



Date

ONLINE MODE

Time: 1st session: 11am - 12:30pm

Date: 22th to 26st September 2025

2nd session: 2:30pm - 4:00pm



Expert:

Dr. M A Jayaram

Professor, RASTA, Bengaluru.

(Author of the Book: **Artificial Intelligence & Applications in Core Engineering**, PHI Learning Pvt Ltd, New Delhi (In press))

Participants: Civil Engineering faculty members, PG, UG, Diploma Students, Research scholars & Professionals.

Registration Link:

<https://forms.gle/yzrpWQ95j9uoDAi79>



Registration Fee: Rs.1,500/- Registration Deadline: 19/09/2025

Account Details:

A/c Name: **RASTA Centre for Road Technology**

A/c No: **50200028930560**

Branch: **Peenya I Stage, HDFC Bank**

IFSC: **HDFC0001232**

Objectives:

- To introduce clustering, classification, and dimensionality reduction methods relevant to civil engineering.
- To provide algorithmic exposure to widely used algorithms with practical demonstrations.
- To showcase real-world applications of pattern recognition in civil engineering problems.
- To encourage research, innovation, and interdisciplinary use of AI tools in engineering.

Topics: Clustering: K-means, K-Medoids, DBSCAN, Fuzzy C-Means, real world reported applications. Classification: SVM, Decision Tree, Logistics regression, t-SNE, K-Nearest Neighbours, Real world applications. Dimensionality Reduction: PCA, Projection Pursuit, MDS, applications in civil engineering.

Co-ordinators:

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