Based Credit System (CBCS).

The College is implementing Choice 2031. The College is ACCREDITED BY NAAC WITH A++ GRADE. The College is Intellectually and academically developing for a period of six years with effect from 2014-15 and has extended the autonomous status for a period of ten years from 2021-2031. The College is ACCREDITED BY NAAC WITH A++ GRADE. The College is implementing Choice Based Credit System (CBCS).

About Vasavi College of Engineering

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Department Mission

The Department of Mathematics was established in the year 1981. It comprises of 9 staff members including one Professor, 3 Associate Professors and 5 Assistant Professors. Six among them are doctorates and three are in pipeline. Department offers branch oriented Mathematics courses to Undergraduate students, one Mathematics course to Post graduate students and 1 Bridge Course to the Undergraduate students from the diploma background. In addition to the above courses, open electives in Mathematics are also offered. Coming academic year Department is planning to offer four stream-based open electives to Undergraduate students.

About FDP

The FDP "Recent Advances in Applied Mathematics-2024" with distinguished speakers on board, is an earnest attempt to offer a forum for discussing the most recent developments, methods, and creative ideas in a variety of Mathematical subjects and applications. The goal of the FDP is to investigate the recent advances of mathematics in the areas of Data Science, Machine learning, Optimization techniques, Number theory and Cryptography, Mathematical Modelling etc., and their importance in solving real world problems across various domains. It is anticipated that the programme’s results will contribute to a positive development of the intellectual and academic environment.

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# DEPARTMENT OF MATHEMATICS

5-Day Faculty Development Programme on

“Recent Advances in Applied Mathematics” (RAAM-2024)

24th June 2024 – 28th June, 2024 (Virtual Mode)

## PROGRAMME SCHEDULE

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<tr>
<th>Date (Day)</th>
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| **DAY-1** 24-06-2024 (Monday) | **INAUGURAL SESSION**  
Keynote Address: Non-Linear Stability of Flows  
Speaker: Dr. Lakshmi Narayana P A, Professor, Department of Mathematics, IIT, Hyderabad | Topic: Mathematical Modelling Vs Machine Learning - A Process of Data Intelligence  
Speaker: Dr. P Tirupathi Rao, Professor Department of Statistics, Ramanujan School of Mathematical Sciences, Pondicherry University |
| **DAY-2** 25-06-2024 (Tuesday)   | Topic: Optimization Techniques- Gradient Descent methods  
Speaker: Dr. Geetanjali Panda, Professor Department of Mathematics, IIT, Kharagpur | Topic: Non-Linear Dynamical Systems  
Speaker: Dr. Y. Rameshwar, Associate Professor Department of Mathematics, University College of Engineering, Osmania University, Hyderabad |
| **DAY-3** 26-06-2024 (Wednesday) | Topic: Fourier Transforms and its Applications  
Speaker: Dr. Cokilavany Diraviam, Professor Department of Mathematics, Anna University, Chennai | Topic: Number Theory and its Applications to Cryptography and Security  
Speaker: Dr. Srinathan Kannan, Assistant Professor Department of Mathematics, IIIT, Hyderabad |
| **DAY-4** 27-06-2024 (Thursday)  | Topic: Application of Logistic Regression Models in Classification  
Speaker: Dr. Sanjeev V Sabnis, Professor Department of Mathematics, IIT, Bombay | Topic: Linear Algebra and its Applications  
Speaker: Dr. Bhaba Kumar Sarma, Professor Department of Mathematics, IIT, Guwahati |
| **DAY-5** 28-06-2024 (Friday)    | Topic: Mathematical Modeling - Some Technique to Analyze Mathematical Biological Models  
Speaker: Dr. M. Pitchaimani, Associate Professor Department of Mathematics, Ramanujan Institute for Advanced Study in Mathematics, University of Madras | Topic: Partial Differential Equations and it’s Applications  
Speaker: Dr. M A Srinivas, Professor of Emeritus Department of Mathematics, JNTU, Hyderabad |

**VALEDICTORY SESSION**