

INTRODUCTION OF DEPARTMENTS

FACULTY OF ARTS & SOCIAL SCIENCES

HISTORY

The Department of History was established in 1971. The Department offers the teaching courses at M.A.(Hons.), M.Phil. (in abeyance) and Ph.D. level. It offers specialization in Medieval and Modern Indian History with major thrust on social, cultural, religious and economic history. The Department incorporates in its syllabi the latest research work being done on the subject. It pays special attention to the study of history as a value-oriented discipline and focuses on social and cultural life of the people of Punjab as its main area of research. It has produced a large number of doctoral theses and monographs related to the thrust areas.

LIBRARY & INFORMATION SCIENCE

The Department of Library & Information Science was set up in 1973 to cater to the manpower needs of the libraries in this region. Initially the Department provided programme leading to Bachelor of Library & Information Science, but since 1984-1985 it has been offering courses leading to Bachelor and Master Degrees in Library and Information Science. The Department also provides facilities for doctoral research since 1988. At present 9 students are enrolled/registered for Ph.D. under the guidance of different teachers whereas twenty one (21) students have already earned their Ph.D.

Special emphasis is laid on teaching of modern methods for information processing and use. The department has introduced a paper, in each class, on computer and IT applications in Libraries for students to work in automated libraries. The department has augmented teaching material supplied to students by adding more to the Departmental library. Total number of Textbooks in the Departmental Library has gone up to 1000. A computerised catalogue of the library books has been prepared using library software WINISIS. A Computer Laboratory of seven Pentium-IV PCs with LAN and Internet connectivity has been set up in the Department for providing practical training to the students in the use of computers and networks.

POLITICAL SCIENCE

The Department of Political Science specializes in (1) Indian Political System, (ii) State Politics with special reference to Punjab, (iii) International Politics with special emphasis upon South, South West and Central Asia. The Punjab Journal of Politics, bi-annual research journal of the Department is being published regularly since 1977. It carries papers mainly from three areas, as given above. The Department has a programme of teaching and research guidance, leading to the award of M.A., M.Phil. and Ph.D. degrees.

PSYCHOLOGY

The teaching program of the department lays emphasis on fundamental and applied aspects of Psychology such as Experimental, Cognition, Motivation, Developmental Psychology, Industrial and Organizational Psychology, Counselling & Clinical Psychology, Statistics and Research Methods in Psychology, Psychological testing and Positive Psychology. The department has well equipped laboratories for Experimental Psychology. Biofeedback, Psychological Testing and Projective Psychology. It also publishes annual Journal "Personality Study and Group Behaviour" regularly since 1981. This journal is abstracted in the Indian Psychological Abstracts, Guide to Indian Periodical Literature and even indexed on the Internet for information.

SCHOOL OF SOCIAL SCIENCES

School of Social Sciences was established in the year 2006 and offers B.A. (Hons.) Social Science and M.A. (Social Sciences).

SOCIOLOGY

The Department of Sociology was established in 1976 with a small faculty of one Reader and a Lecturer. The shortage of faculty was compensated by the visits of the well known and senior faculty members from other universities. This helped the Department to grow on a solid footing. The Department tried to conserve its research

and intellectual base and took upon itself the responsibility of publishing its own journal, namely *Guru Nanak Journal of Sociology* in 1980. The journal has helped the Department to establish its own academic network in the country. The second stage of the development of the Department was between 1986 and 1995. The faculty strength reached seven and diverse areas such as; Population Studies, Urban Studies, Sociology of Entrepreneurship and Sociology of Movements were the new areas of thrust. The Department has the distinction of organizing 5th and 15th Conferences of the North West Indian Sociological Association, 27th Conference of the Indian Sociological Association and one International Conference on Habitat Agenda. Faculty members of the Department have published 52 books and 390 research papers.

The UGC identified the Department for a grant in the area of Sociology of Environment in 1995. The UGC also recognized it under the Special Assistance Programme (SAP) and the department has entered DRS level III and got a grant of Rs. 82 lakhs for five years (2014-19). During the past few years a shift in the thrust areas of the Department has taken place. The new areas such as Diaspora Studies and Dalit Studies have been given special attention. In 2006 the Department achieved distinction by getting the autonomous Centre for the Study of Social Exclusion and Inclusive Policy with a grant of 1.75 crores for five years.

FACULTY OF ECONOMICS & BUSINESS

COMMERCE

The Department of Commerce & Business Management which was established in 1984, was bifurcated on April, 2014 into two departments; Department of Commerce & University Business School. The Department of commerce offers Master in Commerce and Pre-Ph.D. Course. The strength of the department lies in a fine blend of experienced and competent faculty, state of the art infrastructure, latest teaching pedagogy and interactions with industry on regular basis, thereby, creating awareness about current market trends among students. The department strives to equip young professionals with updated skill set to enable them to establish as success seekers in all walks of life.

PUNJAB SCHOOL OF ECONOMICS

The School was established in 1974, continued its progress in both academic and research activities. The School updated the syllabi of all classes and planned to introduce M.A. (Business Economics) as per UGC nomenclature instead of M.B.E. The School was sanctioned UGC (SAP) at DRS-III level and for this purpose Rs.62.5 lakh were sanctioned for updating the research facilities and appointment of one Project Fellow for undertaking project. During the year 2015, nine students of the School were awarded Ph.D. and three students cleared UGC (NET) examination. The School organized inter-class cleanliness competition in view of the Swachh Bharat Movement on October 1, 2015. During the year 2015, latest research and text-books have been added to the Departmental library and the library continues to receive the various publications of World Bank in World Bank Depository Library.

For updating teaching and research facilities, the School is equipped with Modern Computer Lab and other infrastructural facilities including Laptop/Desktop to every faculty member. The School offers the courses of B.Sc. (Hons. School) in Economics (a six semester course after +2 level); M.Sc. (Hons. School) in Economics (a four semester course after graduation); Master of Business Economics (Hons.) (a four semester course after graduation) and Ph.D. Programme in (i) Applied Economic Theory (ii) Monetary Economics (iii) International Economics (iv) Agricultural Economics (v) Industrial Economics (vi) Economics of Development and Planning (vii) Regional Economics (viii) Public Finance and (ix) Environmental Economics.

UNIVERSITY BUSINESS SCHOOL

The University Business School was established in year 2011. The main objective of the MBA program is to equip the students with requisite knowledge and skills to meet the challenges of new order. The emphasis is to develop professional managers for corporate sector, who will fasten the nation towards a more prosperous, just and humane society. The program is backed by very good faculty and highly academic infrastructure. The learning environment and extracurricular activities foster the development of holistic personality. Students are

motivated to participate in various activities like mock test, group discussions, seminars and workshops to improve soft skills and enrich their personalities.

FACULTY OF EDUCATION

EDUCATION

The Department of Education was established in 2013 with the objective to produce teachers who can serve the society and nation to prepare the children for future. The department offers courses leading to the degrees of M.Ed. (session 2013-14), M.A. (Honours) Education and Ph.D. The department has well equipped educational psychology, educational technology and computer laboratories. It has been actively involved in various research programmes and with its dynamic organisation and structure, will continue to do so in future. Since last year department has awarded 2 Ph.D. Degrees conducted 4 Ph.D. viva-voce, 1 Pre-Ph.D. summary presentations and 1 extension lectures. Parent Teacher meet was organised in the month of December which was huge success among parents and students.

FACULTY OF ENGINEERING & TECHNOLOGY

COMPUTER ENGINEERING & TECHNOLOGY

The Department of Computer Engineering & Technology was established in April 2015. Earlier, it was part of Department of Computer Science & Engineering since 1988. The Department is providing higher technical education to the students of the region and the preparing the human resource to face the upcoming technological challenge. The objective is to train the students to grab excellent job opportunities in Software Industry, Education and various R&D institutions in government and private sector. The Department is offering B.Tech., M.Tech. and Ph.D. Programme(s). The major research areas of the Department are Cloud Computing, Big Data Analytics, Parallel Computing, Wireless Sensor Networks and Software Engineering. The Department has excellent placement record and almost all the students get placed in various multinational companies. The Department is equipped with the state-of-the-art Labs with latest platforms and technology. The Department has started various ILP Programme(s) in collaboration with top multinational companies, to offer curriculum to the students to meet industry standards. The Department also offers well connected labs with high speed bandwidth of 150 Mbps and is fully wi-fi. The Department students have their own group CESS (Computer Engineering Student Society) to help students both in technical and cultural activities by organizing various events like Flash Classes, Mental ability tests, funfest, etc.

COMPUTER SCIENCE

Computer Science is an inter-disciplinary subject having direct applications in diverse areas. Keeping in with the policy of the University, to provide higher technical education to the people of the region and to prepare the human resource to face the upcoming technological challenge, the Department of Computer Science (Computer Science & Engineering from 1988 - 2015), was established in the year 2015. Students after completion of MCA got excellent job opportunities in software industry, management information systems, department of any industry, education and various R & D institutions in government and private sector.

ELECTRONICS TECHNOLOGY

The Department of Electronics Technology was founded in July, 1983. It supports the most coveted courses in the region. It is graced with a distinguished faculty. It has well equipped labs and facilities like Fiber Optic Communications, Microwave measurements, Digital Signal Processing, Microprocessor, Communication Systems, Electronic Devices and Circuits labs. The department provides a well-designed course curriculum and has an accordant interaction with industry experts. The department also supports Ph.D. programme and extensive research activities in area like Fiber Optics Communications (Components & Sensors), Microwave materials, wireless communication and nano devices. The department has on-campus recruitment programs for placements in prestigious companies and it is an honour for the department that the placement rate is almost 100%. The students of the department have formed ESF (Electronics Students Forum) to promote extra-curricular activities to enrich their personalities. ESF organizes events like Group Discussion, Vocab-a-Mania, debates on contemporary issues and other related activities to showcase the hidden talents of the students. The department

has been organizing national level Technical Festival in past and promote students to participate in such events organized by other technical institutions. The students of our department have outperformed in interdepartmental sports meet as well as inter-departmental cultural festival conducted at university level.

FACULTY OF HUMANITIES & RELIGIOUS STUDIES

GURU NANAK STUDIES

The Department of Guru Nanak Studies was set up in 1971 in accordance with the provisions of the Article IV of Guru Nanak Dev University Act, 1969 as follows: To make provision for study and research on the Life and Teachings of Guru Nanak Dev and their cultural and religious impact in the context of Indian and World Civilizations. The Department of Guru Nanak Studies is an inter-disciplinary department with its main focus on Sikh Studies and Comparative Study of Religion. The department offers two Post Graduate Courses in Religious Studies and Philosophy and M.Phil. course in the subject of Religious Studies. Besides teaching, research guidance is provided to regular as well as part-time students pursuing for their Ph.D. The U.G.C has sanctioned grant of 60 lacs for the department under DRS-II (Special Assistance Programme) for the next five years. Journal of Sikh Studies, a refereed journal of international repute has been a regular feature of the department since 1974. A new Journal *Dharam Adhyan Patrika* (Punjabi) has been started from 2012. National and International Seminars and Conferences are organized by the department for dissemination of research activities on the Sikh Studies and allied fields in the wider perspective. Candidates admitted in M.A. (Hons.) Philosophy, M.A. (Hons.) Religious Studies and M.Phil.(Religious Studies) will be exempted of tuition fees.

FACULTY OF LANGAUGES

ENGLISH

The Department offers course leading to the degree of M.A. in English. Facilities for Doctoral research are also available in areas such as British and American Literature, Indian Literature in English and Linguistics. The Department also publishes a research journal Punjab Journal of English Studies annually. The Department has a rich and valuable collection of books and journals in its library which caters to the need of the students and scholars pursuing research in various aspects of language and literature.

FOREIGN LANGUAGES

Undoubtedly, foreign languages have come to occupy an important place in the global world of our times. The knowledge of a foreign language is considered as an asset in the present times and contributes greatly in refining the personality of an individual. Foreign languages made its entry in the University way back in 1977, when Russian was introduced as a part of the English Department. Subsequently, French was added and a separate department known as Department of Classical Indian & Foreign Languages was established. In the year 1994, Department of Foreign Languages attained its independent entity in the university. Since then, the department has traversed an arduous journey and has carved a niche for itself. The department mainly caters to the growing demand of foreign languages in this region of the country by offering part-time courses in French, German and Russian. These courses are primarily meant for the students of the University, but a major chunk of our students comprises professionals, defence personnel, businessmen, etc. An ever increasing enrolment of the students in our courses speaks volumes about the growing stature of our department.

HINDI

The Department of Hindi is one of the leading Departments in our University established in 1969. It runs classes for M.A. Hindi, P.G. Translation and M. Phil. Degree Pre.-Ph.D. and provides research facilities leading to Ph.D. It has organized 32 National and Regional Seminars/Conferences till date. The faculty members actively participated in all these academic activities. More than 280 researchers of the Department have been awarded the degree of Ph.D. and near about 391 have been awarded the Degree of M.Phil. The Department has prepared Hindi *Lekhak Kosh* of Hindi writers belonging to Punjab. It is a landmark and monumental work ever published anywhere. Ten teachers of the department have won National Awards and honours. The faculty members have published 118 Books and about 1020 research papers and articles. Twelve books have also been translated by the faculty members.

SANSKRIT, PALI & PRAKRIT

The Department of Sanskrit started functioning in July, 1983 and admits students for M.A., M.Phil. courses in Sanskrit. It also provides facilities for research leading to the Ph.D. degree.

SCHOOL OF PUNJABI STUDIES

ਪੰਜਾਬੀ ਅਧਿਐਨ ਸਕੂਲ ਦੀ ਸਥਾਪਨਾ 01 ਜੁਲਾਈ 1979 ਈ. ਨੂੰ ਹੋਈ। ਇਹ ਅਧਿਆਪਨ ਅਤੇ ਖੋਜ ਨਾਲ ਸੰਬੰਧਿਤ ਬਹੁ-ਅਨੁਸ਼ਾਸਨੀ ਵਿਭਾਗ ਹੈ। ਇਸ ਵਿਭਾਗ ਵਿਚ ਪੰਜਾਬੀ ਭਾਸ਼ਾ, ਸਾਹਿਤ, ਸਭਿਆਚਾਰ ਅਤੇ ਲੋਕਧਾਰਾ ਦੇ ਵੱਖ-ਵੱਖ ਪੱਖਾਂ ਬਾਰੇ ਅਧਿਆਪਨ ਅਤੇ ਖੋਜ ਦੇ ਪ੍ਰੋਗਰਾਮ ਅਤੇ ਪ੍ਰੋਜੈਕਟ ਚਲਾਏ ਜਾਂਦੇ ਹਨ। ਅਧਿਆਪਨ ਦੇ ਪ੍ਰੋਗਰਾਮਾਂ ਵਿਚ ਬੀ.ਏ. (ਆਨਰਜ਼) ਐਮ.ਏ., ਐਮ.ਫਿਲ ਅਤੇ ਪੀ-ਪੀ.ਐਚ-ਡੀ. ਦੇ ਕੋਰਸ ਸ਼ਾਮਿਲ ਹਨ। ਵਿਭਾਗ ਵਿਚ 60 ਦੇ ਕਰੀਬ ਰੈਗੂਲਰ ਖੋਜ-ਵਿਦਿਆਰਥੀ ਹਨ। ਲੋਕਧਾਰਾ ਅਤੇ ਸਭਿਆਚਾਰ ਬਾਰੇ ਕੀਤੀ ਜਾ ਰਹੀ ਖੋਜ ਦਾ ਵੱਡਾ ਭਾਗ ਖੇਤਰੀ-ਕਾਰਜ ਨਾਲ ਸੰਬੰਧਤ ਹੈ। ਇਨ੍ਹਾਂ ਵਿਸ਼ਿਆਂ ਨਾਲ ਸੰਬੰਧਿਤ ਖੋਜਾਰਥੀ ਫੀਲਡ ਵਿਚ ਜਾ ਕੇ ਨਵੀਆਂ ਤਕਨੀਕਾਂ ਨਾਲ ਲੋਕਧਾਰਾਈ ਅਤੇ ਸਭਿਆਚਾਰਕ ਸਮੱਗਰੀ ਦੀ ਡਾਕੂਮੈਂਟੇਸ਼ਨ ਕਰਦੇ ਹਨ। ਅਜਿਹਾ ਖੇਤਰੀ ਕਾਰਜ ਪੰਜਾਬੀ ਦੀਆਂ ਉਪ ਭਾਸ਼ਾਵਾਂ ਬਾਰੇ ਵੀ ਕੀਤਾ ਜਾਂਦਾ ਹੈ। ਸਾਹਿਤ ਦੇ ਅਧਿਆਪਨ ਅਤੇ ਖੋਜ ਨਾਲ ਸੰਬੰਧਿਤ ਪ੍ਰੋਗਰਾਮਾਂ ਵਿਚ ਮੱਧਕਾਲ ਅਤੇ ਆਧੁਨਿਕ ਕਾਲ ਦੀਆਂ ਸਾਰੀਆਂ ਪ੍ਰਮੁੱਖ ਵਿਧਾਵਾਂ ਤੋਂ ਇਲਾਵਾ ਪਾਕਿਸਤਾਨੀ ਪੰਜਾਬੀ ਸਾਹਿਤ ਅਤੇ ਪਰਵਾਸੀ ਪੰਜਾਬੀ ਸਾਹਿਤ ਨੂੰ ਉਚੇਚੇ ਤੌਰ ਤੇ ਸ਼ਾਮਿਲ ਕੀਤਾ ਗਿਆ ਹੈ। ਇਸ ਦੇ ਨਾਲ ਕਲਾਸਿਕ ਵਿਸ਼ਵ ਸਾਹਿਤ, ਤੁਲਨਾਤਮਕ ਸਾਹਿਤ ਅਤੇ ਅਨੁਵਾਦਿਤ ਸਾਹਿਤ ਨੂੰ ਵੀ ਪਾਠ-ਕ੍ਰਮ ਦਾ ਹਿੱਸਾ ਬਣਾਇਆ ਜਾਂਦਾ ਹੈ। ਇਸ ਵੇਲੇ ਵਿਭਾਗ ਕੋਲ ਯੂ.ਜੀ.ਸੀ. ਦਾ ਸੈਪ ਪ੍ਰੋਗਰਾਮ ਹੈ। ਵਿਭਾਗ ਕੋਲ ਯੂ.ਪੀ.ਈ.ਸਕੀਮ ਅਧੀਨ ਭਾਸ਼ਾ, ਸਾਹਿਤ, ਸਭਿਆਚਾਰ ਦੇ ਤੁਲਨਾਤਮਕ ਅਧਿਐਨ ਦੀ ਕੈਟੇਗਰੀ ਵਿਚ ਤਿੰਨ ਖੋਜ-ਪ੍ਰੋਜੈਕਟ ਵੀ ਹਨ। ਵਿਭਾਗ ਵੱਲੋਂ ਸਾਲਾਨਾ ਰੈਫਰੀਡ ਖੋਜ-ਰਸਾਲਾ ਖੋਜ-ਦਰਪਣ ਦਾ ਪ੍ਰਕਾਸ਼ਨ ਕੀਤਾ ਜਾਂਦਾ ਹੈ।

URDU AND PERSIAN

The Department of Urdu and Persian was established in 1974 in the School of Punjabi Studies. In 2002, department was established as a full fledged department. At present department is running Certificate Course in Urdu, Persian and Arabic, Diploma course in Urdu and Persian and Advance Diploma Course in Urdu and Persian. All these Courses are part time evening courses under semester system. Any of these part-time Certificate, Diploma or Advance Diploma Course can be done along with any major degree that the candidate may be pursuing or wish to pursue in the University or college regularly or privately. The department also provides research facilities in Urdu and Persian for research scholars and students especially in the field of classical, medieval and modern literature. Presently, there are five research scholars in the department, four in Urdu and one in Persian. Inter disciplinary courses for Under Graduate, post graduate, M.Phil. and Ph.D. students are available in this department in Urdu and Persian, both. Apart this, the department also helps the Departments of Customs, Jail, B.S.F and Courts, etc. in translating and interpreting Urdu, Persian and Arabic into English, Punjabi and Hindi. The department also helps the Enforcement and Anti-Hijacking Agencies in interpretation and interrogation.

FACULTY OF LAWS

LAWS

The Department of Laws at Guru Nanak Dev University, Amritsar was established in the year 1972 as an evening institution having LL.B. Course for employed students only. In 1982, the Department started the morning classes and in 1983, teaching of LL.M. was started. The Department now offers B.A.LL.B (Hons.)(FYIC), Bachelor of Laws (LL.B.) (Three Years Course), and Master of Laws (LL.M.) Course. LL.M. (One Years) Course is open to full-time students. There is also a provision for research leading to Ph.D. Degree.

FACULTY OF LIFE SCIENCES

BIOTECHNOLOGY

The Department of Biotechnology was established in the year 1991 with financial support from University and DBT, Govt. of India. Ever since the Department has made rapid strides in both teaching and research, and has made its presence felt at the national and international levels. The Department is imparting theoretical and practical training to the students of M.Sc. Biotechnology in basic and applied aspects. The Department has well equipped teaching/research and computer laboratories for imparting training to the students. This Department is a constituent of National Network of thirty four centres imparting job-oriented training to the students. The Department of Biotechnology admits students to the Postgraduate Biotechnology Programme through a Combined Entrance Examination (CEE) conducted by Jawaharlal Nehru University, New Delhi and by

the entrance examination conducted by Guru Nanak Dev University, Amritsar. The students selected through CEE conducted (except Punjab Domicile students) by JNU, New Delhi are awarded a scholarship of Rs. 3,000 per month throughout the two years of their study.

BOTANICAL & ENVIRONMENTAL SCIENCES

The Department of Botanical & Environmental Sciences is UGC-DRS and DST-FIST sponsored department. The department offers programmes of studies leading to the award of M.Sc. Botany, M.Sc. Environmental Sciences and doctorate in Botany and Environmental Sciences. The thrust areas of the department are Plant Biotechnology/Molecular Biology, Stress Physiology, Mutagenicity, Biodiversity, Natural Plant Products, Ecotoxicology, Water, Air and Soil Pollution. The teaching pedagogy includes field visits, project report, guest lecture, interaction meets, seminars, research techniques as an integral part of curricular. The students are given sufficient exposure to use and develop computer software for use in research and teaching. The spirit of community participation is inculcated by organizing environmental awareness campaigns, shramdaan camps, vanmahotsav, and industrial tours etc. on regular basis.

HUMAN GENETICS

The Department of Biology was established in 1973 under the specific recommendations of the University Grants Commission to impart education and to conduct research in emerging disciplines of biological sciences. It was redesigned and elevated to the School of Life Sciences in 1988 with five major disciplines: Botanical Sciences, Human Biology and Human Genetics, Microbiology, Molecular Biology and Biochemistry, and Zoological Sciences. The discipline of Human Biology and Human Genetics came into existence as a separate department in 1990 and was renamed as Department of Human Genetics in 1993. The Centre for Genetic Disorders was set up in the department in 1990 under a grant of Rs 1.57 Crores sanctioned to Prof. Jai Rup Singh by the Department of Biotechnology, Govt. of India. As per the undertaking given to Govt. of India, the Guru Nanak Dev University took over the Centre after 5 years. The Centre for Genetic Disorders was merged with the Department of Human Genetics w.e.f. April 1, 2010. Since its inception, the centre has been providing diagnostic services to cases suspected of chromosomal anomalies and guidance regarding future options to patients and families with genetic diseases.

MICROBIOLOGY

The Department of Microbiology is a DST-FIST sponsored, and a UGC-SAP-(DRS-II) recognized Department. The Department offers M.Sc. (Hons) in Microbiology and M.Sc. (Hons) Fermentation & Microbial Technology on credit based system. In addition department also admit students for Ph.D. degree and presently 18 such students are registered with different faculty members. The courses are comprehensively designed to train the students theoretically and practically for fermentation and microbiology studies befitting to research institutions/industries. The department is on active interaction list with the reputed fermentation industries and top research institutes of India. The faculty is actively engaged in teaching and research. The scheme of Courses/Syllabi are regularly updated. The students from the department have been placed in the industries, teaching and research institutions of repute. A number of research projects from various agencies like DBT, CSIR, UGC, DST, DAE, ICMR and ICAR have been completed and are going on in the department. The department has produced 47 Ph.D. students till date who have occupied good positions in teaching and research in India and abroad including USA, Canada, South Africa, Europe and Australia.

MOLECULAR BIOLOGY & BIOCHEMISTRY

The School of Life Sciences was carved out of the Department of Biology in 1988 with five major disciplines: Botanical Sciences, Human Biology and Human Genetics, Microbiology, Molecular biology and Biochemistry and Zoological Sciences. Subsequently in 1990, these five major disciplines were separated as independent departments. The department takes up fundamental and applied aspects of Molecular Biology and Biochemistry in its teaching and research programmes. The department admits students to the programmes leading to the awards of M.Sc. and Ph.D. degrees. The current numbers of seats are 50 in M.Sc. and the number of students admitted in Ph.D. varies from year to year. Admissions were made on the basis of entrance test. The students are evaluated on the basis of continuous evaluation of their performances under credit based evaluation

and grading system. The research activity of the faculty members encompasses very diverse areas like: infectious diseases such as Tuberculosis & Malaria, complex genetic diseases and lectinology.

PHARMACEUTICAL SCIENCES

The Department offers a four year B.Pharmacy Degree course, two year M.Pharm. course and Ph.D. programme. The department is approved by Pharmacy Council of India (PCI), New Delhi and All India Council of Technical Education (AICTE), New Delhi. From this year GPAT/GATE qualified PG students of the department are getting the fellowship of Rs. 8000 per month from AICTE, under PG scholarship scheme. Department is equipped with modern facilities for effective practical training of the students, which include HPLCs, FTIR, UV-VIS spectrophotometer, ultrasonicator, rotary tableting machine, dissolution apparatus, Franz diffusion cell, student physiograph, deep freezer and stability testing chamber, Rheometer, Rat Cuff Kit (Non-invasive blood pressure measurements), Particle Size Analyzer, Auto analyzer, stability chamber, refrigerated centrifuge and Buchi rotary evaporator. The department has ongoing research programmes in medicinal chemistry, synthetic organic chemistry, development and characterization of novel drug delivery system based pharmaceutical formulations. These programmes are funded by various national funding agencies.

ZOOLOGY

The Department was established in 1990. The department offers courses leading to the award of degrees in M.Sc. and Ph.D. The department has an upto date infrastructure with facilities like animal house, museum, Insect culture room, computer lab and vermiculture unit. The main research areas in the department are insect physiology, biological control of insect pests, aquatic biology, aquatic toxicology, nematology, cytogenetics and vermiculture. The department is DST-FIST and UGC-SAP sponsored.

FACULTY OF PHYSICAL EDUCATION

PHYSICAL EDUCATION

The Department of Physical Education (Teaching) was established in 1980 with the sole aim to provide excellent opportunities and capabilities to the sports persons having outstanding carrier and to produce good Physical Education Teachers. It started with two courses viz. B.P.Ed. and M.P.Ed. each of them was of one year duration. But from the session 2005-2006, the duration of M.P.Ed. course has been increased to 2 years and from the session 2015-2016 the duration of B.P.Ed. course has been increased to 2 years. The admission to the courses is based on Physical Fitness Test (Qualifying), and merit of academic and sports performance. The students of this Department participate in various University, All India Inter-University, National and International Competitions. Our students contribute very significantly to the sports performance of the Guru Nanak Dev University. A research lab was established in the Department in the 2005 and it has benefited the students in acquiring knowledge on emerging trends in the field of Sports and Physical Education.

FACULTY OF PHYSICAL PLANNING & ARCHITECTURE

ARCHITECTURE

The Department was established in the year 1986 as a part of Guru Ram Das School of Planning and Architecture and was the first institute in Punjab to start five years integrated B.Arch. Degree course. It started working independently as Department of Architecture in 1989 and is the oldest & premier institute in the region. Over the years, the department has evolved into a leading institution in the region by virtue of having excellent human resources as well as technical infrastructure.

The department is equipped with state of the art laboratories such as Computer labs (with latest ARCHICAD software), Arts and Graphics Lab, Surveying Lab, Building Material Testing Lab, Material Museum, Thesis & Report Section and also a Seminar Hall with seating capacity of 120. The Department of Architecture and GRD School of Planning are housed in a single building with Architecture Department occupying 2 ½ floors of the 4 storeyed building (approx floor area 3700 sq.m). The provision of the common facilities like Auditorium, Seminar halls, guest house and world class sports infrastructure is available at the University level.

With academics as its main intent, the department has also leapfrogged in the areas of research and consultancy in the last few years by securing research projects and providing architectural consultancy to State Government and Guru Nanak Dev University for various projects. The mission of the department is to develop a holistic vision of the students towards various issues of physical environment by evolving an integrated design approach incorporating the understanding of different disciplines that come together in conceptualization of creative ideas. The department also initiated two years full time Master in Architecture (M.Arch.) programme in 2011 with specialization in Urban Design. From time to time, the syllabi and scheme of B.Arch. and M.Arch. (Urban Design) courses are exhaustively reviewed and revised in the light of national/international professional needs and trends.

GURU RAMDAS SCHOOL OF PLANNING

Guru Ramdas School of Planning was established to impart education and training School of Planning at Post Graduate level in the field of City and Regional Planning. Initially, the School conducted two years Master's Degree in City and Regional Planning (MCRP). Later on, the nomenclature of the course was changed to Master of Technology in Urban Planning (M.Tech. U.P.). At present, School conducts three academic programmes, one at the Under Graduate level i.e. B.Tech. (Urban and Regional Planning) which is of 8 semesters and the others at the Post Graduate levels i.e. M.Tech. (Urban Planning) and Master in Planning (Infrastructure) which are of 4 semesters each. The School has emerged as one of the important professional institution in the country for imparting education and training in the field of Urban and Regional Planning. The School so far has trained more than 500 town planners at Masters and Bachelor levels. These graduates from this School are serving in different capacities in different government and private town planning and allied organisations at National and State level in India and abroad. Alumni of the School have been appointed as Chief Town Planners of Jammu & Kashmir, Himachal Pradesh, Haryana, Punjab, Rajasthan and Arunachal Pradesh, etc.

FACULTY OF SCIENCES

CHEMISTRY

The Department of Chemistry established in 1971, with its team of hard working and dedicated teaching and non-teaching staff, over the period of time has attained a respectable place at the national and international level. Department of Chemistry has been designated by the UGC as 'Centre of Advanced Studies' (CAS) for the period 2008-2013 under phase-I and again in 2014 under phase-II. DST has also sanctioned a grant of Rs.256 lac under its FIST programme for the period 2009-2014 to purchase 400 MHz NMR Spectrometer and a single X-ray machine. The state of the art research facilities in the department such as 300 MHz NMR spectrometer, X-Ray powder Diffractometer, IR with variable temperature facility, Mossbauer Spectrometer, Fluorescence Spectrophotometer, CHNS Analyzer, HPLC, Tensiometer, Magnetic Susceptibility Balance, molecular modelling software, etc. and modern fume-hoods are available in the research laboratories. The Department has been making constant efforts to provide quality education in the area of the Chemistry. New course syllabi are continuously being framed from time to time to keep up with latest development in the subject field.

FOOD SCIENCE AND TECHNOLOGY

The Department of Food Science and Technology was established in 1994 with the objective of generating highly skilled manpower to meet the requirements of food processing industry. The M.Sc. (Food Tech.) program was started in 1994 and after its success was followed by B.Tech. (Food Tech.) program in 1995. The department of Sugar & Alcohol Technology has also been merged in this department w.e.f. 1.4.2011. The department also offers research guidance leading to Ph.D degree. The department is well equipped with sophisticated instruments to carry out advance research in Food Science. Faculty members are providing consultancy and analytical services to Food Industry and Government welfare programs. The department has close association with well known MNCs like Nestle India Ltd., Pepsi Foods (P) Ltd., Glaxo Smithkline Beechem Consumer Healthcare Ltd., Cadburys India Ltd., Joyco, Heinz, etc. Several students after completing degree from the department have got admissions in M.S. Degree programs and Fellowships in Internationally Reputed Institutions.

MATHEMATICS

The Department of Mathematics, established in 1970, has a team of nine faculty members (including one Emeritus Fellow, UGC) with expertise in diverse areas of Mathematics/Statistics subjects. It offers courses leading to M.Sc. Degree in Mathematics and Ph.D. Degree in Mathematics/Statistics. This department also looks after the Mathematics/Statistics components in the other University departments. This department provides research facilities in the areas of Approximation Theory, Functional Analysis, Applied Functional Analysis, Wavelet Analysis and Applications to Industry and Finance, Information Theory, Operations Research, Multiple Comparisons, Ranking & Selection procedures, Queuing Theory, Survey Sampling Theory, Instabilities in Fluids, Analytical Number Theory and Non-Commutative Ring Theory. The department has been regularly organizing International Conferences, refresher courses in Mathematics and lectures by eminent Mathematicians from different parts of the world.

PHYSICS

The Department of Physics, established in 1979, has a team of faculty members with expertise in diverse areas of Physics. It offers courses leading to the degree of B.Sc. (Hons. School), M.Sc. (Hons. School), M.Sc. (Hons.), M.Sc. (Applied Physics) Electronics and Ph.D. in Physics. The objective of these courses is to promote Physics at under/post-graduate levels, to generate enlightened manpower to cater the needs of teaching, research and allied establishments. It also caters to the needs of Science of Engineering departments of the University. Another main objective is to promote research in basic and applied thrust fields of Physics. Special Papers in Radiation Physics, Reactor Physics, Material Sciences, Plasma Physics, Geophysics, Digital Communication etc are being offered to the Post Graduate students. Experimental research facilities leading to Ph.D. degree have been established in the areas of Material Sciences, Polymer Physics, Nuclear Geo-Physics based Seismotectonic studies, Radiation Physics, Environmental Radioactive studies, Solid State Nuclear Track Detectors (SSNTD), Thin Films, High Energy Physics, Plasma Physics, Gas Sensors etc. In theoretical Physics, the department has researchers working in the areas of Nuclear Theory, Plasma Physics, Laser Plasma interactions and Transport Phenomenon in Gases.

FACULTY OF SPORTS MEDICINE & PHYSIOTHERAPY

SPORTS MEDICINE & PHYSIOTHERAPY

The Department of Sports Medicine and Physiotherapy, established in 1995, has been recognised as Centre for Excellence in Sports Sciences by the UGC, and one of the major research centres in this field. This is the only department in India, which offers Ph.D. program in Sports Medicine and Sports Physiotherapy. It has one of the most comprehensive research laboratories in the fields of Neurophysiology, Motion Analysis, Human Performance, Sports Psychology, Exercise Physiotherapy, Kinanthropometry, Exercise Physiology, Isotonic and VO₂ calculation. The department is running Bachelor in Physiotherapy, Masters in Exercise Physiology and Nutrition, Masters in Hospital Administration and Masters in Sports Psychology and Masters in Sports Physiotherapy are the five programs. The department also introduced M.D. (Sports Medicine) the first clinical course of Doctor of Medicine (Sports Medicine) in Asia. The course is recognized by Medical Council of India. It was granted UGC-SAP DRS phase-I: "In the area of Life Style Disease and Human Performance Evaluation" in year 2014. For the benefit of sportspersons, the department runs the Sports Medicine Clinic and Centre for Excellence in Sports Physiotherapy. The department also has extension services in terms of providing physiotherapy and medical cover to various sporting events on campus, regional sporting events in Punjab and even national events.

FACULTY OF VISUAL ARTS & PERFORMING ARTS

MUSIC

The Department was established in the year 1992. The Department of Music is working with the aim and objective to train the students in different fields of Music: Classical Music, Light Music, Folk Music, and Devotional Music for direction, composition, performance, teaching and other allied fields of modern period which is the basic need of today for job oriented opportunities. The department offers courses: M.P.A. (Music Vocal), M.P.A. (Music Instrumental), M.Phil. (Music Vocal & Music Instrumentation) and Ph.D. Programmes. The department has produced many National and International level artists.