

DEPARTMENT OF BIOCHEMISTRY
KURUKSHETRA UNIVERSITY KURUKSHETRA

Department profile

The Department was started in 1991. Prof Hari Singh, presently working as Prof Emeritus in the department, was the founder chairman of the department. It has the basic infrastructural facilities for research & teaching. It has M.Sc. and Ph.D. Programmes in Biochemistry. The student intake in M.Sc. Biochemistry is 12+10 (NRI/Industry sponsored). Its duration is two years. The course curriculum is based on UGC model syllabus and that is why so many students of the Department have been able to compete successfully in the national level tests like NET and GATE. Till now 56 students have cleared NET examination and 57 students have passed GATE.

The Department also has Ph.D. program with the modest facilities that have been acquired over the period. Nine students have been awarded Ph.D. degrees and 17 students are working towards their Ph.D. Some of the PhD students are working in other research institutes in collaboration with the university. The Department has a highly qualified faculty with 1 Prof Emeritus, 1 Professor & 3 Lecturers. The Internet facility is available in the department. All the teachers, research scholars and other students have access to internet facility. The Department has a library, which has an excellent collection of books. There is a well equipped instrument room.

The department also desires to support outreach activities for weaker and under-privileged sections of the society in the neighborhood community. To be more specific, we plan to help these sections by making them aware about nutrition and biochemical indices for disease diagnosis. A modest effort in this direction has already been started in collaboration with NSS.

Vision and Goals:

- ❖ In view of the sequence elucidation of human genome, in future there will be need for manpower to explore the functions of various genes present in human genome. So the department proposes to start a new Diploma Course in Bioinformatics, if funding and teaching positions are given.
- ❖ To have effective teaching so as to generate well trained manpower.
- ❖ To intensify and maximize productive research.
- ❖ To increase the research and academic capacity of the students.
- ❖ To add more resources to the existing base.
- ❖ To exploit biochemistry for the benefit of the state & its people.

Chairperson : Dr. V. K. Gupta

Contact Information : Ph. (M) 9416782476

Faculty Information

Teacher	Joining Date	Specialization	Qualification	Contact Information
Dr. V.K.Gupta Professor & Chairperson	01.07.02	Enzymology Plant Biochem& Biotechnology	Ph.D	Ph (M) 9416782476
Dr.J.S.Dhanda Lecturer	23.1.96	Molecular biology	-do-	Ph (M) 9416369913
Dr.Suman Singh Lecturer	01.10.03	Enzymology	-do-	Ph (M) 9416369913
Dr.Ranjan Gupta Lecturer	9.08.04	Biochemistry	-do-	Ph.(O) 01744-238410Ext 2599

Courses offered

Type of course (Postgraduate & others)

System of Examination

M.Sc. (Biochemistry)

Annual Examinations

Ph.D. (Biochemistry)

Through Entrance Test for those who have not qualified NET. Scientists/UGC/CSIR-NET qualified/ Regular or Approved teachers/URS are exempted from the entrance test.

Profile of different courses offered

Degree Type	Course Duration	No. of sanctioned seats	Scheme of Exam.(Annual/ Semester)
M.Sc.(Biochemistry)	Two years	12+10* (NRI/Industry Sponsored)	Annual

Details of different courses

Course Name : M.Sc. (Biochemistry)
Course Type : Post-graduate
Exam. Scheme : Annual
Duration : Two years

Semester-wise/Year-wise details

M.Sc. (Previous)

Paper code	Paper Name	Paper Type	Paper Remarks	Max. Marks	Internal Marks	External Marks
Paper-I	Organic Chemistry & Biomolecules	Theory		75		75
Paper-II	Molecular Cell Biology & Physiology	Theory		75		75
Paper-III	Enzymology	Theory		75		75
Paper-IVA	Bionergetic & Intermediary Metabolism	Theory		75		75
Paper-IVB	Biophysical & Biochemical Techniques	Theory		40		40
Paper-V	Lab Course-I	Practical		70		70
Paper-VI	Lab. Course-II	Practical		70		70

M.Sc. (Final)

Paper code	Paper Name	Paper Type	Paper Remarks	Max. Marks	Internal Marks	External Marks
Paper-VII	Advanced Molecular Biology	Theory		75		75
Paper-VIII	Plant Biochemistry	Theory		75		75
Paper-IX	Nutritional & Clinical Biochemistry	Theory		75		75
Paper-X(A)	Immunology & Microbial Biochemistry	Theory		75		75
Paper-X(B)	Computers & Biostatistics	Theory		40		40
Paper-XI	Lab Course-3	Practical		70		70
Paper-XII	Lab. Course-4	Practical		70		70

Facilities

Library : We have very good collection of books in the departmental library.

Teaching Labs: There are two well equipped teaching labs.

Other facilities: There are two research labs.

Placement Cell

Nil

Placement information for the year 2005-2006.

Ph.D. Students

Dr.Savneet has been appointed as DBT- PDF in the Department of Cellular & Molecular Cardiology, Sree Chitra Trimul Institute of Medical Sciences & Technology, Trivandrum Kerala.

Dr. Jyotsana is working as PDF in Vaccine and Infectious disease organization, University of Sasketchewan, Saskatoon.

M.Sc. Students

Working as Adhoc lecturers: 06

Pursuing further studies : 02

Information on Seminar and Conferences

Seminar/Conferences organized by the Department (2006-07): nil

Information on Research Projects

Topic Name

Incharge

From

To

Completed Projects

Intracellular Proteolytic Enzymes:
Immobilization & study of their altered
Characteristics.

Dr. Hari Singh

01.07.03

30.06.06

“Bioconversion of lignocellulosic feedstock
into ethanol as biofuel.”

Dr. V.K.Gupta

25.03.03

30.11.05

On Going Projects

The Study of hepatitis B virus core
Promoter mutations in Indian isolates for
The development of possible biomarker(s)
hepatocellular carcinoma

Dr J.S. Dhanda

21.4.06

20.4.09

Molecular cloning and characterization of
Gene encoding novel dipeptidyl aminopeptidase
From goat from brain: a functional homologue
of DPP-III

Dr. Suman Singh

21.4.06

20.4.09

Information on Achievements

Achievement Area

Achievement Details

Qualifying NET

Five students qualified NET