About Vasavi College of Engineering

Founded in 1981 by Vasavi Academy of Education, Vasavi College of Engineering represents a rich tradition of excellence in technology-based education. A premier-league institution among the affiliates of Osmania University, Vasavi College of Engineering owes its vision to Sri Pendekanti Venkata Subbaiah, a veteran statesman of Independent India. The college has been granted autonomy by the University Grants Commission, New Delhi and Osmania University, Hyderabad for all the programs for a period of six years with effect from 2014-15 and has been extended the autonomous status for a period of ten years from 2021-2022 to 2030-2031.The College is ACCREDITED BY NAAC WITH 'A++' GRADE. The College is implementing Choice Based Credit System (CBCS).

About the Department

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.

Department Mission

To impart to students an in-depth knowledge of mathematics and its applications in various fields of engineering so as to enable them to meet the challenges of the world with courage, confidence, conviction and competence

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.

VASAVI COLLEGE OF ENGINEERING
(Autonomous)
Accredited by NAAC with A++ Grade
(Sponsored by VASAVI ACADEMY OF EDUCATION)
(Affiliated to Osmania University, Hyderabad, Approved by A.I.C.T.E., New Delhi)
9-5-81, Ibrahimbagh, HYDERABAD – 500 031, India www.vce.ac.in

5-Day Faculty Development Programme on
"Recent Advances in Applied Mathematics" (RAAM-2024)

Organized by:
Department of Mathematics
24th June, 2024 – 28th June, 2024 (Virtual Mode)

Registration Fee Particulars:
- **Faculty- Rs.500/-**   • **Research Scholars- Rs.300/-**

Last date of Registration: 23rd June,2024.

Payment link: https://pay.webfront.in/webfront/#/merchantinfo/vasavi-college-of-engineering/6754

How to apply: Interested candidates can apply online by clicking below link:
https://forms.gle/Msr1cKNeYhYddjVc6

Participants are required to fill the Google form by using the above link and payment details to be uploaded on or before 23rd June,2024.

WHO CAN PARTICIPATE?
This programme is specially designed for Faculty members from Academic Institutions / Universities/ Government and Private Colleges. In addition, Researcher Scholars from Academia and Industry are also welcome to participate.

CERTIFICATE OF PARTICIPATION:
The E-Certificate will be emailed to the participants on successful completion of the programme.

IMPORTANT INSTRUCTIONS:
- The link for joining FDP will be sent on your registered email id and FDP what's app group before the commencement of each session.
- 80% of Attendance and filling up of every session's Feedback form is mandatory to receive E certificate.

Platform: Microsoft Teams (Online mode)

ORGANIZING COMMITTEE

Chief Patron: Sri. P. Ramamohan Rao
President, Vasavi Academy of Education
Patron: Sri M. Krishna Murthy
Secretary,Vasavi Academy of Education
Chariman: Dr.S.V.Ramana, Principal
Convenor: Dr.T.Sudhakar Rao, HoD, Mathematics
Co-Convenor: Dr. P. Hemagiri Rao, Professor in Mathematics

Coordinators:

Dr.N.Vasudha, Assoc. Prof.	Mr. R.Hari Kishore, Asst. Prof.	Dr.M.Venkateshwar Rao, Asst. Prof.
#9666622074	#7674929099	# 9959924151

*Any Further queries, please contact any of the above Coordinators or
· visit: www.vce.ac.in or **email to :** vasavi.ram2024@gmail.com
Members:
1.Dr. T.Ramprasad, Assoc. Prof.
2.Dr. Ch.N.Anuradha, Asst. Prof.
3.Mr.Y. Bhanuprakash, Asst.Prof.
4.Mr.M.Tirupathi Rao, Asst. Prof.

HONOURABLE SPEAKERS

Dr. Lakshmi Narayana P A, Professor, Department of Mathematics, IIT, Hyderabad
Topic: Non-Linear Stability of Flows

Dr. P Tirupathi Rao, Professor, Department of Statistics, Pondicherry University
Topic: Mathematical Modelling Vs Machine Learning - A Process of Data Intelligence

Dr. Geetanjali Panda, Professor, Department of Mathematics, IIT, Kharagpur
Topic: Optimization Techniques-Gradient Descent methods

Dr.Y.Rameshwar, Assoc.Professor, Department of Mathematics, University College of Engineering, Osmania University,Hyderabad.
Topic: Non-Linear Dynamical Systems

Dr. Cokilavany Diraviam, Professor, Department of Mathematics, Anna University, Chennai
Topic: Fourier Transforms and its Applications.

Dr. Srinathan Kannan, Asst. Prof, Department of Mathematics, IIIT, Hyderabad
Topic: Number Theory and its Applications to Cryptography and Security

Dr. Sanjeev V Sabnis, Professor, Department of Mathematics, IIT, Bombay.
Topic: Application of Logistic Regression Models in Classification

Dr. Bhaba Kumar Sarma, Professor, Department of Mathematics, IIT, Guwahati
Topic: Linear Algebra and its Applications

Dr. M. Pitchaimani, Assoc. Prof. Department of Mathematics, Ramanujan Institute for Advanced Study in Mathematics, University of Madras
Topic: Mathematical Modeling - Some Technique to Analyze Mathematical Biological Models

Dr. M A Srinivas Professor of Emeritus, Department of Mathematics, JNTU, Hyderabad
Topic: Partial Differential Equations & it's Applications

VASAVI COLLEGE OF ENGINEERING

(Autonomous)

9-5-81, IBRAHIMBAGH, HYDERABAD – 500 031, TELANGANA

ACCREDITED BY NAAC WITH 'A++' GRADE

(Sponsored by VASAVI ACADEMY OF EDUCATION)

(Affiliated to Osmania University, Hyderabad, Approved by A.I.C.T.E., New Delhi) **www.vce.ac.in**

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

Date (Day)	FORENOON			AFTERNOON
	10.00AM	10.30 AM To 12.30 PM	L U N C H B R E A K	2.00 PM To 4.00 PM
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