂਪ ਤੇ ਪਰੰਪਰਾ (Punjabi Parchi Sahit : Sarup, Sidhant Te Sthiti)</li> <li>10. ਕਿੱਸਾ ਕਾਵਿ: ਸਰੂਪ ਸਿਧਾਂਤ ਤੇ ਵਿਕਾਸ (Kissa Kaav : Sarup, Sidhat Te Vikas)</li> </ol> <p>(i) ਖੋਜ ਪਤ੍ਰਿਕਾ ਦੇ ਤਿਆਰੀ ਅਧੀਨ ਅੰਕ (Khojpatrika Issues Under Preparation) (Research Journal)</p> <ol style="list-style-type: none"> <li>1. ਬਾਣੀ ਸੰਪਾਦਨਾ ਵਿਸ਼ੇਸ਼ ਅੰਕ (Bani Sampadana Vishesh Ank)</li> <li>2. ਉੱਤਰ ਆਧੁਨਿਕਤਾ ਵਿਸ਼ੇਸ਼ ਅੰਕ (Uttar Aadhunikta Vishesh Ank)</li> <li>3. ਪੰਜਾਬੀ ਆਲੋਚਨਾ ਵਿਸ਼ੇਸ਼ ਅੰਕ (Punjabi Alochna Vishesh Ank)</li> <li>4. ਸੰਸਕ੍ਰਿਤ ਨਾਟਕ ਵਿਸ਼ੇਸ਼ ਅੰਕ (Sanskrit Natak Vishesh Ank)</li> <li>5. ਪੰਜਾਬੀ ਸਾਹਿਤ ਆਲੋਚਕ ਵਿਸ਼ੇਸ਼ ਅੰਕ (Punjabi Sahit Alochak Vishesh Ank)</li> <li>6. ਪੰਜਾਬੀ ਸਾਹਿਤ ਆਲੋਚਨਾ ਪੁਸਤਕਾਂ ਵਿਸ਼ੇਸ਼ ਅੰਕ (Punjabi Sahit Alochna Pustakan Vishesh Ank)</li> <li>7. ਸਧਾਰਨ ਅੰਕ (General Ank)</li> </ol>
<b>Sanskrit</b>	<ol style="list-style-type: none"> <li>(a) Preparation of Punjabi-Sanskrit Kosh.</li> <li>(b) 'A study of Modern Punjabi Poetry In the Perspective of Indian Poetics' funded by UGC.</li> <li>(c) Punjabi translation of Sanskrit Mahakav 'Kiratarjuniam'.</li> <li>(d) Sankrit Sahitya Ka Itihas- to write in Punjabi.</li> <li>(e) Sanskrit Kava-Sastara Mahan Kosa (An Encyclopaedia of Sanskrit Poetics in Punjab).</li> </ol>
<b>Shri Guru Gobind Singh Department of Religious Studies</b>	<ol style="list-style-type: none"> <li>(a) Editing Munajaat-e-Baamdadi of Bhai Lakhshvir Singh ji.</li> <li>(b) The Sikhs: Their Faith and Path.</li> <li>(c) An Analytical Study of the Saddhammasangaho Work, sponsored by ICHR. New Delhi.</li> <li>(d) Jainism in Punjab.</li> <li>(e) Milind Lanha a pali text is being translated into Punjabi.</li> </ol>

<b>Shri Guru Granth Sahib Research Department</b>	<ul style="list-style-type: none"> <li>(a) Sikhism and the World Peace: A Perspective</li> <li>(b) Compilation System of Guru Granth Sahib in the Perspective of World Scriptures.</li> <li>(c) Interfaith Dialogue in the Perspective of Guru Nanak Bani.</li> <li>(d) Guru Granth Sahib and the Emergence of Sikh Culture: A Perspective</li> <li>(e) Sikh Culture as depicted in Secondary Sources.</li> <li>(f) To prepare an English translation of the annotated tika of Guru Granth Sahib attempted by Bhai Vir Singh named Santhya Sri Guru Granth Sahib.</li> <li>(g) Applied philosophy in Guru Granth Sahib.</li> </ul>
<b>Social Work</b>	Causes and Consequence of Female Foeticide in Rural.
<b>Sociology</b>	Ethnographic Study of Nomadic And Denotified Tribes of Punjab.
<b>University College of Engineering:</b>	<ul style="list-style-type: none"> <li>(a) Design of Hybrid Task Specific Ionic Liquids.</li> <li>(b) Inorganic Matrices as Novel Nano Composites for Catalysis and Synthesis.</li> <li>(c) DNA and Quantum Computing Approaches for VLSI Testing.</li> </ul>
<b>Zoology</b>	<ul style="list-style-type: none"> <li>(a) Taxonomic Studies on Family Noctuidae (Noctuoidea : Lepidoptera) from Western Ghats of India.</li> <li>(b) Taxonomic Revision of Indian Arctiidae (Lepidoptera).</li> <li>(c) Cytological and Morphotaxonomic Studies on Terrestrial Heteropteran Fauna (Insecta : Hemiptera: Heteroptera) of Punjab</li> </ul>

## 10. Patents generated, if any:

As the main object of the University is the development of Punjabi Language and Culture, therefore, most of the Research Work is published in the form of books and Research Papers. Many Research Papers of the University are published in Journals of National and International repute. However, in some departments quality applied work is also being carried out which is registered in the form of patents. The outcome of the current year is summarized below:

Department	Books	Research Papers	Patents
<b>Biotechnology</b>	02	22	05
<b>Botany</b>	-	06	-

<b>Chemistry</b>	-	24	04
<b>College of Engineering, Punjabi University Neighbourhood Campus, Rampura Phul</b>	-	05	-
<b>Commerce</b>	01	02	-
<b>Computer Science</b>	-	14	-
<b>Dance</b>	05	05	-
<b>Defence &amp; Strategic Studies</b>	-	04	-
<b>Correspondence Courses</b>	12	47	-
<b>Professor Harbans Singh Department of Encycloaedia of Sikhism</b>	04	12	-
<b>Department of Development of Punjabi Language</b>	75	7	0
<b>Economics</b>	06	22	-
<b>Education</b>	-	17	-
<b>English</b>	02	06	-
<b>Fine Arts</b>	-	07	-
<b>Forensic Science</b>	-	34	-
<b>Geography</b>	-	05	
<b>Gurmat Sangeet</b>	-	03	-
<b>Guru Kashi Campus, Talwandi Sabo</b>	-	06	-
<b>Hindi</b>	03	16	-
<b>History</b>	04	17	-
<b>Human Biology</b>	-	15	-

<b>Journalism and Mass Communication</b>	01	04	-
<b>Law</b>	02	09	-
<b>Library &amp; Information Science</b>	-	20	-
<b>Linguistics &amp; Punjabi Lexicography</b>	03	09	-
<b>Maharishi Valmiki Chair</b>	02	02	-
<b>Mathematics</b>	-	14	-
<b>Music</b>	01	5	-
<b>Nawab Sher Mohammad Khan Institute of Advanced Studies in Urdu, Persian, and Arabic, Malerkotla</b>	04	05	-
<b>Pharmaceutical Sciences and Drug Research</b>	-	17	03
<b>Philosophy</b>	-	03	-
<b>Physical Education</b>	04	10	-
<b>Physics</b>	01	42	-
<b>Physiotherapy and Sports Science</b>	-	36	-
<b>Political</b>	02	18	-
<b>Psychology</b>	-	22	-
<b>Public Administration</b>	02	08	-
<b>Punjab Historical Studies</b>	02	06	-
<b>Punjab Literary Study</b>	24	09	-

<b>Punjab School of Management Studies</b>	-	15	-
<b>Shri Guru Gobind Singh Department of Religious Studies</b>	02	19	-
<b>Shri Guru Granth Sahib Research Department</b>	04	23	-
<b>Social Work</b>	01	01	-
<b>Statistics</b>	-	03	-
<b>University College of Engineering</b>	-	34	
<b>Yadawindra College of Engineering, Talwandi Sabo</b>	07	13	-
<b>Zoology</b>	06	18	-

Shri Guru Gobind Singh Department of Religious Studies publishes a bi-annual journal.

## **11. New collaborative research programmes:**

The University has signed MOUs with the following Universities and Research Institutes in order to expand the University's relation with the outside world and provide an opportunity to the students and the faculty to interact with the experts of their fields:

- (a) Wilkes University, Pennsylvania, USA.
- (b) Kutztown University, Kutztown, Pennsylvania, USA.
- (c) Kwantlen University College, USA.
- (d) National Institute of Himalayan Bio-Resource and Technology, Palampur, Himachal Pradesh.
- (e) Arya Bhatt Institute of observation, Nainital, Uttranchal Pradesh.
- (f) National Foundation of India.
- (g) Grand Valley State University, USA.

Delegates comprising of students and faculty from these institutes visit Punjabi University and that of the Punjabi University visit these institutions.

In addition, individual departments also have collaborative research programmes with different Universities and Research Institutes. Some of these are briefed here:

<b>Sociology and Social Anthropology</b>	IWMI, Colombo, Sri Lanka
<b>Library &amp; Information Science</b>	(a) (International federation of Library Associations and Institutions) (b) UNESCO (c) International Association of School Librarianship
<b>Pharmaceutical Sciences and Drug Research</b>	(a) Shriram Institute for Industrial Research, New Delhi
<b>Chemistry</b>	(a) NIPER, Mohali (b) IndSwift, Chandigarh (c) IHBI, Palampur
<b>Biotechnology</b>	(a) PGI, Chandigarh (b) AIIMS, New Delhi (c) IGIB, New Delhi (d) NDR, Karnal (e) Deakin University, Australia (f) Aberdeen University England (g) RRL, Jammu (h) Munchen University, Germany (i) NIPER, Mohali (j) IARI, New Delhi (k) IT, New Delhi
<b>Social Work</b>	NIAR
<b>Computer Science</b>	(a) International Development Research Centre for Networking, Canada (2006-08). (b) Manchester University, U.K. (c) I.I.T. Delhi
<b>English</b>	IIAS, Shimla, Himachal Pradesh

<b>Botany</b>	(a) IHBT, Palampur (b) NRCM, Chambaghat, Solan. (c) GNDU, Amritsar. (d) Himachal Pradesh Univ., Shimla
<b>Punjabi</b>	(a) Punjabi Academy, Delhi. (b) National Sahit Academy, New Delhi. (c) National Book Trust of India
<b>Mathematics</b>	(a) IIT, Rookree (b) SLIET, Longowal
<b>Punjab School of Management Studies</b>	(a) Wilkes University, Pennsylvania, USA. (b) Kutztown University, Kutztown, Pennsylvania, USA. (c) Kwantlen University College, USA. (d) Grand Valley State University, USA.

## 12. Research grants received from various agencies:

<b>Department</b>	<b>Amount received</b>	<b>Funding agencies</b>
<b>Advanced Centre for Technical Development of Punjabi Language, Literature and Culture.</b>	(a) Rs. 36 lacs (b) SGD 48,979 (c) Rs. 20 lacs	Minsitry of Communication and information Technology, India.  International Development Research Centre (IDRC) Canada and AMIC, Singapore. MP LAD-Local Area Development Scheme.
<b>Biotechnology</b>	(a) Rs.35 lacs (b) Rs. 9.0 lacs (c) Rs.17.5 lacs (d) Rs. 20.0 lacs (e) Rs. 5.0 lacs	DST (FIST) UGC DST CSIR SRF grants
<b>Botany</b>	(a) Rs.4.3 lacs (b) Rs. 3.4 lacs (c) Rs. 7.60 lacs	SAP of DRS ASIST (UGC) CSIR

<b>Chemistry</b>	(a) Rs. 15 Lacs (b) Rs. 5 Lacs (c) Rs. 42.5 lacs (d) Rs. 8.67 lacs (e) Rs. 14.39 lacs (f) Rs. 20.00 lacs (g) Rs. 16.50 lacs (h) Rs. 7.30 lacs	DRDO CSIR UGC under SAP UGC DRDO CSIR CSIR CSIR
<b>Computer Science</b>	(a) Rs. 40.22 lacs (b) Rs. 25 lacs  (c) Rs. 4.12 lacs (d) Rs. 5.25 lacs	UGC Ministry of Science and Technology India. UGC AICTE
<b>Correspondence Courses</b>	Rs 40 lacs	UGC
<b>Department of Development of Punjabi Language</b>	Rs. 41,40,000/-	Punjab Government
<b>Economics</b>	(a) Rs. 0.86 lacs (b) Rs. 2.25 lacs  (c) Rs. 1.50 lacs (d) 15.00 lacs  (e) Rs. 3.00 lacs	UGC National Foundation of India, New Delhi UGC Centre for Policy Research, New Delhi The Punjab State Farmers Commission S.A.S Nagar Mohali.
<b>Education</b>	Rs 5 Lacs	UGC
<b>Geography</b>	(a) Rs.90,885/- (b) Rs.3,79,440/- (c) Rs. 95,550/-	ICSSR UGC ICSSR
<b>Maharishi Valmiki Chair</b>	Rs. 5 lacs	Punjab Government for Publication of books
<b>Pharmaceutical Sciences and Drug Research:</b>	(a) US\$6000 (b) Rs. 10 lacs (c) Rs. 1.0 lac (d) Rs. 0.85 lac	Kemin Industries Inc. USA CSIR, New Delhi UGC, New Delhi UGC New Delhi
<b>Physics</b>	Rs. 20 lacs	UGC

<b>Punjab School of Management Studies</b>	Rs. 2.29 lacs (for Major Research Project)	UGC
<b>Punjabi</b>	Rs. 41 lacs + one Project Fellow for five years 2005-10	UGC scheme DSA & ASIHSS
<b>Punjabi Literary Study</b>	Rs. 5,77,000 Rs. 8,46,600 2,00000	UGC Major Project UGC Major Project Punjabi University Patiala
<b>Sanskrit</b>	Rs. 4,76,000/- Rs. 89,200/-	Punjabi University, Patiala UGC
<b>Social Work</b>	Rs. 50, 000/-	UGC
<b>Sociology</b>	Rs. 5,86,000/-	Punjab Government
<b>Zoology</b>	(a) Rs. 23 lacs (b) Rs. 34.7 lacs + 2 Project Fellows (c) Rs. 13.0 lacs (d) Rs. 13.0 lacs	DST under FIST UGC under SAP.  MOEF DST

### 13. Details of research scholars:

Details of the Research Scholars working in different teaching and research departments are given below:

Name of the department	No. of Research Scholars
<b>Biotechnology</b>	26
<b>Botany</b>	20
<b>Chemistry</b>	21
<b>Commerce</b>	12
<b>Correspondence Courses</b>	17
<b>Dance</b>	05
<b>Defence &amp; Strategic Studies</b>	03

<b>Economics</b>	03
<b>English</b>	04
<b>Fine Arts</b>	07
<b>Forensic Science</b>	07
<b>Geography</b>	07
<b>Hindi</b>	01
<b>Historical Studies</b>	05
<b>History</b>	12
<b>Human Biology</b>	23
<b>Journalism and Mass Communication</b>	01
<b>Law</b>	15
<b>Linguistics &amp; Punjabi Lexicography</b>	22
<b>Mathematics</b>	08
<b>Music</b>	27
<b>Pharmaceutical Sciences and Drug Research</b>	14
<b>Physical Education</b>	06
<b>Physics</b>	23
<b>Physiotherapy and Sports Science</b>	19
<b>Political</b>	41
<b>Psychology</b>	21
<b>Public Administration</b>	08
<b>Punjabi Literary Studies</b>	18
<b>Punjab School of Management Studies</b>	17

<b>Punjabi</b>	05
<b>Sanskrit</b>	15
<b>Shri Guru Gobind Singh Department of Religious Studies</b>	32
<b>Shri Guru Granth Sahib Research Department</b>	10
<b>Social Work</b>	01
<b>Sociology and Social Anthropology</b>	01
<b>Statistics</b>	04
<b>Theatre and Television</b>	08
<b>Yadawindera College of Engineering, Talwandi Sabo</b>	02
<b>Zoology</b>	19

## **14. Citation index of faculty members and impact factor:**

All the University teachers are actively involved in research which is evident from the sanction of Research Projects to most of the teachers by National Agencies such as UGC, CSIR, DST, DRDO, AEC, MoHRD etc. Research papers of faculty members are published in journals of National and International repute having high Impact Factor. However, calculation of citation index and impact factor of individual teachers on the basis of laws of informatics need published sources that are not available in Punjabi University.

## 15. Honours/Awards to the faculty:

<b>Biotechnology</b>	Dr. RS. Singh (MASHAU Fellowship, Israel)
<b>Chemistry</b>	Dr. Ashok Malik (AvH Germany fellow)
<b>Commerce</b>	Dr. J.S. Pasricha awarded Shiksha Rattan Puraskar from International Friendship Society dated 12 July 2007 in the Seminar New Delhi at the Subject 'Role of Education in Modern India'
<b>Economics</b>	(a) Dr. Ranjit Singh Ghuman UGC Research awarded. (b) Dr. Sucha Singh Gill, University Guest Scholar for one month, University of Lund and Nordic institute of Asian Studies (NIAS) Denmark from June 1 to 30 June 2006.
<b>Education</b>	(a) Desh Sewa Rattan Award to Dr. Kirandeep Kaur. (b) Gian Jyoti Award and Best Citizen award to Prof. Meenakshi
<b>Gurmat Sangeet</b>	(a) Gurcharan Singh Tohra Memorial Award organized by Sikh Educational Society, 2007. (b) Honour Certificate from Shiromani Gurdwara Prabhandhak Committee, 2006
<b>Library &amp; Information Science</b>	(a) Ken Haycock Leadership Development Award to Dr. Jagtar Singh by International Association of School Librarianship (IASL). (b) "Roll of Honour" to Dr. Jagtar Singh in 2006 by the IASLIC. (Indian Association of Special Libraries and information Centres.
<b>Linguistics &amp; Punjabi Lexicography</b>	Dr. Joga Singh UGC Visiting Fellow.
<b>Music</b>	Appreciation Award for outstanding musical performance to Professor Rajinder Singh Gill at Leeds, U.K.

<b>Nawab Sher Mohammad Khan Institute of Advanced Studies in Urdu, Persian, and Arabic (Malerkotla)</b>	(a) Best Urdu Teacher Award to Dr. Tariq Kifayatullah by All India Urdu Educational Committee Hyderabad (Andhra Pradesh) (b) Lala Jagat Narayan Award by Lok Likhari Sabha (Regd.) to Dr. Rubina. (c) Best Printed Book Award (2006) by Language Dept., Punjab Government.
<b>Physics</b>	Bharat Jyoti Award to Dr. K.L. Allawadhi
<b>Physiotherapy and Sports Science</b>	Dr. A.G. Sinha, C.P. Nair Oration Award of IAP(For his excellent contribution in the field of Physiotherapy)
<b>Public Administration</b>	Vijay Shree award by India International Friendship Society to Dr. S.S. Tiwana.
<b>Punjabi</b>	Dr. Satish Kumar Verma has awarded Dr. Vishwa Nath Tiwari Punjab, Punjabi, Punjabiat award 2006 by Harpal Tiwana foundation
<b>Sanskrit</b>	Shiromani Purskaar for the year 2006 to Dr. Indermohan Singh from Punjab Govt. with the amount of Rs. one lac.
<b>Shri Guru Gobind Singh Department of Religious Studies</b>	(a) Dr. Rajsh Ranjan, President's Award for services to Pali Language and Literature. (b) Haryana Sahit Academy's State Award to Dr. Mohammad Habib for best book of the year.
<b>Theatre and Television</b>	Navindra Behl, awarded for contribution to theatre by India International friendship forum. A play 'Sada Jagon Seer Mukya' written and directed by Navindra Behl won national award at national intervarsity youth festival.
<b>Yadavindera College of Engineering Talwandi Sabo</b>	Prof. Amar Partap Singh awarded IETE Students Journal Award 2006 in the form of a Gold Medal and a Certificate for his Best Paper entitled, "Versatile Virtual Transducer Response Curve Tracer Based on Data-Acquisition Card" published in IETE Journal of Education by the Institution of Electronics and Telecommunication Engineers (IETE), New Delhi on October 01, 2006 at IETE Delton Hall, 2, Lodhi Road, New Delhi.
<b>Zoology</b>	E.K. Janaki Ammal National Award on Taxonomy conferred on Prof. M.S. Saini in October 2006.

## 16. Internal resources generated:

- (a) Expenditure of the University is increasing at a very fast rate every year but the State Government does not increase the grants accordingly rather imposes cuts on grants. Therefore, the University is all out to explore different sources as a result the funds generated each year from various resources are increasing. The total income from internal resources of the University during the last four years is given below:

Financial Year	Income
2003-2004	39,40,28,629/-
2004-2005	52,76,85,383/-
2005-2006	59,47,55,515/-
2006-2007	62,57,88,022/-

- (b) The University took a bold and noble step by starting Yadavindra College of Engineering at Talwandi Sabo. The College provides free quality education along with free boarding and lodging to the poor and real deserving students living in rural areas. Though the project involves crores of rupees but no fee is charged from the students and the Punjab/Central Government has not sanctioned any grant to the College. The College is running on liberal donations collected from different sections of society in India and abroad. The total collected during the current academic year are Rs. 3,63,93,222/-

### (c) Neighbourhood Campuses

The University established six Neighbourhood Campuses in educationally backward rural Areas. These campuses have been established on the land donated by the respective village Panchayats. **The cost of land is more than Rs. 31.2 crores.**

- (d) **The Prime Minister of India, Dr. Manmohan Singh sanctioned a grant of Rs. 10 crores for strengthening these Neighbourhood campuses.**

(e) Punjabi University, Patiala happens to be the first University to establish the department of Gurmat Sangeet and Gurmat Sangeet Chair in recognition to the teachings of the sikh Gurus. In addition to two years post-graduate courses of Gurmat Sangeet, students are taught all RAGAS in Sri Guru Granth Sahib and KIRTAN MARYADA. Studies relating to Sikh Religious Principles, practical training of Gurmat Sangeet and workshops on communication skills in English are part of the curriculum in order to meet the requirements at the global levels.

The building for the department of Gurmat Sangeet and the Gurmat Sangeet Chair is being constructed mainly in the basis of the donations form different religious organizations. The details of the funds collected for various purposes are given below:

Bhai jawala Singh ji Auditorium	Rs.16,59,366/-
Bhai Randhir Singh Online Gurmat Sangeet Library	Rs.20,00,000/-
One classroom in memory Sant Channan Singh ji	Rs.2,83,500/-
In memory of Sant Ishar Singh Rare Waale	CAD\$ 7,000/-
In memory of Shromani Ragi Bhai Uttam Singh ji	Rs. 2,83,500/-
One class room in memory of Bhai Surmukh Singh ji	CAD\$ 5,000/-
Seminar Hall in Memory of Shri Sant Singh Maskin	Rs. 4,15,787/-
In memory of Late S. Jasbir Singh by his mother	Rs. 2,72,300/-
For Computers to be established in Sant Sucha Singh Archives of Music at Gurmat Sangeet Bhawan by S.P.S Mann, Patiala	Rs. 1,01,000
For the purchase of String Instruments by SGPC	Rs. 51,000
For Audio-Visual Instruments in Sant Sucha Singh Archives of Music by S. Baldev Singh Vij, Ontario, Canada	Rs. 20,000
S. Jagdeep Singh Marhiya, Honkong (For Tanti Saaz, for Gurmat Sangeet)	Rs. 1,00,000

Due to the increasing cuts in the grants imposed by the State Government each year and the increasing expenditure of the University in all fields, the University made a provision of additional seats in the following most sought after departments for NRI/NRI-sponsored/Industry-sponsored students at elevated fees:

- (a) **Physics**
- (b) **Botany**
- (c) **Pharmaceutical and Drug Research**
- (d) **Library and Information Science**
- (e) **Bio-technology**
- (f) **Forensic Science**
- (g) **Physiotherapy and Sports Science**

- (h) Chemistry**
- (i) Zoology**
- (j) Physical Education**
- (k) Punjab School of Management Studies**
- (l) University College of Engineering**

Earning from these seats at the University College of Engineering and Punjab School of Management Studies are 1.7 crores and 1.4 crores respectively per year and the departments like Biotechnology, Chemistry etc. have each recorded the earnings upto 30 lacs per year.

Repreatory Theatre wing of Department of Theatre and Television contributed Rs. 12,57, 695/- earned from its performances in different parts of the State. The wing also contributed Rs. 2, 28,770/- for golden heart scholarship for rural students.

In addition, the Department of Physiotherapy and Sports Science is running a Physiotherapy OPD where 65 to 100 patients are treated daily and minimal amount of charges are being taken for the treatment which generates an income of Rs 2000/- to 3000/- daily that could be used for the up-liftment of the Department.

Every Year more than 50% of the University departments hold Conferences, Seminars or work shops. The major expenditure of such events is generally by the departments of their own.

## **17. Details of SAP, COSIST (ASSIST)/DST, FIST, etc. assistance/recognition:**

- (a) The following departments are already getting grants under special Assistance Programme of UGC:**

<b>Departments</b>	<b>Non-recurring</b>	<b>Recurring</b>
<b>Computer Science</b>	Rs. 18 lacs	Rs. 4.1 lacs +2 Project fellows on actual basis.

<b>Botany</b>	Rs. 8 lacs	Rs. 4.3 lacs
<b>Punjabi</b>	Rs. 4.0 lacs	Rs. 8.40 lacs
<b>Economics</b>	Rs. 1.7 lacs	
<b>Physics</b>	Rs. 20 lacs	Rs. 1.12 lacs

- (b) **The following departments are getting grants from UGC under ASIHSS/ASIST programmes:**

<b>Departments</b>	<b><u>Non-recurring</u></b>	<b><u>Recurring</u></b>
<b>Botany</b>	Rs. 40 lacs	Rs. 3.4 lacs
<b>Punjabi</b>	Rs.25.0 lacs	Rs. 16.0 lacs
<b>Economics</b>	Rs. 6.28 lacs	Rs. 1.49 lacs

- (c) **The UGC Sanctioned grants under Special Assistance Programme to the following Departments during this financial year:**

<b>Departments</b>	<b><u>Non-recurring</u></b>	<b><u>Recurring</u></b>
<b>Chemistry</b>	Rs. 36.50 lacs	Rs. 5.5 lacs

<b>Zoology</b>	Rs. 15.7 lacs	Rs. 19.0 lacs+2 Project Fellows (on actual basis)
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- (d) **Department of Bio-Technology received a grant of Rs. 10 lacs from DST under FIST.**
- (e) **Department of Computer Science received a grant of Rs. 15 lacs from DST under FIST programme out of the total approved grant of Rs. 25 lacs.**
- (f) **The following department had also applied during the current academic year for grants under Special Assistance Programme:**

1. Commerce
2. Statistics
3. Psychology

However, these departments could not be successful in getting grants under SAP.

## 18. Community services:

The details of the community services rendered by different University departments are given below:

<b>Physical Education</b>	Organized camps for Yogic Practices and human Consciousness
<b>Physiotherapy and Sports Science</b>	Department is running a Out Patient Department(OPD) where Patients with different disorders like Neurological, Musculoskeletal, Cardio respiratory Dysfunctions are being treated by various Electro therapy and Exercise therapy equipments and Manual techniques by the specialized therapists . Department organizes free Physiotherapy Camps from time to time for community service. Department is also providing free consultation to the people regarding Health Fitness, Obesity, Diet and Nutrition. Department has purchased a mobile van which is used to organize Health awareness camps and to provide treatment to the patients in far off rural areas.
<b>Library &amp; Information Science</b>	Assisted Dr. Jaswant Singh in developing mobile library service in rural areas in Ahmedgarh, Punjab.
<b>Psychology</b>	<ol style="list-style-type: none"> <li>i) Rural Counseling Camp at Village Jogi Pir Ralla.</li> <li>ii) Counselling Services for the Girls Hostel at Talwandi Sabo.</li> <li>iii) Free Psychological Testing and Counselling Services for the University students and staff at the annual event 'Psychofest'.</li> </ol>
<b>Linguistics &amp; Punjabi Lexicography</b>	Initiated Language and Culture Immersion Programme for Overseas Punjabis.
<b>Education</b>	Department offered services to community for environmental awareness, personal hygiene, etc.

<b>Journalism and Mass Communication</b>	Teachers and Students organized Camps on anti-female foeticide awareness.
<b>Law</b>	Organised Legal Awareness Camp.
<b>Gurmat Sangeet</b>	<p>As a community service, Department has started different Keertan performances in India &amp; abroad. From time to time, teachers &amp; students of the department having the honour to perform Keertan at Darbar Sahib Amritsar for worldwide live telecast. Our students participated in the Keertan Sammagam arranged by SGPC at Taran Taran Sahib regarding Tri-century celebrations of Sri Guru Granth Sahib. Our students also performed at Bangla Sahib, New Delhi.</p> <p>To provide community the original &amp; authentic tradition of Gurmat Sangeet, Department of Gurmat Sangeet has started a training program of Kirtankars of Sri Darbar Sahib, Golden Temple, Amritsar.</p> <p><b>Gurmat Sangeet Taksal, Punjabi University Patiala",</b></p> <p>A Kirtan Reperatory is being established to promote and preserve Gurmat Sangeet. For this purpose, young keertankars related with field of Gurmat Sangeet are being recruited. Punjabi University Syndicate has approved this Kirtan Reperatory program under the name of "<b>Gurmat Sangeet Taksal, Punjabi University Patiala</b>".</p>

## 19. Teachers and officers newly recruited:

### (a) Non teaching staff (2006-07)

<u>Name of the Post</u>	<u>Regular</u>	<u>Adhoc</u>	<u>Contract</u>	<u>Total</u>
Clerk / Data Entry	09	32	-	41
Peon	02	29	06	37
Daftri	44	-	-	44
Lib. Assistant	15	-	-	15
Jr. Technician Asst.	04	03	-	07
Lab Attendant	-	15	09	24
Shop Attendant	-	01	01	02
Unit Helper	-	-	01	01
Field Helper	-	-	01	01
SDO(Horticulture)	01	-	-	01
System Analyst	04	02	01	07
Medical Officer	01	01	01	03
Assistant Security- cum-Transport Officer	-	02	-	02
Warden	03	-	01	04
Director, University Computer Center	01	-	-	01
SDO	01	-	-	01
System Analyst	-	-	01	01
Superintendent	-	-	02	02
Junior Research Officer	-	-	01 (03 months)	01
Steno-Typist	-	07	-	07
Technical Assistant	-	06	01	07
Production Assistant	-	01	-	01
Workshop Instructor	-	03	-	03

Proof Reader	-	01	-	01
Computer Instructor	-	01	-	01
Assistant System Analyst	-	01	-	01
Junior Engineer	-	02	-	02
Data Entry Operator	-	02	02	04
Tech. Grade-I	-	01	-	01
Coach	-	01	-	01
Copy Holder	01	-	-	01
APRO	01	-	-	01
Store Keeper & Purchase Assistant	01	-	-	01
Driver -cum- Conductor	02	-	07	09
Lib. Restorer	-	05	05	10
Sweeper	-	12	-	12
Ground man	-	01	-	01
Martermate	-	-	01	01
Xerox Attendant	-	01	-	01
Ward Attendant	-	01	-	01
School Teacher	08	-	-	08
Assistant Librarian	03	-	-	03
<b>Total</b>	<b>101</b>	<b>131</b>	<b>41</b>	<b>273</b>

**(b) Teachers newly recruited (2006-2007):-**

<u>Name of the Post</u>	<u>Regular</u>	<u>Adhoc</u>	<u>Contract</u>	<u>Total</u>
Professor	06	-	-	06
Reader	13	01	01	15

Lecturer	64	43	05	112
Lecturer(Neighbourhood Campuses)	01	03 (02 Leave vacancy)	23	27
<b>Total</b>	<b>84</b>	<b>47</b>	<b>29</b>	<b>160</b>

## 20. Teaching-Non-teaching staff ratio:

Teaching total staff = 644

Non-Teaching total staff= 2229

**Ratio 1:3.5**

## 21. Improvements in the library services:

University Library is the Life-line of the University. It caters to the requirements of all the teaching and research departments. During the 2006-07 the Library made consistent efforts to reach out its clientele and made headway in modernizing its services.

The following steps are taken to enhance the effectiveness of Library:

- (a) Online public Access Catalogue (OPAC) of books and periodicals has been made available through LAN to each department.
- (b) To assist the readers in their searches, apart from Reference Desk the Online Catalogue is manned by one of the staff members.
- (c) The 'website' of the library is being updated periodically.
- (d) Current and backsets of database of Periodicals and Thesis is also available on line.
- (e) A database of CDs has been prepared.
- (f) With the help of Web Based Version of 'LIBSYS' the catalogue of various documents in English has been made available on the Net.

(g) A separate database for manuscripts is available.

**Strengthening of Library Services:**

- (a) Journals are being received both in Print and Electronic form. Under the UGC-Infonet programme access to e-Journals has been provided. Library is linked to Connect, under the UGC-Infonet programme, Ernet connection has also been provided to facilitate the users.
- (b) A separate Internet Lab has been established to facilitate the users, 12 systems are available to users, feedback is being taken regularly and the difficulties are solved on a regular basis Ten Thousand users.
- (c) The database of the library is a part of the National Bibliographic database of delnet.
- (d) The CDs available in the library are copied for users, on their request in the Library.
- (e) The membership of the Library increased to 10,000 during 2006-07. Approximately one lac books were borrowed and returned every year.
- (f) Library Orientation Programmes were conducted during the first quarter of each academic session. These programmes were guided by the Senior Professional Staff of the Library. Students were also accompanied by the Faculty members of each department.
- (g) Each Stack Area is being supervised by the staff on duty. The staff assists for location of the relevant documents.
- (h) Inter-Library Loan Services have been strengthened. Library is a member of the DELNET and participates in the INFLIBNET programmes. The requirements of the Researchers are also fulfilled through other institutions.
- (i) The security of the library has been strengthened.
- (j) Reference Service is being provided manually as well as through Internet.
- (k) 30,000 users were provided personal assistance.
- (l) The photocopying services have been improved. The timings of the Section have been increased from 9:00 am to 7:00 pm. Three persons from the staff remain on duty on six days of the week. 98,000 flashes were photocopied during this period. Torn pages of books were also photocopied and inserted in the books.

### **Dr. Ganda Singh Punjabi Reference Library :**

- (a) Approximately 10,000/- users used the Library.
- (b) About 3,000 outsiders (non-members) used the library for study and research work.
- (c) Indexing Service in Punjabi was also circulated to the Scholars in the field of Punjabi Literature, Languages, Sikhism, History and Punjabi Culture.

Topical exhibitions were organized on eventful days, i.e., Festivals, important National/International days and also during Seminars, Conferences etc. Current awareness services; Periodicals received this month; List of New Additions List of Books received in the library is circulated on regular intervals.

To enhance the effectiveness of the Library Services following special measures were taken:

- (a) Library staff has been trained to provide computerized, reference, circulation and bibliographic services. To improve their skills the professional and para-professional staff were encouraged to attend various courses at local and national level. Ten members of staff attended the training programme at local level. The senior staff members attended conferences and seminars. Two staff members attended a course on 'Web Designing for Librarians'.
- (b) A catalogue of rare books and microfilms has been compiled under the National Mission for Manuscripts.
- (c) Digitization of documents is under way.

## **22. New books/journals subscribed and their value:**

- (a) To enrich the existing collection the eminent persons in the field of Sciences, Social Sciences and Humanities are requested to donate their collections. Prof. S.S. Bir, F.N.A., Prof. Rattan Singh Jaggi, and Dr.Surinder Kaur Ji donated their personal collections. Dr. S.S. Guraya, Prof. Rajpal, Dr. Harnam Singh Shan have also expressed their desire to donate their personal rich collections to the Library.
- (b) During the current year, 487 journals were subscribed and library paid an amounts of Rs. 45,00,000 as subscription. 48 journals (cost Rs. 27,00,000/-) were made available online by INFLIBNET through UGC-Infonet Programme. In addition to this 114 journals have been received as gratis.

(c) 9326 documents were added to library collection and the cost of these documents is Rs. 64,53,592/-. The total collection rose upto 4,55,636/- during this year.

(d) The lending services have been strengthened.

## **23. Courses in which student assessment of teachers is introduced and the action taken on student feedback:**

The University plans to introduce the student assessment of teachers in various departments from the next academic year.

## **24. Unit cost of education:**

**Unit Cost of Education is Rs. 45987/-**

## **25. Computerization of administration and the process of admissions and examination results, issue of certificates:**

The prospectus of the University which includes eligibility conditions, fees and other charges, important dates, method of preparing merit for admission, admission forms and all other rules and regulations relating to admissions to all courses run by the University are given on the University website about a month earlier to the last date of submission of admission forms in the respective departments. The admission forms can be downloaded directly from the University website.

In most of the University departments the merit for admission, lists of the admitted candidates and candidates in the waiting lists are also displayed on the University website. Such lists include all the details, e.g., the cut-off date/time for the merit/waiting list to deposit the fee so that the candidates in the next waiting list be informed.

Most of the examination work (starting from the preparation of cut-lists to the issue of certificates) of the major University examinations has already been computerized the details are discussed under the heading: **Examination reforms implemented.**

The administrative work in most of the teaching departments has already been computerized. Steps are being taken to computerize the administrative work of Registrar's office also. But it will be completed in phases. The University Computer Centre gives free Computer training to the employees.

## 26. Increase in the infrastructural facilities:

### WORK COMPLETED / UNDER CONSTRUCTION IN YEAR 2006-2007.

#### PUNJABI UNIVERSITY CAMPUS:

Description	Estimated Cost.	Up to date Expenditure as 28/2/2007	Status	Remarks.
Construction of Teaching Block of U.C.O.E Providing Electrical Installation	Rs. 8,53,66,000	Rs.3,19,20,731/-  <u>Rs. 82,45,119/-</u> <b>Rs.4,01,65,850/-</b>	Work in Progress	It is ten story framed structure.
Construction of Girls Hostel of U.C.O.E Providing Electrical Installation	Rs.5,95,14,600/-	Rs.3,37,23,146/- <u>Rs. 39,10,178/-</u> <b>Rs.37633324/-</b>	Work in Progress	It is Eight story framed structure.
Construction of Multi Storey Boys Hostel of U.C.O.E Providing Electrical Installation	Rs. 5,95,14,600/-	Rs.3,75,31,241/-  <u>Rs. 36,54,477/-</u> <b>Rs. 4,11,85,718/-</b>	Work in Progress	It is Eight story framed structure.
Construction of Revaluation Building Admn. Block -1	Rs.2,30,56,800/-	Rs.30,5,500/-	Work in Progress	It is a Four story framed structure.

Construction of Religious Studies and Encyclopaedia of Sikhism in Gurmat Sangeet Bhawan Providing Electrical Installation	Rs.15,97,000/-	Rs.12,42,329/-  <u>Rs. 95,35,554</u> <b>Rs. 13,32,684/-</b>	Work in Progress	It is a Four story framed structure.
Construction of Linguistic / Koshkari cell, Shri Guru Granth Sahib Studies in Gurmat Sangeet Bhawan	Rs. 21,88,000/-	Rs.15,61,096/-  <u>Rs. 97,829.73</u> <b>Rs. 16,58,925.73</b>	Work in Progress	It is a Four story framed structure.
Construction of Balance work of Gurmat Sangeet Bhawan at Punjabi University Patiala.	Rs. 14,51,500/-	Rs. 1,09,274/-	Work in Progress	It is a Four story framed structure.
Construction of Boys Hostel of C.C. Department and Sports Departments.	Rs. 17447400/-	Rs.2,08,845/-	Work in Progress	It is a Four story framed structure.
Widening of Road from Guest House to B- type Houses.	Rs.7,32,600/-	Rs. 1,28,376/-	Work in Progress	
Construction of J.E.'s office in Horticulture Department.	Rs. 3,47,700/-	Rs. 41,452/-	Work Completed	Single storey
Construction of New Toilet Block and Renovation of Existing toilets in Boys Hostel	Rs.35,11,400/-	Rs. 3,56,261/-	Work in progress	It is a Four story structure.
Providing Civil work in Physiotherapy Lab of Sports Science department Providing Electrical Installation	Rs. 298000/-  <u>Rs. 51800/-</u>	Rs. 74,181/-  <u>Rs. 22,955/-</u> <b>Rs. 97,136/-</b>	Work Completed	

Construction of Parking Bays, foothpath and improvement of Land Scaping around Gole Market	Rs.15,25,755/-	Rs. 2,31,156/-	Work in progress	
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### TALWANDI SABO

Construction of Director Residence Providing Electrical Installation	Rs. 20,08,200/-	Rs. 14,83,708/- <u>Rs. 97,646/-</u> <b>Rs. 15,81,354/-</b>	Work completed	It is Two storey structure.
Providing and fixing aluminium glazing external at Information Technology building Providing Electrical Installation	Rs. 26,60,800/-  Rs.51,28,400/-	Rs. 23,68,133/-  <u>Rs. 32,33,861/-</u> <b>Rs.56,01,994/-</b>	Work completed	
Furnishing of electronic and computer lab at Information Technology building	Rs. 47,01,300/-	Rs. 33,51,255/-	Work completed	
Construction of Boys Hostel (Ist Phase) Multi storey Providing Electrical Installation	Rs. 5,95,14,600/-	Rs.4,22,47,692/-  Rs. <u>19,45,182/-</u> <b>Rs. 4,41,92,874/-</b>	Work in progress	It is Eight story framed structure.
Construction of boundary wall in Guru Kashi Campus	Rs.23,82,000/-	Rs. 7,23,034/-	Work in progress	
Construction of boxing shed in Guru Kashi campus	Rs. 2,00,000/-	Rs. 2,00,000/-	Work Completed	
Construction of Multi storey Teacher flats	Rs. 3,50,00,000/-	Rs. 2,50,000/-	Work in Progress.	It is eight story frame structure.

**RAMPURA PHUL**

Construction of toilet block for Girls	Rs. 3,71,500/-	Rs. 3,40,000/-	Work completed	
Construction of Boys Hostel of Engineering college Providing Electrical Installation	<b>Rs. 1,80,87,400/-</b>	Rs.2,63,52,325/- <u>Rs. 6,21,512/-</u> <b>Rs.2,69,73,637/-</b>	Work in Progress	It is four story building
Construction of Girls Hostel of Engineering College Providing Electrical Installation	Rs.1,80,87,400/-	Rs.2,47,69,825/- <u>Rs. 6,39,570/-</u> <b>Rs. 2,54,09,395/-</b>	Work in Progress.	It is four story building

**KARANDI**

A/A of Neighbourhood Campus in Panchayat Ghar. Providing Electrical Installation	Rs.21,70,650/-	Rs. 3,91,487/- <u>Rs.6,97,370/-</u> <b>Rs.10,88,857/-</b>	Work completed	
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**SARDOOL GARH**

Furnishing of Computer Providing Electrical Installation	Rs. 9,91,000/-	Rs.1,65,000/- <u>Rs.35,99,68/-</u> <b>Rs.5,24,968/-</b>	Work completed	Single story
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**JHUNEER**

Construction of toilet block Providing and fixing of vitrified tiles Providing Electrical Installation	<b>Rs. 4,75,800/-</b>	Rs. 5,01,636/- Rs. 4,61,965/- <u>Rs. 2,54,037/-</u> <b>Rs. 6,16,002/-</b>	Work completed	Single story
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**DEHLA SIHAN**

Civil work Providing and fixing wood work, Public Health work computer table and paint etc Providing Electrical Installation	Rs.12,00,600/-	Rs. 16,313/- Rs. 94,052/- <u>Rs. 4,22,212/-</u> <b>Rs. 5,16,274/-</b>	Work Completed	
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**JOGI PEER**

A/A Baba Jogi peer Neighbourhood Campus Providing Electrical Installation	Rs. 18,88,500/-	Rs.2,51,000/- <u>Rs. 6,87,938/-</u> <b>Rs. 9,38,938/-</b>	Work completed	
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In addition to the above construction work, new research/practical laboratories in various departments of the University have been established and the existing laboratories are updated by adding new instruments keeping in view the needs of the day. Though most of the departments already have their own computer laboratories and the administrative work of the departments is also computerized, still efforts have been done to update the IT facilities in the departments by adding more computers, laptops, multimedia projectors etc. The summary of the facilities added during the 2006-2007 academic year in the individual departments is given below:

<b>Department</b>	<b>Description of the Work</b>
<b>Advanced Centre for Technical Development of Punjabi Language, Literature and Culture</b>	(a) Laptops = 01 (b) Computers = 05 (c) Printers = 01 (d) Scanner =01
<b>Biotechnology</b>	(a) Construction of baby boiler room and pilot plant for fermentation. (b) Common facilities such as a seminar hall, an auditorium and photocopier added to the department. (c) Strengthening of Bioinformatics lab, purchase of sophisticated instruments like sonicator.
<b>Botany</b>	<b>Setting up of new labs:</b> (a) Bio-informatics, (b) Molecular Genetics (c) Mycology & Plant Pathology (d) Algal Physiology (e) Upgradation of Labs.: (f) M.Sc. Part-II Practical Lab. (g) Seminar Hal (h) Plant Physiology Lab. (i) DRS Central Instrumentation Lab. (j) Up gradation of Library. (k) Purchased new books and journals for more than Rs.2 lacs.

<b>Chemistry</b>	2 UV-VIS Spectrophotometers and other instruments worth Rs. 4 lac were installed.
<b>Commerce</b>	Added 02 computers and 152 books in students Book Bank.
<b>Computer Science</b>	(a) Laptops = 12 (b) Computers = 29 (c) Printers = 05
<b>Fine Arts</b>	A skeleton for Anatomy study, D.V.D for Audio Visual Aid, Minature tables for students.
<b>Human Biology</b>	Three new Computers have been installed.
<b>Journalism and Mass Communication</b>	(a) Started Audio Editing Table (b) setup the departmental library for students
<b>Library &amp; Information Science</b>	Five Pentium computers added to the departmental computer laboratory.
<b>Linguistics &amp; Punjabi Lexicography</b>	(a) Koshkari Lab. (b) Computers for Teaching Staff
<b>Nawab Sher Mohammad Khan Institute of Advanced Studies in Urdu, Persian, and Arabic, Malerkotla</b>	Networking of Computer Lab established in the department.
<b>Pharmaceutical Sciences and Drug Research</b>	(a) One Spectrofluorimeter installed. (b) Transepidermal Water Loss Measurement Equipment. (c) Autoamolyzer (d) Microscope with photographic arrangement. (e) Networking in all teachers rooms (f) 07 P-IV Computers with dual core processor installed.
<b>Physics</b>	(a) Parallel processing computation laboratory, (b) High resolution semi conductor HPGe (c) Si(Li) detectors, enhancement of multimedia facility
<b>Physiotherapy and Sports Science</b>	(a) A separate fully functioning Physiotherapy O.P.D has been established at the Health Center of the University campus to cater the needs of the public for their neuromusculoskeletal problems. Many new instruments have been installed to provide quality treatment and to form the basis of the advanced research. The following separate sections in the department have been established

	<p>to emphasise the benefit of each and every discipline of Physiotherapy and Sports Sciences:</p> <ol style="list-style-type: none"> <li>1. Exercise therapy</li> <li>2. Electrotherapy</li> <li>3. Advanced Electrotherapy</li> <li>4. Yoga hall</li> <li>5. Exercise Biochemistry</li> <li>6. Exercise Physiology</li> <li>7. Neurophysiology</li> <li>8. Anthropometry</li> <li>9. LC D Projector</li> <li>10. Computers facilitates for all teachers in their respective rooms.</li> <li>11. Three computers in departmental library and one computer in Anatomy Lab.</li> <li>12. Two computers in Physiotherapy O.P.D.</li> </ol> <p>Separate rooms have also been made available for all the teaching staff.</p>
<b>Public Administration</b>	03 computers had been installed.
<b>Punjab School of Management Studies</b>	<ol style="list-style-type: none"> <li>(a) Air Conditioners have been installed in all the class-rooms.</li> <li>(b) 60 new Pentium IV HP Machines and 3HP laptops have been added to the existing Computer Labs</li> </ol>
<b>Punjabi</b>	A computer lab has been established under ASI HSS in the departmental library. It will be shifted to the room earmarked for computer lab after receiving grant for renovation by the UGC.
<b>Statistics</b>	Computers-4, UPS-4
<b>Theatre and Television</b>	<ol style="list-style-type: none"> <li>(a) Editing set up Nonlinear) for editing T.V. programmes and training.</li> <li>(b) A T.V. camera for training of shooting video films.</li> <li>(c) A computer with latest configurations.</li> </ol>
<b>University College of Engineering</b>	<ol style="list-style-type: none"> <li>(a) Computer lab (40 Pentium IV machines + server),</li> <li>(b) SIMS lab,</li> <li>(c) HMT lab,</li> <li>(d) Sand Testing lab,</li> <li>(e) CAD lab,</li> <li>(f) Digital system design lab,</li> <li>(g) DSP lab, Microwave lab,</li> <li>(h) Communication System –II Lab,</li> <li>(i) Fibre Optic Comm. Lab,</li> <li>(j) Wireless Comm. Lab,</li> </ol>

<b>Yadawindera College of Engineering, Talwandi Sabo</b>	<ul style="list-style-type: none"> <li>(a) Microprocessor Applications Lab.</li> <li>(b) Communication Systems Lab.</li> <li>(c) Power Electronics Lab.</li> <li>(d) Digital Signal Processing Lab.</li> <li>(e) Optical Fibre Communication Lab.</li> <li>(f) Heat Transfer Lab.,</li> <li>(g) Strength of Materials Lab.</li> <li>(h) Computer Aided Designed Lab.</li> <li>(i) Computer Integrated Manufacturing Sciences Lab.</li> <li>(j) Machining Sciences Lab.</li> <li>(k) Fluid Machines Lab.</li> <li>(l) Refrigeration &amp; Air Conditioning Lab.</li> <li>(m) Relational Data Base Management System Lab.</li> <li>(n) Internet Lab.</li> <li>(o) Computer Centre</li> <li>(p) Operating System Lab.</li> <li>(q) Communication Skill Lab.</li> </ul>
<b>Zoology</b>	Ten new computer & Grant of 18 Lac was used to install Entomological work station and PCR etc.

## 27. Technology upgradation:

<b>Correspondence Courses</b>	<ul style="list-style-type: none"> <li>(a) Desktop computers from P-I (64 MB RAM and 20 GB HD etc) have been upgraded to P-IV (256 MB DDR RAM and 80 GB HD etc)</li> <li>(b) HCL Net Manager Server</li> <li>(c) HP 1320n (Network Printer) Laser Printers</li> <li>(d) HP 1010 Laser Printers</li> <li>(e) Sharp-420 U digital Photocopier ( Printer, Copier)</li> <li>(f) HP Core Duo Laptop</li> <li>(g) Canon LCD Projector</li> <li>(h) DVD</li> <li>(i) Sony Handy cam</li> <li>(j) Sony 29 inches TV</li> <li>(k) HP LaserJet MFD</li> <li>(l) Structured and Wireless Networking of all the Department</li> <li>(m) OHP's</li> <li>(n) Mike Facilities in the class room</li> </ul>
<b>Education</b>	Set up a computer Lab having 12 Computers, Multifunctional Printer, Laptop and L.C.D Multimedia Projector.

<b>Journalism and Mass Communication</b>	Department upgraded the computer lab by purchasing four computers for Students and Teachers. The department also provided the facilities to the students like DTH services for analyses of news and various TV programmes
<b>Music</b>	The Department has two computers with internet connection.
<b>Physical Education</b>	Established Sports Psychology Lab. Provided computer and Multi Media Projector to make teaching and learning more effective.
<b>Physics</b>	(a) Parallel processing computation laboratory with updated software facilities. (b) High resolution semiconductor HPGe Si (Li) detectors. (c) enhancement of multimedia facilities.
<b>Physiotherapy and Sports Science</b>	The department has purchased and installed the following equipments & gadgets to upgrade the various sections: (a) Laser (b) Microwave diathermy (c) Pulsed shortwave diathermy with disc electrodes (d) Complete electrotherapy unit (e) TENS 2-Channel table model (f) IFT computerized digital display (g) Electrical stimulators – 10 (h) IRR Stand (i) UVR (j) Traction Unit (Cervical+Lumbar) (k) Hand exerciser table (l) Thera tubes (4 sets) (m) Ankle exercisers (n) Goniometers (full circle, half circle, finger goniometer) (o) Quadriceps exerciser with back support (p) Cryotherapy unit with packs (regular, double, cervical) (q) Histology slides (r) Anatomy charts (s) Articulated and disarticulated skeletons (t) Anatomy softwares
<b>Psychology</b>	All the three labs of the department (Experimental, Psychometric and Bio- Feed Back ) have been upgraded with new apparatuses like polygraph, Lie- detector etc. and new Psychological tests.
<b>Punjab School of Management Studies</b>	Video-Conferencing has been installed in the PSMS.

<b>Punjabi</b>	All teachers were provided with Laptop under ASIHSS
<b>Shri Guru Gobind Singh Department of Religious Studies</b>	Computer Purchased.
<b>University College of Engineering</b>	Purchased MSDN package, TurboC++ compiler
<b>Yadavindra College of Engineering Talwandi Sabo</b>	Campus Wide Networking under Progress in the form of Internet Backbone supported by Optical Fiber.

## 28. Computer and internet access and training to teachers and students:

- (a) Computer courses are part of the curriculum in most of the departments. As the University teaching departments are equipped with computer laboratories, therefore, in addition to the practical training, the students have free access to computer and internet facility.
- (b) Different research laboratories, especially in science departments are also equipped with computer and internet facilities. So the research students also have free internet access for 24 hours in their own research laboratories.
- (c) **Almost all the teachers of Science department and many teachers of Arts faculty have computers with internet access and printer in their own rooms/offices.**
- (d) The University has set up different cyber laboratories in the Campus. These laboratories are open for the students from 8.00 am to 10.00 pm for internet access at very nominal charges.
- (e) Internet access to all the computers (in various teaching/ research/ cyber laboratories and teachers rooms) is available @ 2 MBPS for 24. However, in the University College of Engineering Gigabit network backbone, dedicated high speed internet facility is available.
- (f) University Computer Centre organizes short-term computer courses for imparting free training to University employees, teachers and research scholars.
- (g) University always encourages the teachers to attend the information and Communication Technology (ICT) courses organized by different agencies in the

country. During the current academic year several teachers of Punjabi University attended different "e-Content Development Programmes in Various Domains", organized by Consortium for Educational Communication, New Delhi.

## **29. Financial aid to students:**

### **Free Technical Education to Poor Rural Students:**

Punjabi University, Patiala has taken a lead in bridging the widening gulf between privileged and under-privileged by imparting free technical education to bright and very poor students from rural areas. To fulfill the dream of Sri Guru Gobind Singh ji to make Talwandi Sabo as Guru Ki Kashi, Punjabi University has taken this major step by establishing Yadavindra College of Engineering (YCoE) at its Regional Campus at Talwandi Sabo. With the increasing costs of Technical Education, poor parents especially from rural areas are unable to afford even the minimum required fee for these Courses, hence the Punjabi University is making efforts to raise interest-free loan scholarships from benevolent donors and institutions to provide free education to such students.

### **Fee Concession:**

Full fee concession is available to the needy and deserving students up to 8% of the total number of students in a class including 2% for the students belonging to Scheduled Castes/Scheduled Tribes and other approved Backward Classes. Scheduled Caste students in excess of 2% are granted exemption from payment of tuition fee by the State Government under the State Harijan Welfare Scheme. Students whose parents income is less than Rs. 1 lac per annum are eligible for full fee concession and those having income between Rs. 1-2 lacs per annum are eligible for half fee concession.

### **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. Interest free loans are also granted to the deserving students subject to the availability of funds.

Concession for the children of the Employees of Defence Services and Civilian Personnel are available as under:

- (a) Full fee concession in all the University Teaching Departments.
- (b) Text-books on loan for the duration of the course from the Text Book Section of the Library (These books are returned by them after they have completed the examination).
- (c) They also get free lodging in the hostel and pay only for their boarding.

Such concession is given to the following category of children of the Defence and Civilian Employees:

- (a) 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/- per month.
- (b) 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.
- (c) The University has also adopted Punjab Govt. letter No. 19-2-1987, I-Edu.-4, 1386-92, dated 30-4-1990 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 40% handicapped due to riots and the children of Sikh migrants.

### **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:

- (a) Merit Scholarship under the National Merit Scholarship Scheme sponsored by the Centre and the State Governments.
- (b) Merit Scholarship awarded on the basis of result of examination conducted by the Punjabi University.
- (c) Stipends to children/grand-children of Freedom Fighters, Ex.I.N.A. personnel and to those sponsored by the Treasure, Charitable Endowment, Punjab.

### **Departmental Merit Scholarships**

Scholarships of the value of Rs. 250/- each per month are available for the post-graduate courses, B.Pharm., B.Tech. and LL.B in the University Teaching Departments. The details are as under:

- (a) Each course has a minimum of one scholarship that is given on merit basis.
- (b) The departmental merit scholarship is granted to the student admitted at the top in order of merit. In the subsequent year(s,) it is awarded on the basis of the result of the annual examination, provided that the duration of the course is more than one year.
- (c) Scholarship is disbursed on quarterly basis through the Head of the Departmental who prepares the bill(s) and give an attestation that the attendance and conduct of the scholarship awardees/claimant during that period was satisfactory.

### **UGC National Scholarships for M.A. (Economics)**

Ten UGC National Scholarships (4 and 6 in alternative years) of Rs. 250/- 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) courses 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.

### **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 Rs. 250/- per month for the duration of two years. The need and merit of the student is 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 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 and have secured the first position

among the students admitted under this category. The scholarship once granted to a student continues in the second and Third year also subject to his/her satisfactory performance in academic achievements (in no case, the standard of merit of last examination shall fall below 60%) and good conduct.

**Varinder K. Jassal Scholarships:**

- (a) Varinder K. Jassal Scholarship for M.A. (Economics) part I & II.
- (b) Varinder K. Jassal Scholarship for M.B.E. part I & II.
- (c) Varinder K. Jassal Ph.D. fellowship for Economic Studies.

Terms and conditions of these scholarships are as given below:

- (a) Amount of each scholarship for M.A./M.B.E. is Rs. 250/- per month per student.
- (b) The scholarship is awarded on the basis of merit of the student.
- (c) The scholarship is sanctioned by the Dean, Academic Affairs on the recommendations of the Head of the Department.
- (d) While awarding the scholarship, the rest of the rules is the same as that of the University Departmental Merit Scholarship.
- (e) The amount of fellowship for Ph.D. is Rs. 2200/- per month plus Rs. 5000/- annual contingency.
- (f) The Ph.D. fellowship is awarded by advertising in the newspapers.

**Goyal Foundation Award**

- (a) One scholarship each is awarded to the student of M.B.A. & M.Sc. (Zoology) Part II classes.
- (b) This award shall be for the student who tops in the merit list of M.B.A. part I and M.Sc. (Zoology) Part I Examination.
- (c) The remaining terms and conditions are as per University rules in this regard.

**Sant Baba Bakhtawar Singh Memorial Scholarship (for Religious Study Department)**

- (a) The scholarship is awarded on the basis of merit of the student.
- (b) Amount of the Scholarship is Rs. 12000/- per year per student.
- (c) The Scholarship awarded by the Vice-Chancellor on the basis of the recommendations of properly constituted A.A.C.D. of the Department through Dean Academic Affairs.
- (d) The scholarship is awarded to a student having a good conduct. If the conduct of the student is not satisfactory the scholarship is made available to the student next in order of merit.
- (e) The rest of the rules are the same as that of the University Departmental Scholarship.

**Scholarship for Blind and Handicapped Students**

Five stipends of Rs. 250/- each are available for the blind and physically handicapped students of the post-graduate classes provided further that a candidate provide 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)**

- (a) The scholarship awarded to the two girl students (one from M.A. part-I and one for M.A. Part-II) of Political Science Department on the basis of merit of the student.
- (b) Amount of the Scholarship shall depend on the interest of Rs. 2,00,000/- deposited in the bank by donor.
- (c) The scholarship awarded to those students who are brilliant in the study and the yearly income of their parents/guardian does not exceed Rs. 1,50,000/-.
- (d) The rest of the rules will be that of the University Departmental Scholarship.

**Master Ekant Memorial Scholarship**

- (a) The scholarship awarded to M.Sc. (Applied Physics) Part-I and Part-II on the basis of Merit of the Student.
- (b) Amount of the Scholarship is Rs. 250/- per month.

- (c) 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.

### **Department of Music**

Two students were given financial aid @ Rs. 4200/- per students from within the students aid fund of the University.

Three students of the University were given scholarship worth Rs.1000/- per month for four years (Total 3000 \$) by the Punjab Heritage Foundation (USA) on the occasion of the Annual Punjab Lok Sangeet Mela.

### **Department of Gurmat Sangeet**

Nishkam Sikh Welfare Council of New Delhi, a branch of Sikh Human Development Society of U.S.A has provided Scholarships of Rs. 6000/- to 5 students of M.A. - II & 1 student of M.A. - I.

S. Jagdeep Singh Marhiya, Hongkong, paid annual fees of Rs. 10,000/- Sukhjinder Singh S/o Jarnail Singh, M.A.-I Student (Helping the poor Student).

## **30. Activities and support from the Alumni Association:**

**The Alumni Association has been functioning in the University since long. For the proper and effective functioning of the Association, Departmental Alumni Associations have also been established with effect from the current academic year in each teaching/research department, regional centre and Neighbourhood Campuses of the University. There are occasional meetings of the Departmental Alumni Association and one annual meet of the University Alumni Association where all the members are invited.**

The details of the support from Alumni Association during this year are given below:

<b>Name of the donated persons</b>	<b>Amount in Rs.</b>
Sh. Sharanjeet Sing Dhillon	5,00000/-
Sh. Gurcharan Singh Virk	55,000/-
Sh. Harbajan Singh	25,000/-

Sh. Surjit Singh Bhatti	5,000/-
Prof. Himat Singh	5,000/-
<b>Total</b>	<b>5,90,000</b>

### **31. Activities and support from the Parent-Teacher Association:**

Parents of the students are always encouraged to interact with the teachers and to discuss the problems of their wards. However, no formal Parent-Teachers Association exists in the University at Present.

### **32. Health services:**

The University has its own health Centre in the Campus. The doctors and the para-medical staff are provided with residential accommodation in the Campus so that the students and employees may have 24 hours access to the medical services.

The Health Centre has the following staff members:

Doctor	4
Pharmacist	4
Staff Nurse	3
Male Nurse	1
Laboratory Tech.	1
ECG Tech.	1
Radiographer	1

**The health Centre has the following facilities:**

- Routine OPD
- Emergency Service round the clock
- Lab. Facility including tests
- ECG facility
- X-ray

Nabulizer

Oxygen facility

Ambulance Service

Referral services for the serious patients.

The above mentioned facilities are provided to the students free of cost and to the employees of the University as per the Punjab Government rules.

**Other Activities:**

- (a) Organization of various camps such as blood donation camp, multi-specialty camp at regular intervals of time.
- (b) Organization of check-up camps at the Neighbourhood Campuses at regular intervals of time.
- (c) Assisting the Physiotherapy Department.
- (d) Assisting the Homeopathy Department.
- (e) Counselling of students regarding drug addiction and other health related topics.
- (f) Checking of various eatable places such as Canteens, Cafes in the Campus.
- (g) Checking of Hostel Mess and Hostel servants.
- (h) All other health related activities in the campus.
- (i) Regular Check-up of the students/employees of University Model School.

**National Health Programme:**

Employees of the University Health Centre participate actively in various National Health Programmes such as Polio Pulse Programme, Revised National Tuberculosis control programme etc.

### **33. Performance in sports activities:**

**The performance of Punjabi University students in sports had always been outstanding. But it has reached new and unparallel heights:**

- (a) Punjabi University Patiala has won GENERAL CHAMPIONSHIP FOR MEN '**Maharashi Meghnath Nageshkar Trophy**' for the overall best performance in Men's section during 2004-05 in the All India Inter-University Tournament. It is a great Honour for the University that Punjabi University, Patiala has won this trophy for the first time. During the session 2005-06. Punjabi University teams secured 10 first, 6 second, 6 third and one fourth positions and won 90 individual medals (34 Gold, 27 Silver and 29 Bronze). Whereas in Nationals we won 20 Gold, 23 Silver and 21 Bronze medals. With this the University was able to achieve the target of 15360 points which are highest points to be the winner of MAKA Trophy award.
- (b) In the session 2006-07 Punjabi University teams secured 10 First, 9 Second and 5 Third positions and 193 individual medals. Whereas in Nationals the University players won 16 Gold, 15 Silver and 15 Bronze medals. With this the University has crossed the target point of the last year by securing above 17890 points which are the record points and its is confirmed that this session's MAKA trophy will also be won by the University.

**Summary of the results of National/interversity tournaments held during the present academic session is given below:**

**Team Events:**

<u>Team Games</u>	<u>Position</u>
Football (Men)	Winner
Handball (Women)	Winner
Rifle Shooting (Women)	Winner
Rowing (Women)	Winner
Cycling (Men)	Winner
Cycling (Women)	Winner
Canoeing (Men)	Winner
Kayaking (Women)	Winner
Kho-Kho (Women)	Runners-Up
Rifle Shooting (Men)	Runners-Up

Wrestling (Men)	Runners-Up
Kayaking (Men)	Runners-Up
Rowing (Men)	Runners-Up
Weight Lifting (Men)	Runners-Up
Power Lifting (Men)	Runners-Up
Gymnastics Rhythmic	Runners-Up
Weight Lifting (Women)	Third
Gymnastics Artistic	Third
Hockey (Men)	Third
Boxing (Men)	Third
Best Physique (Men)	Third

**Individual Events:**

Name of the Game	Gold	Silver	Bronze	Total
Athletics	03	06	04	13
Boxing	02	01	03	06
Wrestling	01	01	08	10
Archery	01	-	01	02
Rowing	10	03	07	20
Best Physique	-	03	-	03
Wt. Lifting	01	01	02	04
Power lifting	03	-	03	06
Gymnastics	01	05	13	19
Cycling	24	06	02	32
Kayaking	24	17	01	42
Canoeing	09	-	-	09

The University has beaten all Universities in overall sports.

## 34. Incentives to outstanding sportspersons:

The University has various policies to attract and nurture the outstanding sports persons. In addition, special care of their diet, training and studies is taken through out the year. Some of the policies are summarized below:

- (a) 2% of the total seats in each course are reserved for sports persons.
- (b) Different colleges affiliated to the University have been assigned sports wings in particular games. The students selected in these sports wings are given a scholarship/stipend of Rs. 1800/- per month to each student. In addition to free coaching and medicines, all these students are provided with fee accommodation in the college hostels and have to pay no tuition fee or any other charges to the college. There are 300 such students in the sports wings of the affiliated colleges of Punjabi University.
- (c) During the training camps before the competitions, each student is given Rs. 100/- per day in addition to free accommodation and meals.
- (d) During all the competition days such allowance is Rs. 150/- per day per student.
- (e) In case the student miss a University examination due to clash in dates with Interschool/National/International Competitions, the University makes arrangements for special examination on its own expenses even if there is only one such candidate.
- (f) The University honours its outstanding sports persons by giving cash awards to the students scoring good positions in the competitions. The details are given below:

### 1. Olympic Games /World Championship/World Cup:

Gold medalist	Rs. 1,00,000/-
Silver medalist	Rs. 75,000/-
Bronze medalist	Rs. 60,000/-

### 2. Asian Games/Asian Championship/Commonwealth Games/Commonwealth Championship:

Gold medalist	Rs. 50,000/-
Silver medalist	Rs. 40,000/-
Bronze medalist	Rs. 30,000/-

### 3. South Asian Federation (SAF) Game:.

Gold medalist	Rs. 15,000/-
Silver medalist	Rs. 10,000/-

Bronze medalist

Rs. 5,000/-

**4. All India Intersersity Tournaments/National Games/National Championship:**

Gold medalist

Rs. 10,,000/-

Silver medalist

Rs. 9,500/-

Bronze medalist

Rs. 9,000/-

### 35. Students' achievements and awards:

<b>Biotechnology</b>	Students secured top positions in various declamation contests, quiz contests, won awards at oral as well as poster presentation at various seminars/symposia. One research scholar went to present a paper in USA.  Shazia Zahoor, Ph.D. scholar under Dr. Aruna Bhatia won a gold medal for best oral presentation at a National Conference at Bikaner.
<b>Chemistry</b>	A cash award of Rs. 5000/- given to Ms Aditi Gupta for securing first position in M.Sc.-I.
<b>Dance</b>	Student stood first in National Youth Festival held at Chennai (Karishma Bache)
<b>Gurmat Sangeet</b>	Won Second position in Shabad Gayan Zonal competition held in 2006-07.
<b>Law</b>	Students participated in various Moot Court Competitions, Essay Competitions organised through out the Country during the Session.
<b>Mathematics</b>	Mr. Shiv Prasad, a student of M.Sc. II <sup>nd</sup> year has qualified NBHM scholarship test and will receive a scholarship of Rs. 48000/- shortly. Deptt. of Mathematics won second prize in the exhibition "Health through Science" jointly organized by Punjab academy of Sciences & Indian National Science congress (Patiala chapter).
<b>Physical Education</b>	Two students were Awarded with prestigious "Maharana Ranjit Singh Award" For 2006 sports.

<b>Physics</b>	Chancellor's medal for excellence to M.Sc. Physics student, Miss Shalu Bansal at convocation held on 18th December, 2006.								
<b>Physiotherapy and Sports Science</b>	<p>(a) The students of Physiotherapy, Punjabi University attended the International Conference "INTERCOMAT-2006" held at Delhi between Oct-26 to 31, 2006 and won prizes in various events as:</p> <ol style="list-style-type: none"> <li>1. <b>First Prize</b> in "Intercomat Quiz-2006" by <b>Miss Supreet Kaur</b> (internee) &amp; <b>Miss Parul Bhola</b> (student BPT 4<sup>th</sup> year).</li> <li>2. <b>First Prize</b> in Skit by students of BPT 3<sup>rd</sup> &amp; 4<sup>th</sup> year.</li> <li>3. <b>Second Prize</b> in dance by students of BPT 3<sup>rd</sup> &amp; 4<sup>th</sup> year.</li> </ol> <p>(b) <b>Mr. Jogbinder Singh</b>, Ph.D scholar from our department has been selected for Media Team by Nehru Yuva Kendra Sangathan, Ministry of Youth Affairs &amp; Sports at Delhi. He assisted Media Center during XII National Youth Festival at Pune in January 2007 in publishing their daily newsletter.</p>								
<b>Pharmaceutical Sciences and Drug Research</b>	Mrs Summet, student of M. Pharma (II) was awarded 'young Scientist Award at the 10th Punjab Science Congree held at Jalandhar in February 2007. She worked for this project under Dr. Subject Jain and Dr. A.k. Tiwary.								
<b>University College of Engineering</b>	2 students of B.Tech. in Computer Engg. were selected for 'Team Force' of NASA, USA. They were selected in the final international space settlement design competition among 55 teams in Asia. This is the only team from Asia to US which will join Johnson's Space centre, Houston (US) in July 2007								
<b>Yadawindera College of Engineering Talwandi Saboo</b>	<p>(a) <b>TECHFEST-2006</b></p> <p>Following students have brought laurels to the institute by bagging various prizes in the prestigious, <b>National Level Technical Festival (Techfest-2006) at Sant Longowal Institute of Engineering &amp; Technology, Longowal from 06.10.2006 to 08.10.2006.</b></p> <table border="1"> <thead> <tr> <th>Name of the student</th> <th>Class</th> <th>Event</th> <th>Position</th> </tr> </thead> <tbody> <tr> <td>Minakshi Thakur</td> <td>B.Tech.(ECE) 3<sup>rd</sup> Year</td> <td>Model Exhibition "Quiz Control System using Microcontroller" (Electronics &amp; Instruments.</td> <td>Ist</td> </tr> </tbody> </table>	Name of the student	Class	Event	Position	Minakshi Thakur	B.Tech.(ECE) 3 <sup>rd</sup> Year	Model Exhibition "Quiz Control System using Microcontroller" (Electronics & Instruments.	Ist
Name of the student	Class	Event	Position						
Minakshi Thakur	B.Tech.(ECE) 3 <sup>rd</sup> Year	Model Exhibition "Quiz Control System using Microcontroller" (Electronics & Instruments.	Ist						

Upkar Singh Saini	B.Tech. (ECE) 3 <sup>rd</sup> Year	Model Exhibition "Quiz Control System using Microcontroller" (Electronics & Instruments).	Ist
Mohit Sharma	B.Tech. (ECE) 3 <sup>rd</sup> Year	Model Exhibition "Quiz Control System using Microcontroller" (Electronics & Instruments).	Ist
Gaurang Mathur	B.Tech (CE) 2 <sup>nd</sup> Year	Paper Presentation "THE GRID" : Past, Present Future"	3 <sup>rd</sup>
Sanal Jain	B.Tech (CE) 2 <sup>nd</sup> Year	Paper Presentation "THE GRID" : Past, Present, Future"	3 <sup>rd</sup>
<b>(b) ISTE STUDENTS SECTION CONVENTION:</b>			
<p>Following students have brought laurels to the institute by bagging various prizes in the prestigious, National level ISTE Students Section Convention organized at BBSBEC, Fatehgarh Sahib, from 27.1.2006 to 28.10.2006. About 70 teams from various colleges of Punjab, H.P., J &amp; K and Chandigarh participated in this Convention.</p>			
<b>Name of the student</b>	<b>Class</b>	<b>Event</b>	<b>Position</b>
Nitin Sharma	B.Tech. (CE) 2 <sup>nd</sup> Year	Paper Presentation: "Biometrics"	Ist
Kritika Sharma	B.Tech. (CE) 2 <sup>nd</sup> Year	Paper Presentation : "Biometrics"	Ist
Gurtej Singh	B.Tech. (ME) 3 <sup>rd</sup> Year	Paper Presentation: "Technical Education: Bridging the Rural &	2 <sup>nd</sup>

			Urban Area"	
	Vikram Sharma	B.Tech (ME) 3 <sup>rd</sup> Year	Paper Presentation: "Technical Education: Bridging the Rural & Urban Area"	2 <sup>nd</sup>
	Jyotika Arora	B.Tech. (CE) 2 <sup>nd</sup> Year	Debate & Spurge	2 <sup>nd</sup>
	Rahul Deora	B.Tech. (ECE) 2 <sup>nd</sup> Year	Spurge	2 <sup>nd</sup>
	Pritpal Singh	B.Tech (ECE) 2 <sup>nd</sup> year	Cyber Gaming	3 <sup>rd</sup>

### **Performance of the University Students in Cultural Activities:**

Performances of Punjabi University in cultural activities during the current session are also appreciable. In addition to **winning Championship Trophies in various events the University stood overall first runner up in the North Zone Intervarsity Youth Festival as well as in the National Intervarsity Youth Festival.** The details are summarized below:

#### **Inter Zone Youth Festival 2006-07**

##### **Group Events**

<b>Sr. No.</b>		<b>Position</b>
(a)	Group Song Indian	Gold
(b)	Folk Dance (Bhangra)	Gold
(c)	Quiz	Gold
(d)	Installation	Gold
(e)	Group Skit	Gold
(f)	Western Group Song	Silver

##### **Individual Events**

<b>Sr. No.</b>	<b>Student Name</b>	<b>Event</b>	<b>Position</b>
(a)	Krishma Bache	Classical Dance	Gold

(b)	Nazir Mohd.	Classical Instrument P (Tabla)	Gold
(c)	Bhairvi	Classical Instrument NP (Sitar)	Gold
(d)	Monika Sharma	Western Solo	Gold
(e)	Harjeet Kaur	Semi Classical (Thumri)	Gold
(f)	Daljeet Kaur	Cartooning	Gold
(g)	Damanjeet Kaur	Light Vocal (Gazal)	Silver
(h)	Sarbjee Singh	Classical Vocal	Silver

### **Folk Festival 2006-07**

#### **Group Events**

<b>Sr. No.</b>		<b>Position</b>
(a)	Jhummar	Gold
(b)	Vaar Gayan	Silver

### **North Zone Intervarsity 2006-07**

#### **Group Events**

<b>Sr. No.</b>		<b>Position</b>
(a)	Folk Dance (Bhangra)	Gold
(b)	Installation	Gold
(c)	Group Mime	Gold
(d)	One Act Play	Silver
(e)	Folk Orchestra	Silver
(f)	Group Skit	Silver

#### **Individual Events**

<b>Sr. No.</b>	<b>Student Name</b>	<b>Event</b>	<b>Position</b>
(a)	Krishma Bache	Classical Dance	Gold
(b)	Shelly Bala	Rangoli	Gold
(c)	Bhairvi	Classical Instrument NP (Sitar)	Silver
(d)	Daljit Kaur	Cartooning	Silver
(e)	Gurdeep Kaur	On the Spot Painting	Silver
(f)	Ranjit Singh	Clay Modeling	Silver

## **National Intervarsity Youth Festival**

### **Group Events**

<b>Sr. No.</b>		<b>Position</b>
(a)	Folk Orchestra	Gold
(b)	Folk Dance (Bhangra)	Gold
(c)	One Act Play	Gold
(d)	Installation	Gold
(e)	Group Mime	Bronze

### **Individual Events**

<b>Sr. No.</b>	<b>Student Name</b>	<b>Event</b>	<b>Position</b>
(a)	Krishma Bache	Classical Dance	Gold
(b)	Bhairvi	Classical Instrument NP (Sitar)	Gold
(c)	Shelly Bala	Rangoli	Gold
(d)	Daljit Kaur	Cartooning	Gold
(e)	Ranjit Singh	Clay Modeling	Silver
(f)	Gurdeep Kaur	On the Spot Painting	Silver

The University stood first runner-up in National intervarsity youth festival.

## **36. Activities of the Guidance and Counseling unit:**

Department of Psychology is running a 'GUIDANCE AND COUNSELING CELL' which provides counseling to people from all walks of life on issues such as:

- Stress
- Adolescent Issues
- Child rearing
- Career Dilemmas
- Anxiety
- Learning disabilities
- Pre-Marital Concerns
- Marital Problems

- Occupational Issues
- Mid-life Crisis
- Pre & Post Retirement Issues
- ( Pre Retirement Counseling Cell )
- Geriatric Issues
- Depression
- HIV/AIDS
- Substance Abuse
- Adjustment Problems
- Problem Children

**Workshops being conducted by the Cell:**

- Personality Development
- Proactive Parenting
- Time Management
- Academic Achievement
- Self Enhancement
- Interview Skills
- Anger Management
- HR Consultancy
- Teacher Effectiveness Programs
- Relaxation Training
- Managing Learning Disabilities in Children
- Dealing with Problem Children

### **37. Placement services provided to students:**

Punjabi University established the centralized Placement Cell in August 2003 to cater to the recruitment and counseling activities of the students from various campuses of the University. The Cell also works towards enriching the knowledge of the students by organizing seminars/workshops by the experts invited from the Industry. The Cell acts as a

bridge between the students and the industry. Last year, Punjabi University signed an MoU with Infosys Technologies and thus, has become a partner along with a few other premier institutes of the country in the “Industry-Academia Collaboration” under the banner of “Campus Connect”.

Punjabi University has received quite an encouraging response from corporate houses, especially the IT sector companies, in terms of “On-Campus Recruitments” of the Engineering and Management students. About 40 companies had visited us during the academic session 2006-07 for recruiting students from technical and management streams. In the on-going recruitments of the students from technical streams, 230 offers have already been made by 13 companies in the current academic session 2007-08. The recruiters include many prestigious names from IT sector as well as core mechanical and electronics engineering companies, viz. Infosys (87), Wipro (32), Satyam (29), Accenture (22), Aditi Technologies (13), Tech Mahindra (12), Atos Origin (11), Infogain (10), HCL (6), Osram (2) and John Deere Technology Centre India (1), offering handsome packages in the range from Rs. 2.90 to Rs. 6.00 Lacs per annum. Some more companies viz. Mahindra Tractors Ltd., Swaraj Mazda Ltd. and Newgen are currently in the process of finalizing their schedules for on-campus recruitments, while the Cell is making efforts to further enhance the campus placements by tying-up with more companies for the current as well as future batches.

Recently, a delegation from Tata Consultancy Services (TCS) visited the campus (during the last week of May 2007) for accreditation purpose and subsequently gave a positive response for recruitments.

The placements activities for MBA streams commenced in the month of November 2006, wherein 141 offers were made by 19 companies viz. ICICI Bank (18), Centurion Bank of Punjab Ltd. (16), State Bank of Patiala (15), Magma Fin. (14), Woodland (11), Indiabulls (10), ICICI Prudential (8), Jupiter International (8), HDFC Bank (6), Asian Paints (6), Reliance General Insurance (6), IDBI Bank (4), Nahar Group (4), NPIL (4), Indiamart (4) Abhishek Industries (2), Kotak Life (2), Teg Bandhu Group (2) and India Infoline (1), with packages offered ranging from Rs. 1.50 to 9.00 per annum.

Companies such as Ranbaxy, Jubilant Organosys, Torrent, Panacea Biotech, Godrej, Avon Foods etc. have shown interest in our students from the departments of Biotechnology, Pharmaceutical and Drug Research, Chemistry and Zoology; making offers to over a dozen

students. The Cell is also interacting with many other companies for arranging campus recruitments for other streams.

The efforts of the Placement Cell can be judged from the consistent improvements in the placement records, as is evident from the data given below:

### **Placements in Engineering Streams (B. Tech., M. Tech. & MCA):**

<b>Year of Passing</b>	2004	2005	2006	2007
<b>Companies visiting the campus</b>	10	15	10	25
<b>Total Offers</b>	44	88	75	204
<b>Maximum Packages Offered (Rs. Lacs)</b>	2.70	3.15	3.00	6.00

### **Placements in Management Streams:**

<b>Year of Passing</b>	2004	2005	2006	2007
<b>Companies visiting the campus</b>	-	06	14	19
<b>Total Offers</b>	-	47	118	141
<b>Maximum Packages Offered (Rs. Lacs)</b>	-	3.25	3.30	9.00

In addition, many students have found employment as a result of joint efforts at the student/department level, coordinated through the Placement Cell. Some details of such placements are given below:

<b>Physiotherapy &amp; Sports Science</b>	The department is running two courses – M.Sc. in Sports Sciences (2 Years' duration) and BPT (4½ Years' duration). In the session 2006-07, 17 students of BPT and M.Sc. got placed in various Govt. hospitals, polyclinics and universities, while many have started their own clinics.
<b>Guru Kashi Campus, Talwandi Sabo</b>	Campus placement arranged from prominent companies, thereby placing 43 students out of the total 74.
<b>Chemistry</b>	12 students were given offer letters and subsequently joined Ranbaxy, Jubilant Organosys and Hamdard, besides other industries during the campus interviews.
<b>Journalism and Mass</b>	For the first time since the inception of the department, Zee TV

<b>Communication</b>	conducted interviews and selected 11 students.
<b>Linguistics and Punjabi Lexicography</b>	(a) Four (4) Students placed in Centre for Development of Advanced Computing, Government of India, Noida, New Delhi. (b) 18 students selected by Central Institute of Indian Language Mysore for one year language course scholarship of Rs. 5800/- per month per student.
<b>Statistics</b>	(a) Ten students of the department placed in Various MNC's through the Placement Cell at annual package Rs. 2.2 lacs and Rs. 3.0 lacs.

### **38. Development programmes for non-teaching staff:**

The University encourages the non-teaching staff also to improve their educational qualifications through distance education or evening classes. The University has very liberal rules to sanction leave if an employee wants to join a regular course. Special increments are also granted to the employees after the successful completion of the course. As a result most of the members of the non-teaching staff have completed their post graduation and even there are a few who have done their Ph.D.

The University is actively involved in the computerization of all the administrative work of the University. Most of the examination work has already been computerized (discussed above). In order to train the existing employees of the University for Computer Applications, University Computer Centre arranges free training courses in the evening. The employees are encouraged to join these courses and special pay is also given to the employees who complete these courses successfully.

In addition, liberal loans are also sanctioned to the employees who want to purchase personal computers.

### **39. Healthy practices of the institution:**

### **(a) Quality Higher/Technical Education at the Door-Step of Ruralites:**

Punjabi University and its affiliated Colleges are situated in a region (Malwa region) which is known to be educationally backward area. Though the urban people now are well aware of the importance of higher education as a result all good Institutions are concentrated in only urban areas but there is virtually negligible educational development in rural areas. It is clear from the fact that in the Universities of Punjab there are only 4% of rural students in spite of the fact that about 66% population of Punjab lives in the rural areas.

The University believes that the overall development of the country lies in the development of masses. Therefore, work on different aspects was initiated for the educational uplift of rural population:

1. Yadavindra College of Engineering was established at Talwandi Sabo (Punjab Government's declared backward area) for poor rural students. Totally free technical education is provided to the students selected on merit and the following eligible Criteria:
  - i) The candidate must have passed the matriculation examination from a school situated in rural area.
  - ii) Total annual charges of the school should be less than Rs. 600/-.
  - iii) The candidate should have studied in rural school for atleast a period of seven years.

It is worth mentioning here that this idea of free education to poor and deserving rural students was highly appreciated in The Vice-Chancellor's conference and they passed a resolution that all educational institutions should adopt this concept. Even **UGC accepted it as one of the BEST PRACTICE.**

2. The University started an Engineering College at Rampura Phul to impart quality technical education to the deserving students and to save them

from being looted by the Engineering Colleges being operated by private sectors which are more of business shops than educational institutions.

3. The University also opened six neighbourhood campuses in the interior rural areas to provide the similar facilities to the rural public at their door steps which are available to the urban public. 50% of the seats in these campuses are reserved for the candidates belonging to the same sub-division in which the neighbourhood campus is situated.
4. In order to increase the strength of rural students in the University Campus, there are 10% (of the sanctioned strength) additional seats in each course for the candidates hailing from rural areas.

**(b) Collaboration with the Leading Universities/Research Establishments:**

In order to give an impetus to teaching and research the University has signed MoU's with various foreign Universities and Research organizations under which the faculty and students from Punjabi University, Patiala visit these institutions and vice-versa. The names of these institutions have already been detailed earlier.

**(c) Making optimum Use of the Available Infrastructure:**

There have been many times more applications (than the sanctioned seats) for admission to various courses run by the University. In view of this increasing demand of higher education in the region and to make optimal use of (i) the infrastructural facilities available in the departments and (ii) expertise of the staff, the University increased the intake of the students by 25% during the last academic year (2005-06). However, during the current year (2006-2007), the intake has been doubled in some of the departments depending upon the infrastructure available. In addition to the appointment of several new teachers in these departments, the budget of these departments has also been increased accordingly in order to maintain the quality of teaching in the University.

**(d) Special Training in soft-Skills:**

It is observed that the students of the Malwa region are very weak in communication skills. Therefore, special English classes are arranged for the students and they are trained especially in spoken English and other soft skills. University has already setup language labs at University Campus and Talwandi Sabo to train the students in spoken English and other soft skills. In the next session similar labs will be set up in all Neighbourhood Campuses.

**(e) Motivating of Students:**

Lectures by eminent educationists, scientists and administrators are arranged to motivate the students.

**(f) Competitive Spirit in Students:**

The University established a debating club in the campus to encourage the students to organize and participate in conferences/seminars on emerging topics. In order to inculcate competitive spirit in the students, organization of different type of competitions through out the year is made a part of the curriculum.

**(g) Nodal Labs:**

A large number of modern computer labs have been set in the University Campus and other Centers to make an easy access to internet for University Students. A very nominal fee is charged from students.

**(h) IAS and Allied Services Training Centre:**

The University has setup an IAS and Allied Services Training Centre in the University Campus with the assistance of Ministry of Social Welfare, Government of India. The candidates belonging to SC, ST, BC, OBC and other weaker sections of the society are given free training here for various competitive examinations of Central Government, State Government and Banking Services.

**(i) Educational Multimedia Research Centre:**

Educational Multimedia Research Center (EMMRC), located in Punjabi University, is one of the seventeen centers created under the Consortium for Education Communication (CEC) Programme of Inter-University Center of UGC for Countrywide Classroom. The Center has been refurbished and strengthened in the recent past and has well equipped studios, a preview room and equipment for production of audio-visual content. It is also equipped with EDUSAT connectivity through which live interactive programmes can be viewed as well as telecasted. The centre also receives telecast of educational programmes of various Educational channels under UGC-CEC Countrywide Classroom Scheme, through a C-Band antenna. Faculty and students of various departments of the University regularly view educational programmes in EMMRC and participate in the live interactive sessions with senior faculty/experts through EDUSAT.

EMMRC, Patiala has been assigned to produce video content and e-content in the subjects of Botany, Economics, Sports Sciences, Theatre and Philosophy, apart from producing enrichment programmes on subjects of social and cultural relevance. The Centre has so far produced more than 150 programmes for the CEC. EMMRC, Patiala has also organised workshops for the faculty on e-content development and also extends the facility to students and faculty to enroll for very useful e-courses being offered by various Centres of CEC.

#### **40. Linkages developed with National/International, academic/Research bodies:**

The details are given below:

<b>Shri Gobind Singh Department of Religious Studies</b>	With Jain V.B.I (Deemed University), Ladnun. (Raj.)
<b>Physiotherapy and Sports Science</b>	(a) Indian Association of Physiotherapists [IAP], (b) Exercise Fitness and Health Alliance [EFHA], (c) World Confederation of Physical

	Therapy [WCPT].
<b>Library &amp; Information Science</b>	<p><b>Strong linkages with national and state level professional associations:</b></p> <p>(b) Indian Library Association (ILA)</p> <p>(c) Indian Association of Teachers of Library and Information Centres (IASLIC),</p> <p><b>Linkages with international bodies</b></p> <p>(a) International Federation of Library Associations and Institutions (IFLA)</p> <p>(b) International Association of School Librarianship (IASL),</p> <p>(c) UNSECO.</p>
<b>Human Biology</b>	<p>Academic and research linkages are developed with the following viz.</p> <p>(a) P.G.I ,Chandigarh,</p> <p>(b) AIMS, New Delhi,</p> <p>(c) CMC, DMC, Ludhiana and</p> <p>(d) Anthropological survey of India (ASI).</p>
<b>Guru Kashi Campus, Talwandi Sabo</b>	<p>(a) Indian Commerce Association</p> <p>(b) Indian Accounting Association</p> <p>(c) Indian Institution of Management, Lucknow.</p>
<b>Chemistry</b>	<p>(a) NIPER at the national level</p> <p>(b) Prof. Phil Hampton of CSU Channel Island,</p> <p>(c) Camarillo CA-USA at the international level.</p> <p>(d) IHBT, Palampur, (H.P.)</p>
<b>Biotechnology</b>	<p>(a) MoU signed with IHBT, Palampur.</p> <p>(b) Biotechnology Research Society of India (BRSI)</p>
<b>Psychology</b>	<p>(a) National Academy of Psychology</p> <p>(b) Indian Association of Clinical Psychology (IACP)</p> <p>(c) Delhi Association of Clinical Psychology (DACP)</p> <p>(d) Indian Academy of Applied Psychology (IAAP)</p>

	<ul style="list-style-type: none"> <li>(e) Somatic Inkblot Society</li> <li>(f) Indian Science Congress Association</li> <li>(g) Indian Psychological Association (IPA)</li> <li>(h) Indian Institute of Public Administration (IIPA)</li> <li>(i) International Association of Cross-Cultural Psychology (IACCP)</li> <li>(j) All India Association of Education Technology (AIAET)</li> <li>(k) Indian Society of Extension Education (ISEE)</li> <li>(l) National Environmental Science Academy</li> <li>(m) Praachi Psychocultural Research Association.</li> <li>(n) Psycholingua.</li> <li>(o) The Punjab Heritage.</li> <li>(p) Rehabilitation Council of India.</li> </ul>
<b>Punjab School of Management Studies</b>	<p>MoU's have been signed with the following three Foreign State Universities.</p> <ul style="list-style-type: none"> <li>(a) Wilkes University, Pennsylvania, U.S.A.</li> <li>(b) Grand Valley State University, U.S.A</li> <li>(c) Kutztown University, Pennsylvania, U.S.A.</li> </ul>
<b>Public Administration</b>	Department has linkage with Indian Institute of Public Administration.
<b>Computer Science</b>	International Development Research Centre, Canada
<b>Botany</b>	<p>Academic and Research collaborations have been established with:</p> <ul style="list-style-type: none"> <li>(a) IHBT, Palampur.</li> <li>(b) NMRC, Chambaghat, Solan.</li> </ul>
<b>Linguistics &amp; Punjabi Lexicography</b>	<ul style="list-style-type: none"> <li>(a) MoU for student exchange programme signed with Kwantlen University College, Kwantlen, Canada.</li> <li>(b) MoU for language and Culture Immersion Programme signed with Singapore Khalsa Association, Singapore.</li> </ul>
<b>Physics</b>	(a) Center for Advanced Technology,

	(CAT), Indore (b) Inter University Accelerator Center, (IUAC), New Delhi.
<b>Department of Encyclopaedia of Sikhism</b>	(a) International Interfaith Centre, Oxford, (UK). (b) The Goethe University, Frankfurt (Germany).

#### **41. Any other relevant information the institution wishes to add:**

**Punjabi University is one of the very few Universities in the world which think about the masses and is earnestly involved in filling the gap between the privileged and unprivileged, urban and rural population by (i) providing free quality education to the very poor rural students and (ii) taking higher education to the door-step of ruralites.**

**UGC has already recognized it as one of the BEST PRACTICES.**

## **Part-C**

### **Detail Plans of the Institution for the Next Year:**

The following ongoing projects of the University will be strengthened during the next session:

- (a) Arrangements of fellowships for the poor rural students to be admitted during the academic session in Yadawindra college of Engineering and Technology so that they can be provided free education.
- (b) Strengthening the existing courses in all the Neighbourhood Campuses and opening more need based courses in these campuses to enhance the chances of employability of the students studying there.
- (c) Still a number of village Panchyats are offering free land to the University for opening Neighbourhood Campuses in their areas. Feasibility of opening more such campuses will be examined.
- (d) With the changing scenario, Higher Educational Institutions need to start new courses so that the students be brought at par with their counterparts in India and abroad. Therefore, efforts will be made to start the following new courses from the coming academic session:
  1. M.Phil. will be started in almost all the departments at University Campus, Department of Coursependence Studies and Regional Centres of the University.
  2. New Department under the name of Punjab School of Law will be established to start five years law course (LL.B.) from the next academic session. This will be in addition to the already ongoing courses (LL.B. (three year) and LL.M.) in the Law Department.
  3. Department of Physiotherapy and Sports Science will start Masters course in Physiotherapy (MPT) in the following specializations:
    - (i) Musculoskeletal Disorders
    - (ii) Neurological Disorders
    - (iii) Cardio-Pulmonary Disorders
    - (iv) Sports Injuries and Rehabilitation
  4. Gurmat Snageet Department is starting B.A. (Honours) in Gurmat Sangeet.

5. Pharmacy Department will add M. Pharma. Course in Industrial Pharmacy to the already M.Pharma. Courses running in the Department.
6. Engineering College, Rampura Phul will add the following courses from the next session:
  - (i) B.Tech. (Electronics)
  - (ii) B.Tech. (Computer Science and Engineering)
  - (iii) M.C.A.
7. Department of Punjabi is planning to start Punjabi Parveshika classes to help the employees from other states to learn Punjabi language.
8. Postgraduate Diploma in Translation will also be started by the Department of Punjabi.
9. Certificate course in Reporting on TV and Newspapers will be started by the Department of Journalism and Mass Communication.
10. Department of Physical Education will start Postgraduate Diploma in Human Consciousness and Yogic Science.
11. Shri Guru Gobind Singh Department of Religious Studies is starting Masters in Sikh Studies.
12. University will open a College of Education to run B.Ed classes (from academic session 2008-09) in Punjabi University Baba Dhian Dass Neighbourhood Campus, Jhunir (Mansa).
13. University will start a College of Education to run B.Ed. classess (from academic session 2008-09) at Punjabi University Neighbourhood Campus, Rampura Phul, (Phul Mehraj).

(e) The following efforts are being done by the University so that the standard of Research in the University be raised further :

1. Very good research work is being done by many departments of the University. These departments by all means are eligible for assistance under SAP (UGC) and FIST (DST). The present administration of the University is motivating such departments to submit departmental profiles to the relevant agencies for funds. During the last two years some of the University departments have already received grants from UGC under SAP and DST under FIST and some more departments are in pipe-line. This year a few more departments are in the process of preparing their profiles to get grants under SAP and FIST.

2. Individual teachers are also being encouraged to submit their Research Projects to various National/International agencies for grants.
  3. At present the University Servicing and Instrumentation Centre (USIC) is weak and need to be strengthened. The University plans to submit its project to UGC so that a few sophisticated instruments be installed in the Centre which will be a big boost to the research.
- (f) In order to expand its mission of providing quality education to maximum number of students and to make full use of the faculty and infrastructure of the University, the intake in the University College of Engineering will be doubled from the next session.
- (g) Prime Minister of India Sanctioned Rs. 10 crore to Punjabi University, for the development of Infrastructural facilities in the Neighbourhood Campuses. The University will contribute Rs. 10 crore from its own budget and thus a sum of Rs. 4 crore will be spend on each Neighbourhood Campus for this purpose.
- (h) Akhand Kirtan Jatha (a Society of B.C.) Survey, Canada has donated Rs. 20,00,000/- fro the construction of Bhai Randhir Singh Online Guramt Sangeet library. The construction plan is being finalised so that the work be initiated.

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