GURU GOBIND SINGH INDRAPRASTHA UNIVERSITY

(Estd. by Government of NCT of Delhi in 1998)

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UNIVERSITY

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UNIVERSITY SCHOOL OF BASIC AND APPLIED SCIENCES (USBAS)

About USBAS:

- Established in 1998, USBAS was one of the foundation schools of GGSIPU (Established in 1998 by Government of NCT of Delhi).
- Teaching cum research designed curriculum in various disciplines viz. Physics, Chemistry, Maths, Nanoscience and Engineering Physics.
- Ph.D. programmes in Physics, Chemistry and Mathematics.
- Highly qualified and experienced faculty. Great alumni network and industrial tie-ups.
- Well equipped laboratories with advanced research facilities.

ACADEMIC PROGRAMMES OFFERED BY USBAS

Programme Name	***Programme Coordinator***	**Duration (in years)**	**Intake**
Ph.D.	Dr. Abha Aggarwal	As per university norms	As per vacant slots
M.Tech. (Engineering Physics)	Dr. S. Neeleshwar	2	18
M.Tech. (Nano Science and Technology)	Prof. Vaishali Singh	2	15

FACULTY PROFILE (ENGINEERING PHYSICS)

Dr. Avinash C Sharma

Area of Specialization:
Theoretical Particle Physics

Research Publications:
http://www.ipu.ac.in/usbas/mtechep/acs_publ.php

Dr. Shruti Aggarwal

Area of Specialization:
Solar Photovoltaics, Crystal Growth, Thermoluminescence
Research Publications:
http://www.ipu.ac.in/usbas/mtechep/sa_publ.php

Dr. Anu Venugopalan

Area of Specialization:
Quantum information, Confined quantum systems (Theory)
Research Publications:
http://www.ipu.ac.in/usbas/mtechep/av_publ.php

Dr. Rajesh Kumar

Area of Specialization:
Materials Science, Nanotechnology, Energy Storage Devices
Research Publications:
http://www.ipu.ac.in/usbas/mtechep/rk_publ.php

FACULTY PROFILE (ENGINEERING PHYSICS)

Dr. S Neeleshwar

Area of Specialization:
Nanomaterials,
Thermoelectric materials,
Magnetic Materials
Research Publications:
http://www.ipu.ac.in/usbas/mtechep/sn_publ.php

Dr. Kriti Batra

Area of Specialization:
Theoretical Atomic and Molecular Physics, Quantum Heterostructures
Research Publications:
http://www.ipu.ac.in/usbas/mtechep/kb_publ.php

Dr. Anjana Bagga

Area of Specialization:
Optical and Transport properties of semiconductor nanostructures, nanostructured thermoelectric materials, solar cells
Research Publications:
http://www.ipu.ac.in/usbas/mtechep/ab_publ.php

Mr. Mukesh Kumar

Area of Specialization:

Lasers and Photonics

Why M.Tech (Engineering Physics)

- This is the first ever course(Approved by AICTE) at post-graduate level in India.
- The programme is planned in such a manner so as to bridge the gap between Engineering and Science streams.
- It meets the demands of the technical manpower required in several new emerging areas.
- It is interdisciplinary and has courses from various fields of applied sciences and Computational Science. In Applied Sciences, some of the focus areas are Photovoltaics, Embedded systems, Computational Physics, Nanoscience and Technology, Nuclear Technology, Ion Beam Technology, Photonics.
- In Computational Sciences, courses on programming (C++, Java, Oracle etc.), networking, data base management systems, computer architecture, multimedia and visualization technology etc. are covered.

About M.Tech (Engineering Physics)

This course prepares students to work in Industries/Institutes in following fields :

- Solar Photovoltaics
- Embedded Systems
- Nanoscience and Technology
- Nuclear Technology
- Computational Simulations
- Visualization Technology
- Networking

M.Tech (EP) is the first ever course at post-graduate level in india

Highlights of the Programme

- The programme is approved by AICTE.
- Regular interactive sessions with eminent physicists and physicist turned entrepreneur/manager/administrator as part of the curriculum.
- Presentations cum Comprehensive Viva-Voce in each semester.
- Project work by actual participation in Industry/ national research laboratories like DAE, SSPL, LASTEK, NPL, IUAC, VECC, CDAC etc.
- Working in the ongoing research projects at USS.
- Visit to Industry/Research labs.
- Students attend the national and international level conferences organized by FICCI, ASSOCHAM, SESI, EI group and various universities/institutes/ organizations.

THRUST AREAS

- Solar Photovoltaics
- Energy
- Nano Science and Technology
- Nuclear Technology
- Embedded Systems
- Computational Physics
- IT based courses- Artificial Intelligence, Internet of Things, Quantum Computing etc.

OUR STUDENTS ARE PLACED AT:

ELIGIBILITY

CET Code: 150

CET Exam is mandatory for all Non-GATE Candidates.

B.E/B.Tech (Electronics/Computer Science/Electrical/Engineering Physics/IT/IC) or equivalent

OR

Post Graduation in Physics/Applied Physics/Electronics/Mathematics or equivalent with minimum 55% marks in aggregate in the qualifying degree. The applicant MUST have studied Physics at the undergraduate level.

GATE qualified candidates will be given first preference.

Non-GATE students will be selected based on merit list of CET rank.

FELLOWSHIPS

- GATE Fellowships
- Some Industrial Fellowships may be available as per Industrial requirement.

Note : For Economically Weaker Sections (EWS), University may provide financial assistance.

Interested students may visit International Research Institutes for their Minor and Major Projects. Probable Countries : Germany, Taiwan, USA etc.

Last Date to Apply- 31st July, 2020

HOW TO APPLY?

Admission brochure carrying all the details and the application form can be submitted online through the university website.

For latest update and details keep visiting university website.
(Please visit ipu.ac.in for latest updates and details).

Kindly refer Admission Brochure for more details
Last Date of Submission : 31st July, 2020

Application form link:
http://www.ipu.ac.in/usbas/mtechepmain.php

For more information, visit
http://www.ipu.ac.in/usbas/mtechep/index.php

CONTACT US

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For more updates and information keep visiting www.ipu.ac.in

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