New BTech course to be offered by NITK

Four-Year Course Will Comprise 160 Credits

Kevin.Mendonsa
@timesgroup.com

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Mangaluru: The National Institute of Technology (NITK) Surathkal will offer 'computational and data science,' as a new course, from this academic year. With this, the premier technical institution will offer a total of 11 BTech courses.

The course is designed by the department of mathematical and computational sciences. Last year, it added an UG programme in artificial intelligence, which is one of the courses in emerging technologies.

EXPANDING LEARNING: The course is designed by the department of mathematical and computational sciences of NITK Surathkal

COMPUTATIONAL & DATA SCIENCE

R Madhusudhan, HoD, said that the course will build a strong foundation, both theoretical and practical, needed for a deep understanding and application of data science and scientific computing, as well as mathematical and statistical modelling. Secondly, it will help produce competent professionals, catering to the needs of academia, research and development organisations, industries, and financial institutions, among others. Finally, it will provide opportunities for prospective students, to study in accordance with the principles outlined in the National Education Policy-2020. The four-year course will have a total of 160 credits, that includes foundation courses (38 credits); programme core (70); elective courses (30); major project (6) and mandatory learning courses (16). "There is a huge demand for data science professionals for research-related activities. This course will generate industry-ready professionals," said Madhusudhan. Career options include data scientist, analyst, architect, engineer, business intelligence developer applications, infrastructure architect, database designer and database administrator. Ravindranath, registrar, NITK Surathkal, said that the total intake for the course is 30 seats. The course is approved by the ministry of education and added to JEE.

Course outcomes

● To understand the role of mathematics in scientific computing, analysis of data, and data science.

● To obtain a strong foundation in mathematics, that is both relevant and contemporary.

● To apply such acquired knowledge, to solve real-world problems in computing, one must gain proficiency and efficiency in the analysis and application of data science.

● To provide opportunities for students to customise their studies, in line with NEP-2020.

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