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 "Essential Mathematical Tools for Machine Learning"(EMTML-2025)

Organized by:

Department of Mathematics

05th January, 2026 – 09th January, 2026 (Virtual Mode)

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 with Autonomy by the University Grants Commission (UGC), New Delhi and Osmania University, Hyderabad for all the programmes for a period of six years with effect from the Academic Year 2014- 15, and has been extended the autonomous status for a period of ten years from 2021-22 to 2030-2031. The College is Accredited by NAAC with A++ Grade. The College is implementing Choice Based CreditSystem (CBCS).

About the Department

The Department of Mathematics was established in the year 1981. It comprises of 11 faculty members including 2 Professors,4 Associate Professors and 5 Assistant Professors. Ten among them are doctorates and one is in pipeline. Department offers branch oriented Mathematics courses to Undergraduate students, one mathematics course to Post graduate students and 1 Bridge Course to undergraduate students from the diploma background. In addition, general open electives and stream-based open electives in Mathematics are also offered 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 the FDP

The Faculty Development Program (FDP) on "Essential Mathematical Tools for Machine Learning" aims to strengthen the foundational mathematical skills of engineering and science faculty members in the rapidly expanding domain of Machine Learning (ML). As ML continues to transform modern technology, a deep understanding of the underlying mathematical principles has become indispensable for effective teaching, research, and curriculum development. Through expert-led sessions, participants will explore how these mathematical tools connect directly to ML models such as regression, classification, clustering, neural networks, and dimensionality reduction.

Designed for faculty from Mathematics, Computer Science, and allied engineering disciplines, the program blends theoretical foundations with practical demonstrations to bridge the gap between mathematical theory and real-world machine learning applications. Participants will gain enhanced pedagogical insights, improved conceptual clarity, and confidence to integrate ML-related mathematical content into their teaching and research.

Overall, this FDP serves as a platform for academic enrichment, interdisciplinary collaboration, and the advancement of mathematical education aligned with emerging technologies.

Registration Fee Particulars:

Faculty, Research Scholars & Students	**Rs.200/-**
Last date of Registration	**4th January, 2026.**

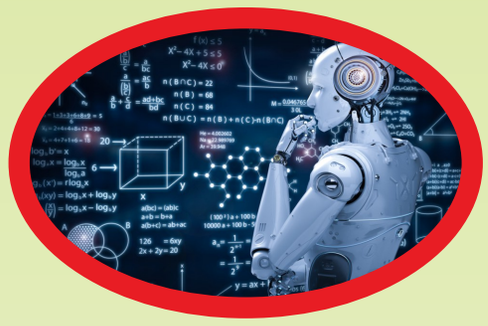
Registration details:

How to apply

Interested candidates can apply online by clicking the below link:
https://forms.gle/6Zc94gy5FNj5XsZA9
Participants are required to fill the Google form by using the above link and payment screenshot to be uploaded on or before 4th January, 2026..

Payment Mode:

Participants can pay the prescribed registration fee by scanning the below QR Code or through the payment link:



Payment link: https://payments.billdesk.com/bdcollect/bd/vasavicollegeofengineering/18849

WHO CAN PARTICIPATE?

This programme is specially designed for Faculty members from Academic Institutions / Universities/ Government and Private Colleges. In addition, Research Scholars & Students 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 program.

IMPORTANT INSTRUCTIONS:

- The link for joining FDP for all 5 days will be shared into FDP what's app group
- 80% of Attendance is mandatory to receive E-certificate.
- For more details, please visit: www.vce.ac.in

Platform: Microsoft Teams (Online mode)

ORGANIZING COMMITTEE

Chief Patron: Sri. P. Ramamohan Rao, *President, Vasavi Academy of Education*
Patron: Sri V.M.Parthasarathi, *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, Mathematics*

Coordinators:

Dr.N.Vasudha, Assoc. Prof.	**Dr. R.Hari Kishore, Asst. Prof.**	**Dr.M.Venkateshwar Rao, Asst. Prof.**
#9666622074	**#7674929099 / 9247553181**	**# 9959924151**

*Any Further queries, please contact any of the above coordinators or email to : emtml_fdp_2025@vce.ac.in

Members:

1. Dr.N.Phani Kumar, Prof.
2. Dr.T.Ramprasad, Assoc. Prof.
3. Dr. B.S.N.Murthy, Assoc. Prof.
4. Dr. Ch.N.Anuradha, Asst. Prof.
5. Mr.Y.Bhanuprakash, Asst. Prof.
6. Dr. M. Chaitanya, Asst. Prof.

KEY SPEAKERS

Padmanabhan Seshaiyer
Mathematical Sciences Department
George Mason University, Virginia, USA
Topic: From Theory to Algorithms: Essential Mathematics for Machine Learning and Neural Computing"

Dr. Satya Prakash Singh
Department of Mathematics and Statistics,
IIT, Kanpur
Topic: Logistic Regression

Dr. Kriti Kumari
Department of CSE
IIIT-Ranchi
Topic: Basics of Probability in Machine Learning and working of Naive Bayes Classifier

Dr. Achintya Roy
Department of Mathematics
NIT, Warangal
Topic : Statistical Foundations for Machine Learning Using Python - I

Dr. Achintya Roy
Department of Mathematics
NIT, Warangal
Topic : Statistical Foundations for Machine Learning Using Python-II

Dr. T S L Radhika
Department of Mathematics
BITS, Pilani (Hyderabad Campus)
Topic: Linear Algebra for Machine Learning

Mr. Sitaram Dantu (Industry Expert)
AI Consultant
SparkAI Solutions
Topic: Application of Vector Calculus, Linear Algebra in Statistical Machine Learning

Dr. Bedartha Goswami
Dept. of Mathematics
IISER-Pune
Topic: Introduction to Deep Learning

Dr. Hayath Thameem Basha
Ulsan National Institute of Science
and Technology, Korea
Topic: Machine Learning Analysis on CFD with Python

Dr. M A Srinivas
Professor of Emeritus
Dept. of Mathematics
JNTU, Hyderabad
Topic: Mathematical science approaches to the emerging technologies