

CENTRE FOR MEDICAL BIOTECHNOLOGY



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ABOUT CMBT

The centre is sponsored by Department of Biotechnology (DBT), Government of India. The centre offers **Masters programme** in the field of Medical Biotechnology and **Doctorate programme** in same or related field. The centre has its state-of-the-art infrastructure and laboratory facilities.

FACILITIES

- ❖ Animal House Facility
- ❖ Well organized Insectary
- ❖ Strong Central Instrumentation Facility
- ❖ Animal cell culture facility
- ❖ Centrally air conditioned.
- ❖ Bioinformatics centre with 24 hrs internet facility

ACADEMICS

MASTER PROGRAMME

- Students are admitted to the M.Sc. programme on the basis of an All-India entrance examination conducted by Jawahar Lal Nehru University (JNU) and through MDU merit List
- Programme is supported by Department of Biotechnology (DBT) , Govt. of India
- Total intake of students in this programme is 20
- Theory courses is based on Choice Based Credit System.
- Programme places particular emphasis on practical learning
- CMBT also emphasis on enhancing the communication and comprehension skills
- Dissertation in final semester
- Journal Club

DOCTORATE PROGRAMME

- CMBT offers multi and inter-disciplinary doctoral programme to train outstanding students in basic and applied research.
- Students can secure admission to the Ph.D. program of CMBT after qualifying entrance examination and viva-voce.
- The Students having qualified for Junior Research Fellowship of UGC/CSIR/DBT/ICMR
- CMBT offers state-of-the-art instrumentation facility
- Thrust areas of research includes Immunology, Virology, Genomics , Stem Cell Biology, Diagnostics and Genetic Engineering

FACULTY

Director

Professor S. K. Gakhar

Coordinator

UGC-SAP

DST-FIST

Life-Sciences Builder Grant

Bioinformatics Centre



Sr. No.	Name	Qualifications	Designation	Area of specialization
1.	Dr. S.K. Gakhar	Ph.D.	Professor	Malaria
2.	Dr. Anita Suneja Dang	Ph.D.	Assistant Professor	Immunology
3.	Dr. Harimohan	M.V.Sc.	-do-	Virology
4.	Dr. Anil Kumar	Ph.D.	-do-	Genomics
5.	Dr. Rashmi Bhardwaj	Ph.D.	-do-	Stem Cell Biology

ADMISSIONS

Programmes Offered, Duration, Intake, Total Annual Fee and Eligibility

S. No.	Name of the Programme	Minimum Duration (Years)	Mode of Admission	Total Annual Fee in Rs.	Eligibility
A	M.Sc. (Medical Biotechnology)	2	JNU Entrance Examination & MDU Merit	9,000/-	Bachelor's degree in Physical, Biological, Agricultural, Veterinary and Fishery Sciences Pharmacy, Engineering/ Technology, 4-years B.Sc. (Physician Assistant Course); OR Medicine (M.B.B.S) OR B.D.S with at least 55 % marks
B	Pre-Ph.D.	1/2	MDU Entrance Examination	5000/-	Master Degree with at least 55% marks in aggregate in the concerned subject or an allied subject (50% for SC/ST candidates of Haryana).

SCHOLARSHIP

The selected candidates through JNU entrance examination are given a scholarship of Rs. 5000/- month by the Department of Biotechnology (DBT), Government of India.

COURSE CURRICULAM (OUTLINE)

M.Sc. (Semester-I)	
Sr. No.	Subject
1	Cell Biology
2	Biomolecules and Metabolism
3	Microbiology
4	Molecular Biology
5	Biostatistics*
6	Computer application in Biostatistics*
7	Communicative Skills
8	Lab Course- I
9	Lab Course- II
10	Self Study Paper

M.Sc. (Semester-II)	
Sr. No.	Subject
1	Immunology
2	Bioinformatics
3	Human Physiology and Developmental Genetics
4	Genetic Engineering
5	Animal Cell Culture & Vaccinology *
6	Fundamentals of Computer Programming and Algorithm*
7	Plant Cell Culture*
8	Microbial Technology*
9	Seminars
10	Lab Course- I
11	Lab Course- II
12	Self Study Paper

Pre-Ph.D.	
Sr. No.	Subject
1	Computational and systems biology
2	Trends in medical biotechnology
3	Research Methodology
4	Review writing and presentation
5	Seminar

M.Sc. (Semester-III)	
Sr. No.	Subject
1	Medical Microbiology and Biology of Infectious diseases
2	Stem Cell Biology and Somatic and Germ Cell Engineering
3	Human Genetics and Genomics
4	Drug Designing and Pharmacogenomics
5	Diagnostics *
6	Drug Designing and Cheminformatics*
7	Environmental Biotechnology*
8	Plant Stress Biology*
9	Lab Course- I
10	Lab Course- II
11	Seminars
12	Self Study paper

M.Sc. (Semester-IV)	
Sr. No.	Subject
1	Management issues in Biotechnology*
2	IPR and Biotechnology*
3	Social, Ethical and Legal Issues in Medical Biotechnology *
4	Bioentrepreneurship*
5	Seminar
3	Dissertation

* Choice based paper: Students need to take one paper out of the choice given.

To download course curriculum in detail click on the link given below

RESEARCH

The faculty members in CMBT continuously attracting extramural funding from different scientific agencies for running various research projects. This has also contributed immensely in building up adequate infrastructure for advanced research. The major fields of research in CMBT are

- Genetic engineering
- Immunology
- Genomics and Proteomics
- Virology
- Stem cell Biology
- Diagnostics

CONTACT US

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