

## PATRONS

### **Sri. D. Vasudeva Kamath**

President, Canara High School Association  
Mangaluru.

### **Sri. K. Suresh Kamath**

Vice-President, Canara High School Association  
Mangaluru.

### **Sri. M. Ranganath Bhat**

Hon. Secretary Canara High School, Association  
Mangaluru.

## COORDINATOR

### **Dr. Sujatha M**

Associate Professor

Phone: +91 8088586029, +91 8088908463

Email: [sujatham@canaraengineering.in](mailto:sujatham@canaraengineering.in)

## CO-COORDINATOR

### **Dr. Demian Antony D'Mello**

Professor

Phone: +91 9448216791

Email: [demian@canaraengineering.in](mailto:demian@canaraengineering.in)

## RESOURCE PERSONS

**Dr. Jaidhar C D**, Professor, NITK, Surathkal

**Dr. S. Sridhara**, Professor of Agronomy, UAHS, Shimoga

**Dr. Sumil C. K.**, Assistant Professor, IIIT Dharwad

**Dr. Chaminda Hewage**, Associate Dean Research (Interim),  
Cardiff School of Technologies, UK

**Dr. Vibhushinie Bentotahewa**, Programme director, Cardiff  
School of Technologies, UK

**Dr. Gururaj H L**, Associate Professor, Manipal Institute of  
Technology, Bengaluru

**Dr. Mallikarjuna L**, Scientist (Soil Science) DKVK, Mangaluru

**Dr. Rashmi R**, Scientist (Horticulture), DKVK, Mangaluru

**Mr. Harish Neermarga**, MD, AccoladeTech Solutions, Mangaluru

**Mr. Thirupathi K**, Society for Electronic Transactions and Security,  
Thamilmadu

**Mr. Gopalakrishna Bhat Kakunje**, CEO, Kakunje Software Pvt. Ltd.

## ABOUT THE INSTITUTION

Canara Engineering College (CEC) is a premier autonomous engineering institute of Mangaluru region. CEC is established in the year 2001, by Canara Group of Institutions (Canara High School Association) founded by the late Ammembal Subba Rao Pai. The college is affiliated to VTU, Belgavi, recognized by Government of Karnataka and approved by AICTE, New Delhi. Canara Engineering College is run by Canara High School Association (CHSA), an association based in Mangaluru contributing towards Konkani linguistic minority education. The group was founded by the late Ammembal Subba Rao Pai (also founder of Canara Bank) in 1891. Ammembal Subbarao Pai was a social reformer and a philanthropist who aimed at imparting modern education blended with ancient cultural values to the youth of Dakshina Kannada. With this in mind he started the CHSA with its primary project being the Canara High School, which was established in 1891. The group which is now primarily funded by alumni, also runs several other educational institutions in and around Mangaluru.

## ABOUT THE DEPARTMENT

The Artificial Intelligence and Machine Learning department focuses on all-round development encourages a vibrant interest in academic as well as in extra curricular activities. The Department have fully equipped laboratories and well qualified & experienced staff. The Department regularly arranges seminars, workshops from Industry Experts for students as well as staff and also organizes industry visits for students. The Department offers add-on courses to cope up with the latest trends in technology.

## ABOUT THE FDP

The objectives are to highlight the importance of smart agriculture, demonstrate ML and IoT applications, address cybersecurity and research challenges, promote interdisciplinary research, and provide hands-on training.

### **Program Highlights:**

- **No Registration Fee**
- **Eligibility:** Faculty, Research Scholars, Industry Professionals

### **Link for Registration Procedure and NOC:**

<https://tinyurl.com/CEC-FDP-ATAL-JAN2026>



AICTE Training & Learning (ATAL) Academy  
Sponsored

## Online Six Days Faculty Development Programme

on

**Innovations in Smart Agriculture:  
Leveraging Machine Learning, IoT,  
and Security Frameworks**

5<sup>th</sup> – 10<sup>th</sup> January 2026

Organized by

Department of

**Artificial Intelligence and Machine Learning**



**CANARA ENGINEERING COLLEGE**

An Autonomous Institution, Approved by AICTE, Accredited by NAAC with A Grade  
SUDHINDRA NAGARA, BENJANAPADAVU, BANTWAL, MANGALURU - 574219



## TOPICS COVERED

- Discussion on importance of Smart Agriculture practices and the challenges involved in current practice of farming.
- Use of Machine Learning, Internet of Things in Agricultural-based research works.
- Demonstration on implementation of Machine Learning models to detect plant disease or soil fertility.
- Machine Learning for security assessment and mitigation.

Day 1 (05-01-2026)	Day 2 (06-01-2026)	Day 3 (07-01-2026)	Day 4 (08-01-2026)	Day 5 (09-01-2026)	Day 6 (10-01-2026)
6:00 PM to 6:30 PM	6:00 PM to 7:30 PM	6:00 PM to 7:30 PM	6:00 PM to 7:30 PM	6:00 PM to 7:30 PM	2:00 PM to 3:30 PM
<b>Inaugural Session</b>	<b>Session 3</b>	<b>Session 5</b>	<b>Session 7</b>	<b>Session 9</b>	<b>Session 11</b>
	Topic: Machine Learning in Plant Disease Detection Name of the Expert: Dr. Sunil C. K. Designation & Organization: Assistant Professor, IIIT Dharwad Years of Exp: 13	Topic: Discussion on Research Article: 1D CNN-based soil fertility classification and fertilizer prescription Name of the Expert: Dr. Sujatha M Designation & Organization: Associate Professor, Canara Engineering College, Mangaluru Years of Exp: 12	Topic: Machine Learning for Cyber Security Assessment and Mitigation Name of the Expert: Dr. Chaminda Hewage Designation & Organization: Associate Dean Research Cardiff School of Technologies Years of Exp: 18	Topic: IoT and Cyber Security for Smart Agriculture: Innovations and issues Name of the Expert: Dr. Gururaj H L Designation & Organization: Associate Professor, Manipal Institute of Technology, Bengaluru Years of Exp: 14	Topic: Recent innovations in Smart Agriculture Name of the Expert: Dr. Rashmi R Designation & Organization: Scientist (Horticulture), Dakshina Kannada Krishi Vignana Kendra, Mangaluru Years of Exp: 10
6:30 PM to 8:00 PM	7:30 PM to 9:00 PM	7:30 PM to 9:00 PM	7:30 PM to 9:00 PM	7:30 PM to 9:00 PM	3:30 PM to 5:00 PM
<b>Session 1</b>	<b>Session 4</b>	<b>Session 6</b>	<b>Session 8</b>	<b>Session 10</b>	<b>Session 12</b>
Topic: Machine learning for Smart Agriculture – Recent Trends and Challenges Name of the Expert: Dr. Jaidhar C D Designation & Organization: Professor, NITK Surathkal, Mangaluru Years of Exp: 25	Topic: Discussion on Research Article based on Plant disease detection Name of the Expert: Dr. Sunil C. K. Designation & Organization: Assistant Professor, IIIT Dharwad Years of Exp: 13	Topic: Security challenges involved in using IoT Name of the Expert: Dr. Vibhushinie Bentotahewa Designation & Organization: Programme director and Lecturer, Cardiff School of Technologies, Cardiff, U.K. Years of Exp: 5	Topic: IoT in Smart Agriculture Name of the Expert: Mr. Gopalakrishna Bhat Kakunje Designation & Organization: CEO & MD, Kakunje Software Private Limited, Mangaluru Years of Exp: 15	Topic: IoT and Cyber Security for Smart Agriculture Name of the Expert: Mr. Thirupathi K Designation & Organization: Scientist, Society for Electronic Transactions and Security (SETS), Tamilnadu Years of Exp: 12	Topic: Recent innovations in Soil Science Name of the Expert: Dr. Mallikarjuna L Designation & Organization: Scientist (Soil Science), Dakshina Kannada Krishi Vignana Kendra, Mangaluru Years of Exp: 12
8:00 PM to 9:30 PM					5:00 PM to 7:30 PM
<b>Session 2</b>					<b>Session 13</b>
Topic: Machine Learning and use of Satellite Wavebands in Smart Agriculture Name of the Expert: Dr. S. Sridhara Designation & Organization: Professor of Agronomy, UAHS, Shimoga, Years of Exp: 25					Topic: Innovations in Smart Agriculture- Industrial Perspective Name of the Expert: Mr. Harish Neermarga Designation & Organization: Founder and CEO, Accolade Tech Solutions, Mangaluru Years of Exp: 12
					5:00 PM to 7:30 PM <b>Online test &amp; feedback</b>
					7:30 PM to 8:00 PM <b>Valedictory Session</b>