



**KSSEM**  
K S SCHOOL OF ENGINEERING AND MANAGEMENT

Kammavari Sangham (R) 1952

**K. S. GROUP OF INSTITUTIONS**

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[www.kssem.edu.in](http://www.kssem.edu.in)

**DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND DATA SCIENCE**

## **IEEE COMPUTER SOCIETY EVENT**

### **A Workshop on**

### **“AI Foundation Course”**

**Event name:** “AI Foundation Course”

**Date of event:** 23<sup>rd</sup> -25<sup>th</sup> October,2024

**Venue:** AD Seminar Hall B-Block, CPL LAB A-Block, KSSEM

**Number of participants:** 120

**Targeted Audience:** IEEE and Non-IEEE Students.

The department of Artificial Intelligence and Data Science Engineering, KSSEM, in association with IEEE KSSEM Student branch organized a Workshop on, ‘AI Foundation Course’, 23<sup>rd</sup>- 25<sup>th</sup> October,2024 from 9AM-12PM and 1PM-4PM.

#### **Discussion:**

#### **1. AI Foundation Course**

##### **1.1 Introduction**

#### **Day 1: Introduction to Artificial Intelligence**

The workshop began with an overview of Artificial Intelligence, covering its subfields like Symbolic AI, Machine Learning, Deep Learning, and Cognitive Computing. Key AI features—Machine Learning, NLP, Computer Vision, Robotics, and Expert Systems—were highlighted as central to modern AI applications. Participants discussed AI’s transformative impact on sectors such as healthcare and finance. After a foundational course on AI concepts, including data types and ethical considerations, an assessment evaluated participants’ comprehension of these foundational ideas.

#### **Day 2: Machine Learning and Cloud-Based Projects**

The second day introduced Machine Learning (ML), focusing on supervised and reinforcement learning. Participants explored Large Language Models (LLMs) and prompt learning to guide models effectively. The session included a project using IBM Cloud and Watson Studio, where participants built a crop recommendation model. Through data preparation, iterative model refinement, and cloud-based deployment, they experienced the benefits of cloud computing for large datasets and scalable ML projects.

#### **Day 3: Chatbot Development with IBM Watson Assistant**

On the final day, students learned to design and deploy chatbots using IBM Watson Assistant. The interactive format guided participants in creating chatbots capable of understanding queries, answering



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FAQs, and performing basic tasks. The workshop covered real-world chatbot applications in customer service and healthcare, alongside practical exercises for defining intents, creating entities, and designing conversational flows. Immediate testing allowed for iterative improvements, and the workshop accommodated varying technical skill levels, providing a comprehensive learning experience.

## Conclusion:

The introductory AI course and workshops have provided students with a comprehensive foundation in Artificial Intelligence, from key concepts to hands-on applications. The initial session covered essential AI principles, including machine learning, natural language processing, and computer vision, while also addressing AI's societal impact and ethical implications. Through projects using IBM Watson Studio and IBM Cloud, students gained practical experience, creating a crop prediction model and developing chatbots. These activities not only enhanced their technical skills but also ignited a deeper interest in AI-driven solutions. This strong foundational understanding prepares students to confidently apply AI concepts in future projects and real-world applications.

## Photo Gallery:

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IEEE COMPUTER SOCIETY  
IEEE BANGALORE SECTION  
INSTITUTION'S INNOVATION COUNCIL

DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND DATA SCIENCE  
In Association with  
DEPARTMENT OF CSE, CSBS, ECE  
And  
edunet foundation  
Edunet Foundation  
Organizing Workshop on

**AI FOUNDATION COURSE**

23rd - 25th  
October 2024

AD Seminar Hall B-Block  
CPL Lab A-Block

9AM - 12PM  
1PM - 4PM

Trainers  
Mr. Piyush Pankaj & Mr. Thoufiq

Program Sponsor  
**IBM**



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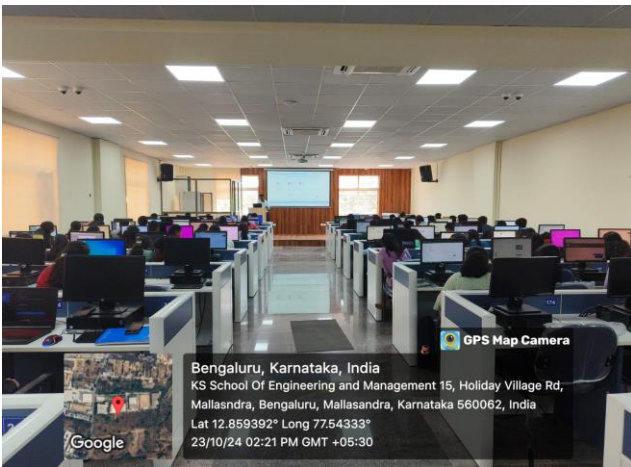
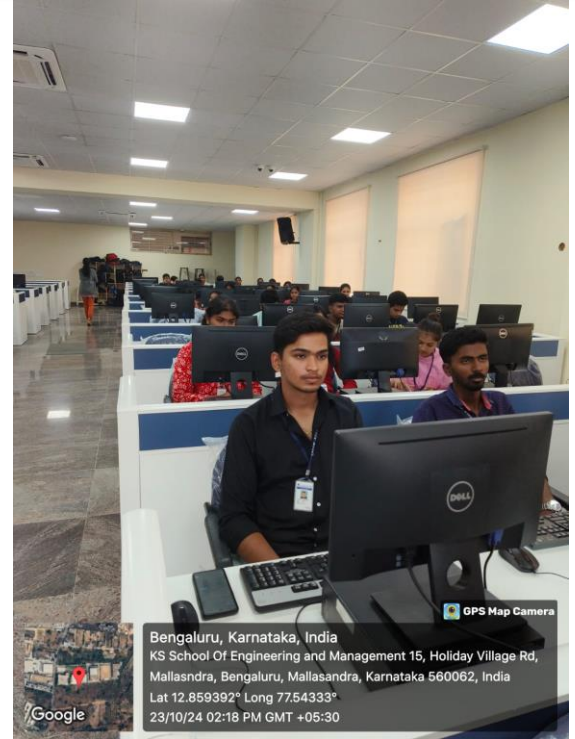
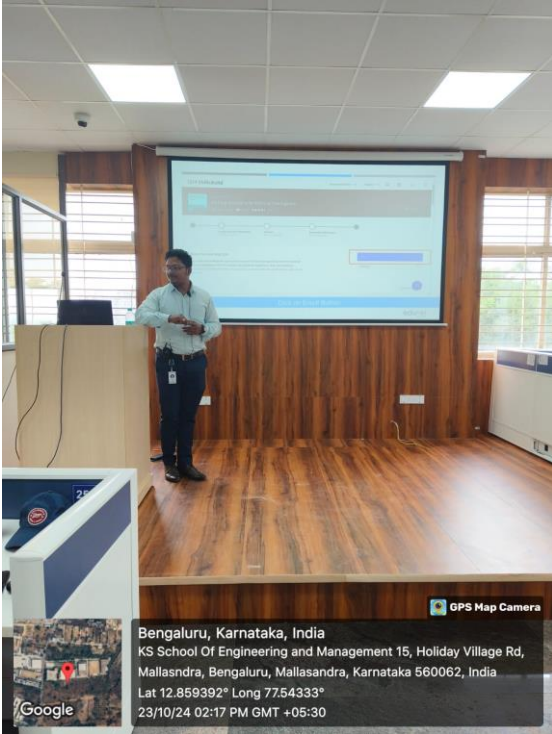
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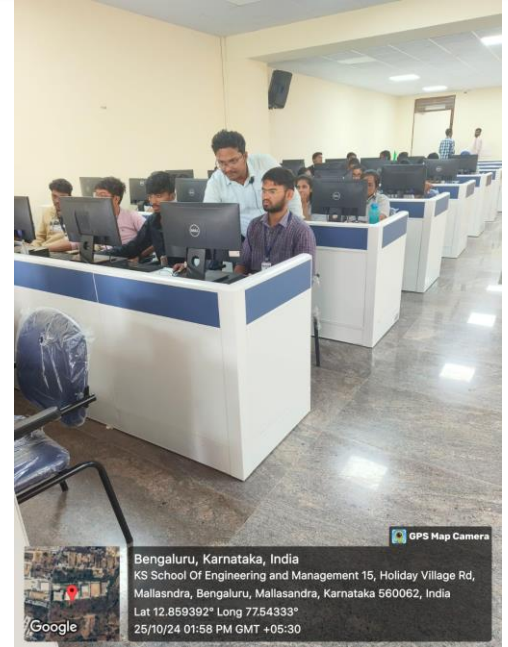
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TEACHING STAFF		QUALIFICATION	DESIGNATION	NO. OF STUDENTS			
Sr	Name		ASSOC. PROF & HEAD	YEAR	BOYS	GIRLS	TOTAL
1	Mr. MANJUNATH T K	M TECH	AP				
2	Mrs. PAVANA H	M TECH	AP				
3	Mrs. MADHUSMITA MISHRA	M TECH	AP				
4	Mrs. GEETHA P S	MCA	AP				
5	Ms. HARSHITHA H S	M TECH	AP	1			1
6	Mrs. RAJASHREE D INGALE	M TECH	AP	2	33	31	64
7	Mrs. PADMA PRIYA K	M TECH	AP	3	48	20	66
8	Mrs. TANUSHREE MOHAPATRA	M TECH	AP	4	31	31	62
9	Mrs. SHILPA S	M TECH	AP				
10	Mrs. KAVYASHREE YADAV J	M TECH	AP				
				<b>TOTAL</b>	<b>110</b>	<b>82</b>	<b>192</b>
NON TEACHING STAFF				SUPPORTING STAFF			
Sr	Name	Qualification	Designation	MR. RAMU S	MR. SIDDLAM S S L C	MRS. PAVITHRA K M S S L C	
1	Mr. MANJUNATH S	BE	DMER	08.24			
2	Mr. N/ PG	BSc	DMER	09.24			
3	Mrs. P V	BE	DMER	09.24			
4	Mrs. I G	Sc	ASSISTANT	09.24			
				<b>COMMENCEMENT OF EVEN/ ODD SEM</b>			
				LAST WORKING DAY	11.12.24		
					12.24		

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**DEPARTMENT OF ARTIFICIAL INTELLIGENCE & DATA SCIENCE**  
**PROGRAM OUTCOMES (POs)**

- PO-1: Demonstrate knowledge, apply and use knowledge of various software engineering tools and computer science to solve engineering problems.
- PO-2: Problem Solving: Ability to analyze, identify, design, develop, test, and use software systems, and to apply software engineering principles to solve engineering problems.
- PO-3: Software Development: Ability to design, develop, test, and use software systems, and to apply software engineering principles to solve engineering problems.
- PO-4: Software Testing: Ability to design, develop, test, and use software systems, and to apply software engineering principles to solve engineering problems.
- PO-5: Software Maintenance: Ability to design, develop, test, and use software systems, and to apply software engineering principles to solve engineering problems.
- PO-6: Software Project Management: Ability to design, develop, test, and use software systems, and to apply software engineering principles to solve engineering problems.
- PO-7: Software Quality Assurance: Ability to design, develop, test, and use software systems, and to apply software engineering principles to solve engineering problems.
- PO-8: Software Security: Ability to design, develop, test, and use software systems, and to apply software engineering principles to solve engineering problems.
- PO-9: Software Reliability: Ability to design, develop, test, and use software systems, and to apply software engineering principles to solve engineering problems.
- PO-10: Software Performance: Ability to design, develop, test, and use software systems, and to apply software engineering principles to solve engineering problems.

**Program Educational Objectives (PEOs)**

- PEO1: Practice engineering in a broad range of real-world applications.
- PEO2: Pursue advanced education, research, and technology, as well as other professional and leadership opportunities.
- PEO3: Conduct themselves in a responsible, professional, and ethical manner.
- PEO4: Participate as leaders in their fields of interest and contribute to the economic development of the nation.

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IEEE Advisor

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