

Faculty of Sciences

DEPARTMENT OF CHEMISTRY (Centre for advanced studies-UGC)

STAFF

Professor Emeritus & INSA Scientist

Harjit Singh, Ph.D.
M.P. Mahajan, Ph.D.

Professor

Tarlok Singh Lobana, Ph.D.
Maninder Singh Hundal, Ph.D.
Rakesh Kumar Mahajan, Ph.D.
Ishtiaque Ahmad, Ph.D.
Subodh Kumar, Ph.D. (Head)
Balwinder Singh Randhawa, Ph.D.
Tarlok Singh Banipal, Ph.D.
Sukhwinder Kaur Chawla, Ph.D.
Geeta Hundal, Ph.D.

Reader

Swapandeep Singh Chimni, Ph.D.
Sumanjit Kaur, Ph.D.
Sukhpri Singh, Ph.D.
Manoj Kumar, Ph.D.
Damanjit Kaur, Ph.D.
Paramjit Kaur, Ph.D.

Lecturer

Ashwani Kumar Sood, M.Tech.
Param Paul Kaur, Ph.D.
Palwinder Singh, Ph.D.
Vandana Bhalla, Ph.D.
Inderpreet Kaur, Ph.D.
Vipan Kumar, Ph.D.

Courses offered / Distribution of seats

Course	Duration (Year)	System	Total Seats	Reserved Categories				
				SC/ST	BC	RA	Others	
B.Sc. (Hons. School)	3	Semester	50	12	3	4	6	
M.Sc. (Hons. School)	2	Semester	40	10	2	3	5	
M.Sc. (Hons.)	2	Semester	42	11	2	3	5	
M.Sc. Applied Chemistry (Pharmaceuticals)	2	Semester	40	10	2	3	5	

Eligibility

B.Sc.(Hons. School): (a) Senior Secondary Certificate (+2) examination from Punjab School Education Board with at least 50% marks in aggregate in any science group or (b) Any other examination with 50% marks in aggregate recognized equivalent to (a) above by the Guru Nanak Dev University.

Admission will be based on merit of the candidate in qualifying examination. The Coordinator of admission shall be Prof. B.S. Bajwa, Head, Department of Physics

M.Sc. (Hons. School): (a) B.Sc. (Hons. School) in Chemistry from Guru Nanak Dev University with a minimum of 50% marks in aggregate, or (b) Any other degree recognized equivalent to (a) above by the Guru Nanak Dev University with a minimum of 50% marks in aggregate.

Admission will be based on merit of the candidate in B.Sc. (Hons. School)

M.Sc. (Hons) Chemistry/M.Sc. Applied Chemistry (Pharmaceuticals): (a) B.Sc. (10+2+3) with any combination of science subjects with Chemistry from Guru Nanak Dev University with a minimum of 50% marks, or (b) Any other examination recognized as equivalent to (a) above by the Guru Nanak Dev University.

Admission will be based on merit of the candidate in the qualifying examination.

Special Features

The Department of Chemistry came into existence in 1971. Over a period of time, it has emerged as one of the premier Departments not only of the University, but has also acquired prestigious status even at National Level. The Department has been designated as Center for Advanced Studies by the UGC for the period of 2008-2013. It has also been supported by the DST under its programme for improvement of Science & Technology (FIST). In each masters programme, the pursuing of independent research in final year and submission of dissertation is distinguished feature.

The research activities of the Department focus on synthetic organic chemistry, supramolecular chemistry, structural inorganic chemistry, drug design, material science, electrochemistry, chemistry of surfactants, chemistry of oils and fats, theoretical chemistry, thermodynamics, analytical chemistry. Every year about ten students clear UGC-CSIR (NET)/GATE test. The faculty of the Department runs more than twenty research projects funded by CSIR, UGC, DAE, DST and DBT etc. State of the art instruments like NMR, X-ray Diffractometer, GC Mass, UV, Fluorescence and Atomic Absorption Spectrometer, HPLC, DSC, Polarograph, Mossbauer spectrometer etc. are available for research and teaching. The Department has contributed more than 450 papers in SCI journals in the last decade. The contributions of the Department have been recognized both nationally and internationally and its faculty members have been awarded F.N.A.Sc. (2), CRSI gold medal, silver medal, bronze medal, Oil Technology award, Bhagya Tara Award, Prof. M. S. Wadia Award etc.

Several faculty members have exposure to foreign research laboratories in the form of post doctoral and visiting Professors/Scientists and are fellows of academies of national repute and are also recipients of research medals. The faculty has collaborations with Indian and Foreign scientists. The leading scientists visit from time to time and deliver lectures on various subjects at basic and advanced levels. The Department of Chemistry actively participates in national and international conferences and symposia. It also holds regular basis refresher courses, national conferences / symposia / meetings on regular basis.

The Department receives ONLINE journals from Royal Society of Chemistry, American Chemical Society, Taylor and Francis, Kluwer incorporation etc.. Library has collection of 16500 books/references. The Book Bank incepted from 1972, lends books to the students for the entire session at nominal charges and nearly 200 students are benefited by this. The Chemical Society, run by the students, looks after all the extracurricular activities of the students.

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