"Our School offers students an environment to carry out research in areas at the interface of the engineering and biological sciences. Students graduating from our School have a strong foundation in fundamental concepts, are capable of independent thinking and trained in using state of art facilities"

Prof. James Gomes
Head of the Department
ABOUT US:

The Kusuma School of Biological Sciences was founded in December 2008, with the help of a core grant received from the Kusuma Trust, UK and a supporting grant from the Institute. The School runs a PhD program and a MS Research program for graduate students. For undergraduate students of IIT Delhi, it offers a minor area program in Biological Sciences and a core biology course. The School has 15 different laboratories that are well equipped with the latest equipment being used in various fields of biological sciences.

VISION
To become the pioneers of modern interdisciplinary biological sciences by integrating emerging disciplines with biological sciences, and to nurture a vibrant comprehensive program in research and instruction.

MISSION
Promoting goal-oriented innovative interdisciplinary research by interfacing modern biology with applied engineering sciences to address problems affecting human health and welfare, and training scholars to be the next generation scientists.
Prof. Manidipa Banerjee
PhD
University of California

Prof. Manoj Menon
PhD
Hannover Medical School

Prof. Shilpi Minocha
PhD
University of Zurich

Prof. Tapan K Nayak
PhD
Indian Institute of Science Bengaluru

Prof. Tapan K Chaudhuri
PhD
Bose Institute Calcutta

Prof. V Perumal
PhD
Christian Medical College
PROGRAMS OFFERED

The School offers **MS(R)** and **Ph.D. programmes** to students based on consolidated performance in various National Eligibility examinations, and a screening test and interview conducted by the School.

The research projects undertaken by the students to fulfill the requirements of the MS and PhD thesis are at the leading edge of the research, globally competitive and often multi-disciplinary in nature.

Students are required to perform independent research, invest time to carry out comprehensive and in-depth study and to inculcate the best research practices using the state of art facility available at our department.

The courses of the MS(R) and PhD programme are up-to-date in research and academic content, based on solid fundamentals and taught by professors who are among the best in the country.
COURSES OFFERED

The main courses provided by the School are given in the box below. A complete list of the courses offered by the School is given in the Courses of Study of IIT Delhi. Apart from these courses, there are elective courses which a student can select from various offered other departments based on their interest or research requirement.

- Cell Signaling
- Biology of Proteins
- Chemical Biology
- Trends in Computational Biology
- Human Virology
- Quantitative Biology
- Mammalian Genetics
- Graduate Research Seminar

- Structural Biology
- Epigenetics of Human Health & Disease
- Biometry
- Systems Biology
- Advanced Cell Biology
- Bacterial Pathogenesis
- Developmental Biology
RESEARCH FACILITIES

- FPLC
- Atomic force microscope
- RT-PCR
- Cryo-EM
- Microarray
- Confocal Microscope
- MALDI TOF
- n-LC EST Mass Spectrometer
RESEARCH AND DEVELOPMENT

01 VIROLOGY
02 STRUCTURAL BIOLOGY
03 COMPUTATIONAL BIOLOGY
04 NANOBIOENGINEERING
05 PROTEIN STRUCTURE & FUNCTION
06 CELL SIGNALING AND PATHWAYS
PAST RECRUITERS
Tea, haritaki extracts may act as potential therapeutic options against COVID-19: IIT-Delhi study

The institute claims that medical plants can provide a cost-effective therapeutic option to curb the severity of the viral disease in humans, with minimal toxicity.

IIT-Delhi develops COVID-19 test kit, gets ICMR's approval

“We started working on it by the end of January and got it ready in three months. We wanted to contribute to affordable low-cost diagnostics that could be used in large numbers,” V Perumal, Professor at IIT-Delhi, told ANI.
MAJOR FUNDING PROVIDERS

Department of Science and Technology (DST)

Department of BioTechnology, Government of India

CSIR - India

INSERB India

ICMR

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