



University School of Basic & Applied Sciences Guru Gobind Singh Indraprastha University Sector 16 C, Dwarka , New Delhi 110078

Admissions (2023-24)

M.Tech. & Ph.D. Programmes

University School of Basic and Applied Sciences is one of the earliest schools of the Guru Gobind Singh Indraprastha University and was established to promote teaching and research in basic & applied sciences. This academic session the school is offering admission to *M.Tech (Engineering Physics)*, *M.Tech (Nano Science and Technology)* and three *Ph. D. programs (Physics, Chemistry and Mathematics)*.

M. Tech. (Engineering Physics) – 2 years

M.Tech in Engineering Physics is a specialized novel postgraduate program designed to bridge the gap between Physics, Engineering and Technology. The program aims to train the students for both the professional job market and basic and interdisciplinary research by training in experimental skills and modern techniques through hands-on experience and exposure to futuristic subjects (*basic foundations and methods in computation, machine learning, alternate energies, Nanotechnology, Quantum Information, data and information sciences*) with applications in industries and academia.

This postgraduate programme is approved by AICTE. All the admitted GATE qualified students are eligible for a scholarship as per the AICTE norms.

Eligibility Criteria: Minimum 55% or equivalent in the qualifying examinations as under:

BE/B.Tech. Electronics/Computer Science / Electrical / Engineering Physics / Information Technology/Instrumentation & Control or Equivalent OR M.Sc. in Physics / Applied Physics / Electronics / Mathematics or equivalent with minimum of 55% marks in aggregate in the qualifying degree. However, candidate must have studied Physics at the undergraduate level.

Programme Coordinator : Dr S Neeleshwar (sn@ipu.ac.in)

M.Tech. (Nano Science & Technology) – 2 years

M. Tech in Nanoscience and Technology is a specialized, novel post graduate course initiated in 2008 under the Nano Mission Program of DST, Ministry of Science and Technology, Government of India. This program is geared towards generation of trained manpower in the field of Nanoscience and Technology. Our program provides hands-on training on state-of-art equipments to the students for acquiring necessary skills and preparing them for the professional job market and exciting basic and interdisciplinary research careers in science.

Focus Areas: *Mesoporous materials, Nanosensors, Nano-bio systems / Nanomedicine, Multifunctional Hybrid Nanomaterials, Plasmonics, Photocatalysis, Catalysis, Energy materials & Nanofluids, Computational Nanoscience*

Eligibility Criteria: Minimum 55% or equivalent in the qualifying examinations: M.Sc.(Physics / Applied Physics / Electronics / Mathematics / Chemistry / Biotechnology / Biosciences/ Life Sciences / Material Science); B.E./B.Tech (Electronics / Computer Science / Electrical / Mechanical / Engineering Physics / Metallurgy / Material Engineering / Information Technology / Biotechnology / Biomedical / Chemical Engineering or Technology); or equivalent and Mathematics as one of the subjects at 10+2 or undergraduate level is a must.

Programme Coordinator : Prof. Vaishali Singh
(vaishalisingh@ipu.ac.in)

Admission Procedure for M.Tech programs:

GATE qualified applicants having a valid score card will get preference; Non-GATE Candidates will be shortlisted on the basis of a merit list prepared by the University based on the average percentage in the qualifying exam; First Counselling: The candidates will be called in order of merit and the seats are filled according to the seat matrix. The results will be displayed on university website; Second Counselling: The seats remaining vacant will be filled during the second counselling. The candidates absent during 1st counselling are eligible for second counselling. If the seats still remain vacant after second counselling, the vacant seats will be offered to the candidates during the Open House Counselling in order of merit as per university admission criteria.

Ph. D Programmes (Physics, Chemistry and Mathematics)

Eligibility criteria: Candidates seeking admission to the Ph.D. program should have a Master's Degree (in a relevant discipline) or a professional degree declared equivalent to the Master's degree by the corresponding statutory regulatory body, with at least 55% marks in aggregate or its equivalent grade 'B' in the UGC 7-point scale (or an equivalent grade in a point scale wherever grading system is followed) or an equivalent degree from a foreign educational institution accredited by an Assessment and Accreditation Agency which is approved, recognized or authorized by an authority, established or incorporated under a law in its home country or any other statutory authority in that country for the purpose of assessing accrediting or assuring quality and standards of educational institutions.

Full time research fellowships are available for eligible candidates (conditions apply)

Contact:

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* For details, admission criteria and reservation policies, refer to admission brochure on the University website
www.ipu.ac.in