



# University School of Basic & Applied Sciences Guru Gobind Singh Indraprastha University

Sector 16 C, Dwarka, New Delhi 110078

## Admissions (2021-22)

The USBAS is one of the earliest schools of the Guru Gobind Singh Indraprastha University established to promote teaching and research in the basic & applied sciences. Our teaching and research programmes combine the best fundamental and applied sciences and are propelled by the expertise of our highly experienced and competent faculty. This academic session we invite applications for admissions in the following programmes:

1. **M.Tech. (Engineering Physics)** 2. **M.Tech. (Nano Science and Technology)** 3. **Ph.D. (Physics)** 4. **Ph.D. (Chemistry)** 5. **Ph.D. (Mathematics)** (1-5 are offered at the main Dwarka Campus of GGSIPU) 6. **M.Sc (Packaging Technology)** (A new innovative program being offered for the first time at the campus of the Indian Institute of Packaging, Plot no. 21, Functional Industrial Estate, Patparganj, Delhi-92).

### M. Tech. (Engineering Physics) – 2 years

M.Tech (Engineering Physics) is a novel postgraduate program designed to bridge the gap between Physics, Engineering and Technology. Aims to train students for both the professional job market and basic and interdisciplinary research in theoretical and experimental skills and modern techniques through hands-on experience and exposure to futuristic subjects (*computational methods, machine learning, alternate energies, quantum information, data and information sciences etc.*) with applications in industries and academia.

This postgraduate program is approved by AICTE, all admitted GATE qualified students are eligible for a scholarship as per 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.

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

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

M. Tech (Nanoscience and Technology) is a novel post graduate program initiated in 2008 under the Nano Mission Program of DST, Ministry of Science and Technology, Government of India. This program aims to generate highly skilled and trained manpower in the field of Nanoscience and Technology. Our program provides hands-on training on state-of-the-art equipments for necessary skills that prepares our students for the professional job market and exciting basic and interdisciplinary research careers in science and academia.

**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.

Program Coordinator : Dr. 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 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 will be filled according to the seat matrix. The results will be displayed on the University website
- Second Counselling: The seats remaining vacant after 1<sup>st</sup> counselling will be filled. The candidates absent during 1<sup>st</sup> counselling are eligible for second counselling. If seats still remain vacant after second counselling, the vacant seats will be offered to candidates in an **Open House Counselling** in order of merit as per university admission criteria

### Ph.D. Programs (Physics, Chemistry, Mathematics)

**Eligibility Criteria:** Candidates seeking admission to the Ph.D. program should have a Master 's Degree (in 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 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).**

Program Coordinator : Dr. Abha Aggarwal (abha@ipu.ac.in)  
Dr. Yogesh K Tyagi (drytyagi@ipu.ac.in)

#### Contact:

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Website: <http://www.ipu.ac.in/usbas/index.php>

### M.Sc. (Packaging Technology) – 2 years

**Eligibility Criteria:** A candidate seeking admission for the M.Sc. (Packaging Technology) program should have passed a full time Graduate degree examination in Science (12<sup>th</sup> + 3 years degree, entire 5 years in science only) with Physics / Chemistry / Mathematics / Microbiology or Biochemistry as the main subject or one of them as second subject in the three year degree or Agriculture / Food Science / Polymer Science or Engineering / Technology degree of a AICTE / recognized University with minimum second class. Those with equivalent overseas qualification would also be eligible for admission.

The candidate needs to have consistently high academic performance and sound general knowledge.

Candidates appearing in the final year of the qualifying examinations can also apply; however, they must submit their results/provisional results (as given by University) latest on the day of the personal interview and selection, as without their degree result, student are not eligible to appearing for personal interview and will be eliminated from the admission process. **Maximum Age 30 years as on 31/05/2021 (Age relaxation: 5 years for SC/ST).**

**Admission Criteria/Selection Procedure:** Common Entrance Test (CET) followed by personal interview.

Program Coordinator : [Shri Madhab Chakraborty \(iipdelhi@iip-in.com\)](mailto:ShriMadhabChakraborty@iipdelhi@iip-in.com)  
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**Last Date for Online Registration: 15th July 2021**

\* For details, admission criteria and reservation policies, refer to admission brochure at following URL:  
<https://ipu.admissions.nic.in/lpuAdmiss/page/Page?PagelD=1&LangId=P>