

## JAIN COLLEGE OF ENGINEERING(JCE), BELAGAVI

Approved by AICTE New Delhi and Affiliated to VTU Belagavi, Recognized by Govt. of Karnataka, Accredited by NBA (Dept. of CV, CSE, ECE and EEE)



### ONE WEEK FACULTY DEVELOPMENT PROGRAM (FDP) ON

**"Emerging Trends in AI for Intelligent Waste  
Management in Smart Cities"**

**15<sup>th</sup>– 20<sup>th</sup> SEPTEMBER-2025**

IN COLLABORATION WITH

**AICTE Training and Learning (ATAL)**

&

**DEPARTMENT OF CIVIL ENGINEERING  
(NBA Accredited)**

**JAIN COLLEGE OF ENGINEERING (JCE), BELAGAVI**



**ORGANIZED BY:**

**DEPARTMENT OF CIVIL ENGINEERING,  
JAIN COLLEGE OF ENGINEERING (JCE), BELAGAVI**

(T.S. Nagar, Hunchanhatti Road Machhe,  
Belagavi, Karnataka – 590014)

### About JCE, Belagavi

Jain College of Engineering (JCE), Belagavi was started in the year 2010 under the umbrella of Jain Group of Institutions (JGI) headquartered in Bangalore with **Six** UG Engineering Programs (CV, EEE, ECE, CSE, CSE (AI&ML) and ME) and three PG Programs (MBA, MCA & M.Tech (CCT))

All the courses are affiliated to Visvesvaraya Technological University, Belagavi and our Institute is approved by AICTE, New-Delhi and Accredited by NBA (CV, EEE, ECE, CSE Branches).

Our students have been performing consistently in their academics with about 65% of them scoring a distinction in all their semesters till date. A few students have brought laurels to our institute by being nominated as "University Blues" in various sports fields.

### Vision and Mission of JCE

#### • Vision:

To be a university as a resource of solutions to diverse challenges of society by nurturing innovation, research & entrepreneurship through value based education

#### • Mission:

- ✓ To provide a work culture that facilitates effective teaching-learning process and lifelong learning skills
- ✓ To promote innovation, collaboration and leadership through best practices
- ✓ To foster industry-institute interaction resulting in entrepreneurship skills and employment opportunities

#### • Core Values

- ✓ Accountability
- ✓ Continuous learning
- ✓ Competency
- ✓ Team Work
- ✓ Holistic Development
- ✓ Societal Responsibility

### About Civil Engineering Department

The Department of Civil Engineering was established in the year 2010. The department believes in high quality teaching at both UG and PG levels. **The department is accredited by NBA**

The department has highly qualified & experienced faculties with a blend of experience in teaching & industry. Staff members focus on outcome based education, which helps the students to achieve the intended goal and make them cater to take up the challenges as per the Industry needs. The UG student of our department has secured **VTU 3<sup>rd</sup> and 4<sup>th</sup> rank** in UG program in 2020-21 and 2023-24 respectively.

Our course M. Tech in Construction Technology aims at making a Civil Engineer well equipped with tools of construction management and technology. The PG students have secured VTU ranks continuously from last 6 years including **Gold Medals**.

### About FDP

This Faculty Development Programme is designed to explore how Artificial Intelligence (AI) is revolutionizing waste management in the context of Smart Cities 2.0 — the next generation of urban development that goes beyond basic digital transformation to embrace intelligent, sustainable, and citizen-centric solutions.

This FDP focuses on how AI can be leveraged to build smarter, cleaner, and more sustainable cities by optimizing waste collection routes, enabling smart segregation, predicting waste generation patterns, and integrating intelligent monitoring systems. Participants will explore real-world case studies, hands-on tools, and the latest research trends in AI-powered waste solutions.

### Course Objectives

1. To introduce the role of Artificial Intelligence in modern waste management systems within smart cities.
2. To familiarize participants with AI tools and techniques used for waste detection, segregation, collection, and optimization.
3. To promote research and innovation in sustainable waste management using AI and IoT technologies.
4. To enable faculty members to integrate AI-based waste management topics into curriculum and academic projects.



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### REGISTRATION

Open to all faculties, Research

Scholars & Industry persons

Last Date for Registration:

**07-09-2025**

Date for Intimation:

**11-09-2025**

**Link for Registration:**

**<https://atalacademy.aicte.gov.in/>**

### MODE

Contact Mode (Offline)

### TIME

Morning Session: 9am-1pm

Afternoon Session: 2pm-5pm

### CERTIFICATES

Certificated will be provided to the participants who will attend all the sessions and clear the MCQ exam at the end of FDP

### Coordinators

**Department of Civil Engineering, JCE Belagavi**

**Dr. Sanjeev Sangami** Professor & HOD (Program Co-ordinator)

[sanjeevsangami@jainbgm.in](mailto:sanjeevsangami@jainbgm.in) – M: 9945754311

**Prof. Shashank U. Vanakudari** Assistant Professor

Program Co-ordinator

[shashankuvjce@jainbgm.in](mailto:shashankuvjce@jainbgm.in) – M: 8197476858

### Organizing Committee, JCE Belagavi

**Dr. Rajashekhargouda Patil** Dean Academics

**Dr. Ratan Patil** Dean Research and Development

**Dr. Uttam Patil** HOD, Dept. of CSE

**Prof. Vinaykumar. R. Bagali** HOD, Dept. of E&C

**Dr. Venkatratnam Chitturi** HOD, Dept. of E&EE

**Dr. B. V. Hubballi** HOD, Dept. of ME

**Dr. S. RohitRaj** HOD, Dept. of MBA

**Dr. Praveen Banasode** HOD, Dept. of MCA

**Dr. Shivkumar M. A** HOD, Dept. of Physics

**Dr. B. K. Manuprasad** HOD, Dept. of Chemistry

**Dr. Prashant Patil** HOD, Dept. of Mathematics

### Resource Persons

**Dr. Suresh Babu Pasupuleti**

Joined Director, Scientist D, Ministry of Environment and Forest (MOEF) Government of India.

**Dr. S. Shrihari** Professor-HAG, NITK Surathkal

**Dr. Basavaraju Manu** Professor & HOD, Civil Engineering Department, NITK Surathkal

**Dr. S. Mathava Kumar** Associate Professor IIT, Madras

**Dr. Venkatesh** Scientist G, NIH Belagavi

**Dr. Manjappa Sarathy** Director, R&D Sahyadri College of Engineering Mangaluru

**Dr. Ramesh Nayaka** Assistant Professor, IIT Dharwad

**Dr. Vivek Ganiga** Deputy Environmental Officer, Karnataka state Pollution control Board (KSPCB), Vijayapura

**Mr. Nadeem Sanadi** Assistant Engineer Smart City City Belagavi

**Dr. Sanjeev Sangami** Professor & HOD Jain College of Engineering, Belagavi.

### Patrons

**Dr. Chenraj Roychand** President, JGI, Bangalore  
**Shri. Radheshyam Heda** COO, JGI North Karnataka

### Chairman

**Dr. J. Shivakumar**  
Principal and Director,  
JCE, Belagavi

### Advisory Committee

**Smt. Syeda Afreen Banu Bellary**

Managing Director Belagavi Smart City Limited.

**Dr. S. Shrihari** Professor,  
Civil Engineering Department, NITK Surathkal

**Dr. B.B. Das** Associate Professor,  
Civil Engineering Department, NITK Surathkal

**Dr. Basavaraju Manu** Associate Professor,  
Civil Engineering Department, NITK Surathkal

**Dr. Raviraj H.M** Assistant Professor,  
Civil Engineering Department, NITK Surathkal

**Dr. Suman Saha** Assistant Professor,  
Civil Engineering Department, NIT Durgapur

**Dr. Prashant J.** Assistant Professor,  
Civil Engineering Department, NIT Silchar

**Dr. Parmeshwar Hiremath** Asst. Professor,  
Civil Engineering Department, NIT Srinagar

### Program Committee

**Department of Civil Engineering**

**Dr. Mithun B.M.** Professor

**Prof. Ravi U. Angadi** Assistant Professor

**Prof. Naresh V Patil** Assistant Professor

**Prof. Amey A. Kelkar** Assistant Professor

**Prof. Vidyasagar V. Moogi** Assistant Professor

**Dr. Nityanand Kudachimath** Associate Professor

**Prof. Varsha Gokak** Assistant Professor

**Prof. Darshan A. Narasgoud** Assistant Professor

**Prof. Aravind Kolaki** Assistant Professor

**Prof. Siddharth Patil** Assistant Professor

**Prof. Pooja Gadkari** Assistant Professor

**Prof. Apurva Angadi** Assistant Professor