India Science Wire

New Delhi, Sept 23 (India Science Wire): More than sixteen lakh registrations have been made for the Joint Entrance Exam (JEE) Advanced for the 2020-2021 session. This year the Indian Institute of Technology (IIT) Delhi has something new to offer to the students. IIT Delhi has launched a new undergraduate programme, Bachelors of Technology (B.Tech) in Engineering and Computational Mechanics. The new programme will be run by the Department of Applied Mechanics from the academic session 2020-21.

There would be an extra choice of course for the students who will be opting IIT Delhi after qualifying JEE Advanced. The students taking this course will be able to analyse complex interdisciplinary phenomena relevant to problems in industry and cutting edge research through experimentation, analysis and computation.

“The graduates of this programme are likely to find the best technical jobs in core engineering and will also be very apt candidates for higher studies like Master’s and PhD in IIT Delhi as well as other leading national and international educational institutions,” said Prof Sanjeev Sanghi, Head of the Department, Applied Mechanics.

Prof Sanghi added, “Design, analysis and research jobs in sectors such as defence, aerospace, automotive, shipping, bio-mechanics and bio-medical devices, off-shore structures etc. will be open to students doing this programme, which has been designed based on consultation with industry.”

One of its type academic programme in engineering at the undergraduate level, B. Tech in Engineering and Computational Mechanics aims to provide depth in addressing fundamental engineering questions. The course would expose students to recent trends in computational techniques and experiments. It would also provide grounding in the fundamentals of engineering mechanics along with the tools to address areas such as Biomechanics, Nanomechanics, Constitutive Modeling at Multiple Length and Time Scales, Parallel Processing for Mechanics Problems, Machine Learning, Artificial Intelligence in Mechanics.

Under the programme, students will be exposed to basic fundamentals of all aspects of mechanics including classical aspects like theoretical and experimental mechanics and also the latest in computational techniques including Finite Element Method (FEM) and Computational Fluid Dynamics (CFD).

“The Department of Applied Mechanics, IIT Delhi has an excellent record of having some of the best teachers and many professors have won the excellence in teaching award started by the institute in 2012” said Prof Sanghi. (India Science Wire)

Keywords: new course, machine learning, artificial intelligence, B.Tech in Engineering and Computational Mechanics, IIT Delhi

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