

# GAUTAM BUDDHA UNIVERSITY

ESTABLISHED BY THE UTTAR PRADESH GAUTAM BUDDHA UNIVERSITY ACT 2002 UP ACT NO. 9 OF 2002  
APPROVED BY UGC UNDER SECTION 12-B & NAAC ACCREDITED

## Admissions Open

## Department of Applied Physics, USoVSAS

### Our Expertise

#### Nanotechnology

Design and engineering of methods/devices at molecular level that lead to compact and faster microprocessors with consumption of less energy. Smart and efficient products, efficient batteries and solar cells, targeted cure of many diseases like cancer are the few applications of this field. A discipline with all the ingredients to turn into the next industrial revolution.

#### Computational Physics

Many important recent advances in our understanding of the physical world have been driven by large-scale computational modeling and data analysis. For an example, the plasmonics deals with the interaction of coherent free electrons with radiation. It helps in confining light at subwavelength scale and useful for enhancing photochemistry, biosensing, energy harvesting etc.

#### Photonics

Photonics utilizes lasers, optics, imaging and more to impact every area of modern life, from communications and information processing to lighting, agriculture and medicine, manufacturing, transportation, aerospace and much more. Photonics is set to be the key technology for the 21st Century.

#### Astrophysics & Cosmology

Studying Astrophysics and Cosmology helps us to understand the phenomenon that governs the behavior of astronomical objects, origin, evolution, composition, and fate of the Universe as a whole.

#### Nonlinear Dynamics

This is one of the most important course having applications in the field of nonlinear vibrations (MEMS, lasers), celestial mechanics (including planetary rings and rotations of celestial bodies), biodynamics (including interaction of populations of fireflies, flight of insects, and human walking) and control (including satellite dynamics and manufacturing processes)

### Choice Based Credit System (CBCS) and National Education Policy (NEP) based Programme

Programme Name	Eligibility Criteria	No. of Seats
<b>B.Sc.(Hons) Physics</b>	10+2 with Physics, Chemistry and Mathematics	30 Seats [Duration and exit as per NEP 2020]
<b>M.Sc.</b> (Applied Physics)	Bachelor's degree with Physics (including B. Sc. (Hons.) in Electronics/ Instrumentation) as one of the subject	20 Seats
<b>Ph.D.</b> (Applied Physics)	Master's Degree in Physics / Applied Physics/ Electronics	09 Seats (Full Time)
<b>PGDRET</b> (P.G. Diploma in Renewable Energy Technologies) (Full Time)	Graduate in Science or Engineering from a recognized University/College	20 Seats 1 Year (2-Semester)

Hostel and Mess Facilities are available as per GBU norms

Link for admissions: <https://www.gbu.ac.in/admissions>

Contact Us:

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