



Jaypee University, Anoopshahr

(Established under the Govt. of Uttar Pradesh Act No. 8 of 2014)

Aligarh Road, Anoopshahr, Dist. Bulandshahr (UP) - 203390

www.jaypee.ac.in

Doctoral Programmes (Ph.D.)

The University is offering Ph.D. programmes in various **Engineering** (CE, CSE, ECE, IT and ME), **Sciences** (Physics, Chemistry and Mathematics) and **HSS** (Management) disciplines. The research scholars are required to carry out intensive research work under the supervision of a Guide/s on a specific topic. The main objective of the doctoral research work is to contribute toward the creation of knowledge in the chosen field of interest by way of new findings and observations. During this program, students get an opportunity to develop and demonstrate their analytical and innovation skills through independent thinking and creative ideation. All the research scholars are expected to present the progress of their research work towards the end of every semester, and regularly document and publish their findings in suitable research Journals and Conferences. Towards the completion of this research program, the consolidated results need to be documented in the form of a thesis and the same has to be submitted to the University for the award of the degree. As per the UGC guidelines, all the research scholars are also required to undergo advanced level course work as suggested by the members of Doctoral Research Committee.

Civil Engineering: Concrete Technology, Structural Engineering, Environmental Engineering, Geo-technical Engineering, Hydraulics & Water Resources Engineering, Wind Engineering, Transportation Engineering, Earthquake Engineering, and Soil-Structure Interaction.

Computer Science & Engineering : Network Communication, Distributed and Parallel Processing, Grid Computing, Image Processing, Pattern Recognition, Image Security, Software Engineering, Software Testing, Data Mining & Warehousing, Computational Intelligence.

Electronics & Communication Engineering : Digital Signal Processing, Multi-Dimensional and Multi-rate Signal Processing, Image Processing, Wavelet Analysis and Pattern Recognition, Integral Transforms, Wireless Communication, Mobile communication, Digital Communication, Multicarrier Communication Systems, VLSI Design, RF and Microwave, Device fabrication and circuit analysis.

Mechanical Engineering : Combustion, Gasification, Experimental and Computational Fluid Dynamics, Multiphase and Turbulent Flows, Mixing Studies of 2 & 3-Dimensional Jets, Heat Transfer and Thermal Engineering, New and Renewable Energy Sources, Refrigeration and Air Conditioning, IC Engine, Hydro-Turbo-Machinery, Welding Technology, CAD/CAM, Advanced Manufacturing Processes, Operation Research.

Chemistry : Bio Inorganic Chemistry.

Mathematics : Statistics , Self-Computing Techniques, Evolutionary Computational Methods, Optimization Techniques.

Physics : Spintronics Devices; Magnetic, Multiferric & Microwave Materials, Experimental Condensed Matter Physics, Solid State Ionics, Energy Storage Devices such as Batteries, Fuel Cells and Super Capacitors ; Atmospheric Physics.

Humanities & Social Sciences : HR and Financial Managements.