Date: 11.06.2024

Event Report

Academic year:2023-24	**Semester: 6th semester students**
Name of the Event: Hands- on Learning: Building Cloud solutions with Azure IaaS	**Date of the Event: 06.06.2024 to 10.06.2024**
Time: 9:00AM to 5:00PM	**Venue: ECE Dept**
Resource Persons: • **Dr. Phanindra Reddy K., Associate Professor, BITM, Bellary** • **Dr. Girija Vani G., Associate Professor BITM, Bellary**	

Objectives of the Event:

The workshop on "Hands-on Learning: Building Cloud Solutions with Azure IaaS" typically focuses on imparting practical skills and knowledge related to Microsoft Azure's Infrastructure as a Service (IaaS) offerings. Key objectives of the workshop include:

- Understanding Azure IaaS Fundamentals: Provide participants with a solid foundation in Azure Infrastructure as a Service, including virtual machines, virtual networks, storage, and identity management.
- Hands-on Experience: Offer participants practical experience in deploying and managing Azure IaaS resources through guided exercises and labs. This helps in bridging the gap between theoretical knowledge and practical application.
- Deployment Best Practices: Teach best practices for designing, deploying, and managing Azure IaaS solutions, focusing on scalability, security, and cost optimization.
- Networking and Connectivity: Cover topics related to creating and managing virtual networks, configuring VPNs, and connecting on-premises networks to Azure.
- Storage Solutions: Explore various Azure storage options, including Blob storage, File storage, and Disk storage, and how to choose the appropriate solution based on requirements.
- Security and Compliance: Discuss security considerations in Azure IaaS deployments, including identity and access management, network security groups, and compliance standards.
- Monitoring and Management: Introduce monitoring tools and techniques for Azure IaaS resources, including Azure Monitor, metrics, and logging, to ensure performance and availability.

- Automation and Orchestration: Showcase automation capabilities using Azure Resource Manager (ARM) templates, PowerShell, or Azure CLI to streamline deployment and management tasks.
- Troubleshooting and Support: Equip participants with troubleshooting skills for common issues encountered in Azure IaaS deployments, including troubleshooting connectivity, performance, and configuration problems.
- Real-world Scenarios: Provide real-world use cases and scenarios where Azure IaaS solutions can be applied effectively, demonstrating practical applications of the learned concepts.

By focusing on these objectives, the workshop aims to empower participants with the skills and confidence needed to design, deploy and manage Azure-based Infrastructure as a Service solution effectively in real-world environments.

Details of Event:

The department of Electronics & Communication Engineering and department of Master of Computer Applications in association with ISTE and IETE under Institution Innovation Counsil (IIC) organized one week student development program for 6th semester students from 6th June, 2024 to 10th June,2024 in ECE dept. at SIET campus.

The inaugural function was hosted by Ms. Shaziya Naaz Ilkal of 6th semester, ECE dept., under the guidance of Dr. Saba Fatima, Associate Professor, Dept. of ECE.

Resource Persons Dr. Phanindra Reddy K., Associate Professor, BITM, Bellary, Dr. Girija Vani G., Associate Professor BITM, Bellary, Ms. Tabasum G., HOD, ECE dept., Dr. S. A. Quadri, HOD, CSE dept, Mr. Md. Ziaullah C, Assistant Professor, ECE dept., Mr. Aarif Makandar, Assistant Professor, ECE dept. & IIC Convener, inaugurated the function.

Mr. Md. Ziaullah C., coordinator of the workshop, addressed the students giving key high lights of the workshop sessions. Ms. Tabasum G., HOD, ECE dept., shared her views about the scope of the workshop concepts and suggested students to take maximum benefit out of all the sessions during the workshop.

Eligibility to Participate

Students of UG/PG/Academic Institutes/ Ph. D. Scholars belonging to all the disciplines of Science, Arts and Technology are eligible to attend.

Workshop Highlights

"Hands-on Learning: Building Cloud Solutions with Azure IaaS" is a practical course designed to equip participants with the skills and knowledge needed to effectively utilize Microsoft Azure's Infrastructure as a Service (IaaS). The course emphasizes hands-on labs and real-world scenarios, providing comprehensive coverage of key Azure IaaS components such as virtual machines, networking, and storage solutions. Participants will learn to automate deployments using ARM templates, PowerShell, and Azure CLI, and integrate with Azure DevOps for continuous integration and delivery. The course also covers advanced networking configurations, robust security practices using Azure Security Center and Active Directory, and effective monitoring and troubleshooting with Azure Monitor and Log Analytics.

Registration Link:
https://forms.gle/yH68JueKUbquS2Hd7

Last date for receiving completely filled registration forms **06/06/2024**

E-Certificates* will be provided to the participants.

Chief Patron:

Shri S.A. Punekar
President, SECAB Association, Vijayapura

Patron:

Shri. A. S. Patil,
Secretary, SECAB Association, Vijayapura

Shri. Salahuddin Punekar,
Director, SECAB Association, Vijayapura

Dr. Syed Abbas Ali,
Principal, SIET, Vijayapura

Convener:

Prof. Tabasum Guledgudd, HOD, ECE, SIET
Prof. N. M. Patel, HOD, MCA, SIET
Prof. Md. Ziaullah, Asst. Prof, ECE, SIET

Resource Speaker:

1. **Dr. Phanindra Reddy K,** BITM, Bellary
2. **Dr. Girija Vani G,** BITM, Bellary

Organizing Committee:

1. **Dr. Saba Fatima,** SIET, Vijayapura
2. **Prof. M. R. Chikkond,** SIET, Vijayapura
3. **Prof. Uzma I Satteekar ,**SIET, Vijayapura
4. **Prof. Aarif Makandar,** SIET, Vijayapura
5. **Prof. Shahina Begum,** SIET, Vijayapura
6. **Prof. Mubeena Bagawan,** SIET, Vijayapura

Venue: Department of Electronics and Communication Engineering
Time: 09:00 AM

One Week Workshop
On
"Hands-on Learning: Building Cloud Solutions with Azure IaaS"

6th -10th June 2024

Organized by
Department of Electronics & Communication Engineering
&
Master of Computer Applications

In association with ISTE, IETE & IIC

SECAB INSTITUTE OF ENGINEERING AND TECHNOLOGY, VIJAYAPUR-586109 KARNATAKA, (INDIA).

About the Institution

SECAB Institute of Engineering and Technology (SIET) is the brainchild of the visionary and founder of the Institute Sri S.A Punekar. It was established in 2002 and then onwards its fame and name ameliorated to multitudes, making it a prestigious engineering college affiliated to Visvesvaraya Technological University (VTU),Belagavi and approved by AICTE, New Delhi. Over the years, SIET evolved and achieved recognition as a notable School of Engineering. The competent and committed faculty, high-quality infrastructure, latest teaching aids are infused together to meet International Standards.

About the Department

- Department of Electronics& Communication Engineering, S.I.E.T was established in the year 2002 with an intake of 60. Department of Electronics and Communication Engineering strives for increasing the knowledge, enhancing the critical thinking, ability to change information into knowledge and power of analyzing the things technically of each and every student in the ever changing society.
- Department of MCA , was established in the year 2022 with an intake of 60. The MCA program is designed to produce skilled professionals ready to meet the demands of the rapidly evolving IT industry. With a focus on both theoretical knowledge and practical skills, the program prepares students for a variety of roles in software development, system management, and IT services, paving the way for a successful career in the field of computer applications.

Learning Objectives

The course "Hands-on Learning: Building Cloud Solutions with Azure IaaS" aims to provide practical, in-depth knowledge and skills related to Microsoft Azure Infrastructure as a Service (IaaS). The learning objectives typically include:

1. **Understanding Azure IaaS Fundamentals**
2. **Provisioning and Managing Virtual Machines (VMs):**
   - Create and configure virtual machines in Azure.
   - Manage VM availability and scalability.
   - Implement VM backup and recovery strategies.
3. **Networking in Azure:**
   - Design and implement Azure virtual networks.
   - Configure and manage network security groups, VPN gateways, and load balancers.
   - Implement hybrid network configurations
4. **Storage Solutions in Azure**:
   - Understand and configure different Azure storage options (Blob, Disk, File, and Queue storage).
5. **Global VNET Peering**
   - Transit VNET Peering
   - Global VNET Peering- on Learners Request

Contact for Registration:

Staff	Student
Prof. Aarif Makandar	Mr. Shoaib Mulla
7019388366	6thSem ECE

One Week Workshop
On
"Hands-on Learning: Building Cloud Solutions with Azure IaaS"

REGISTRATION FORM

(Fill in the details in Block Letters only)

Name: .....

USN: .....

Semester:.....

Branch:.....

Institution: .....

Address: .....

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Mobile No:.....

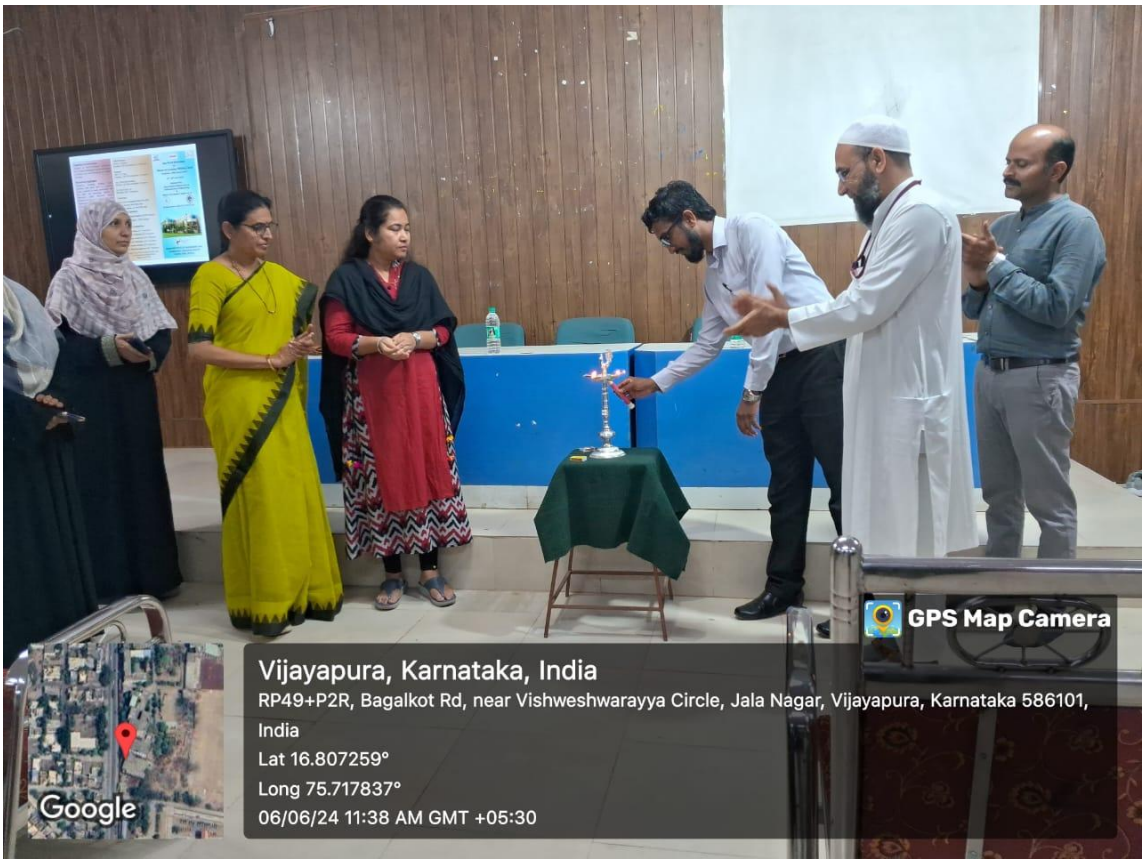
E-mail:.....

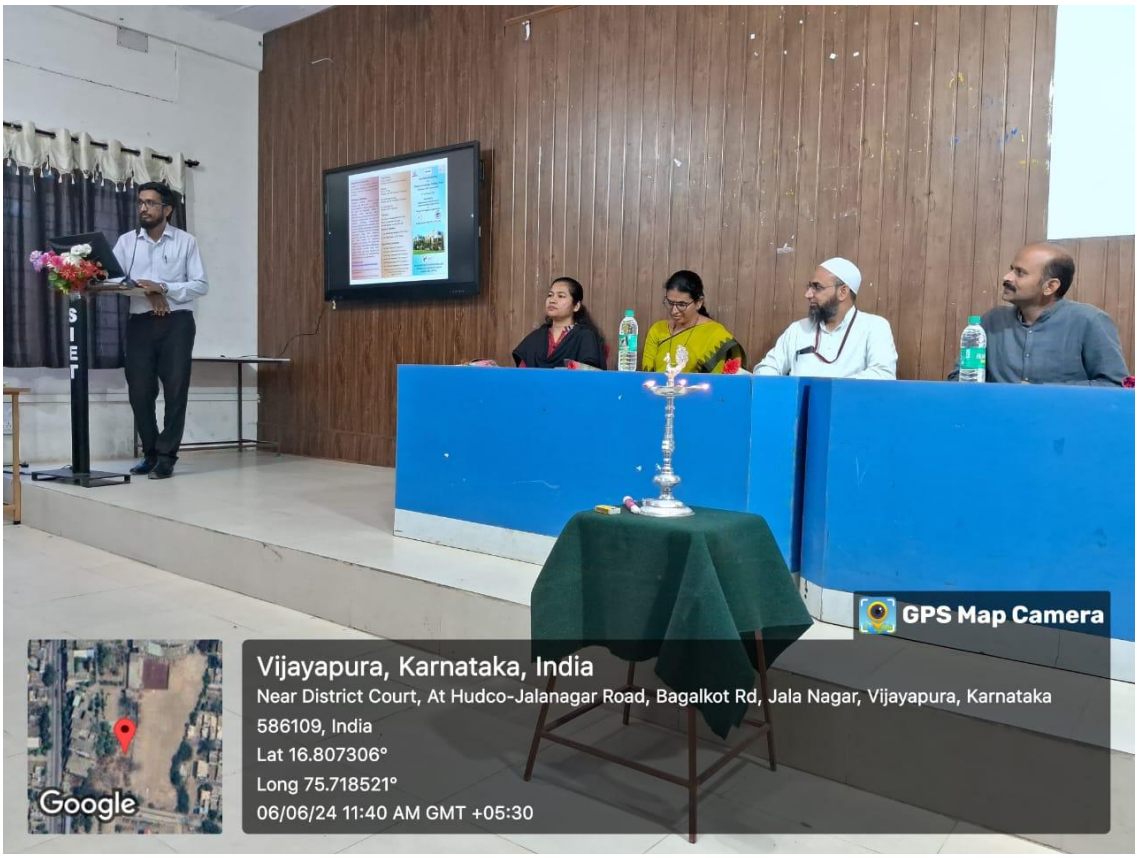
Date:

Signature of Participant

Approved By H.O.D

Glimpses of the Inaugural event and sessions of workshop

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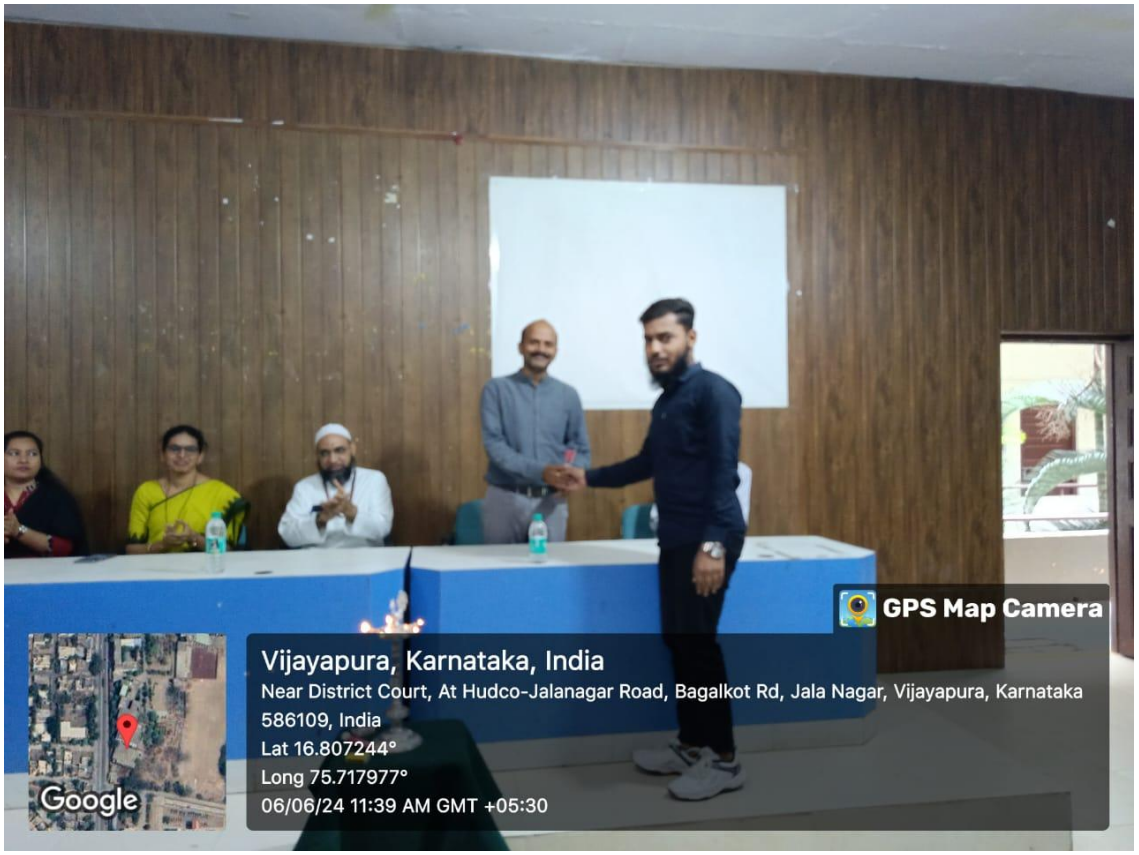
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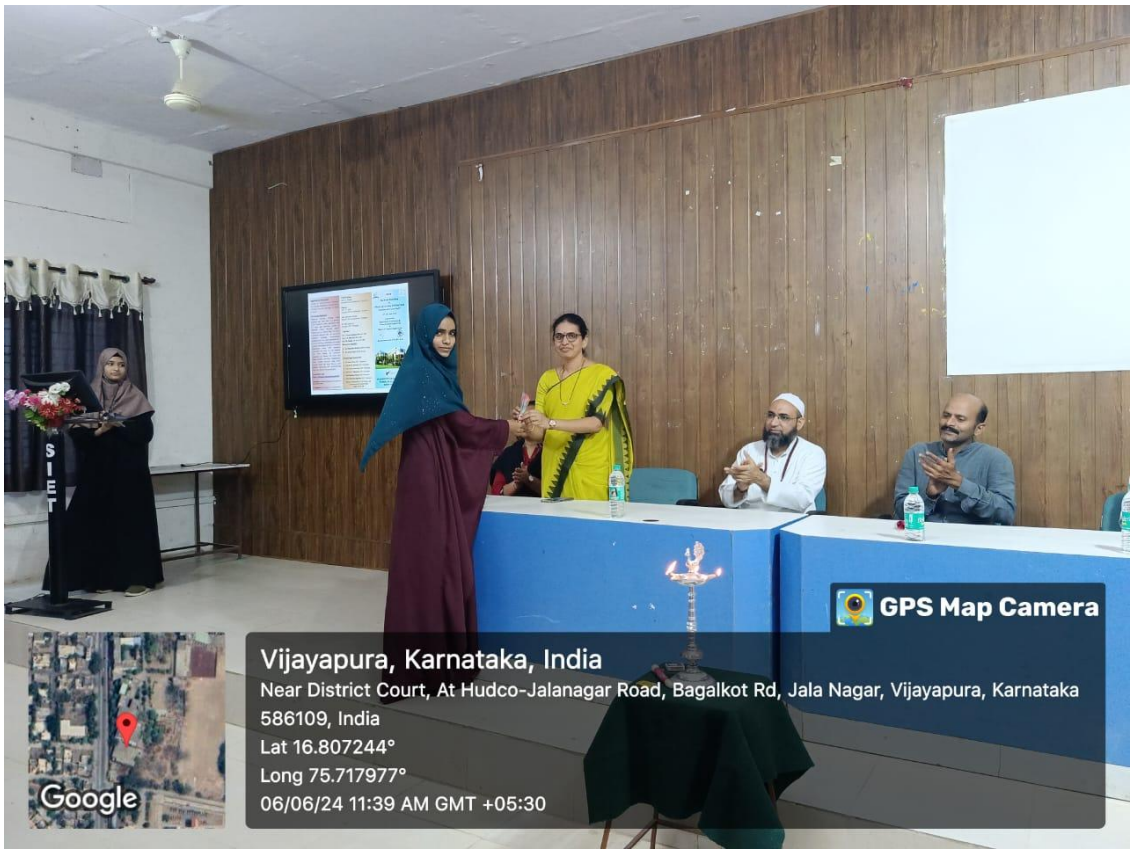
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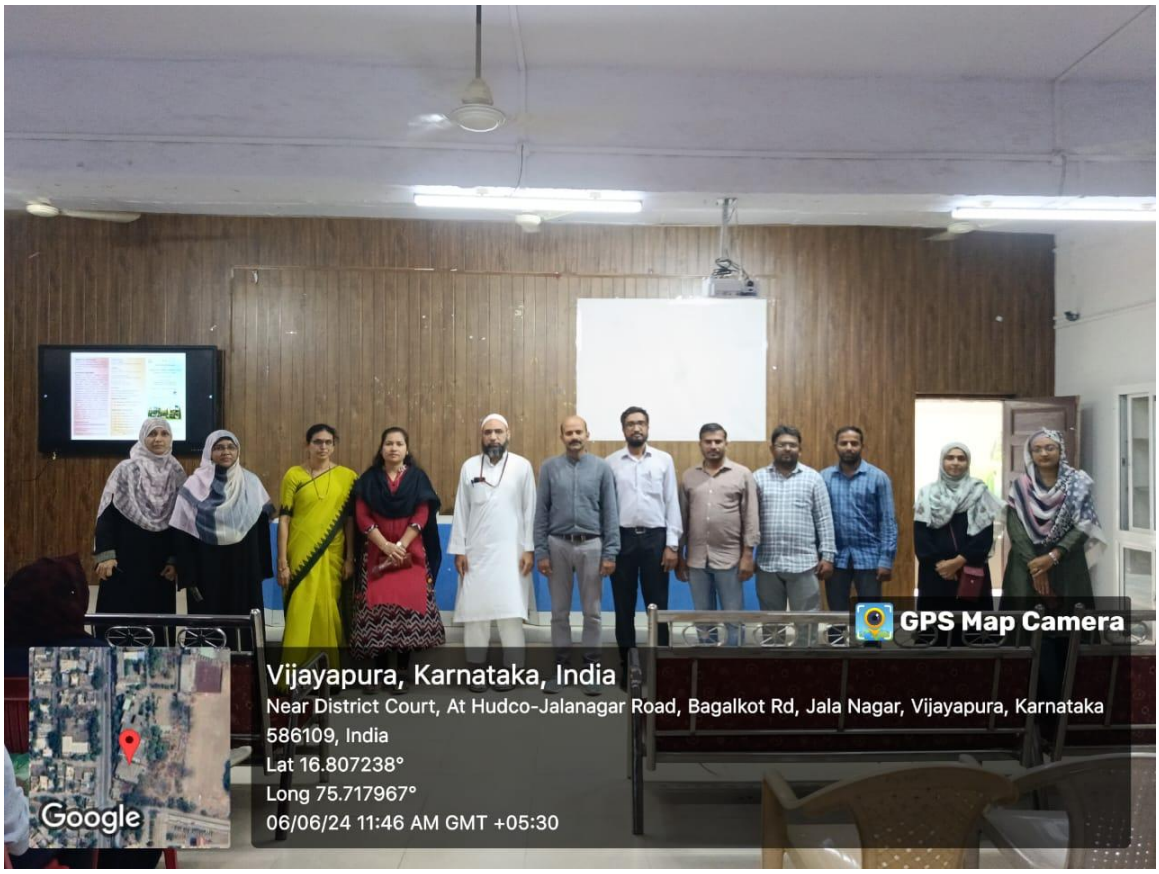
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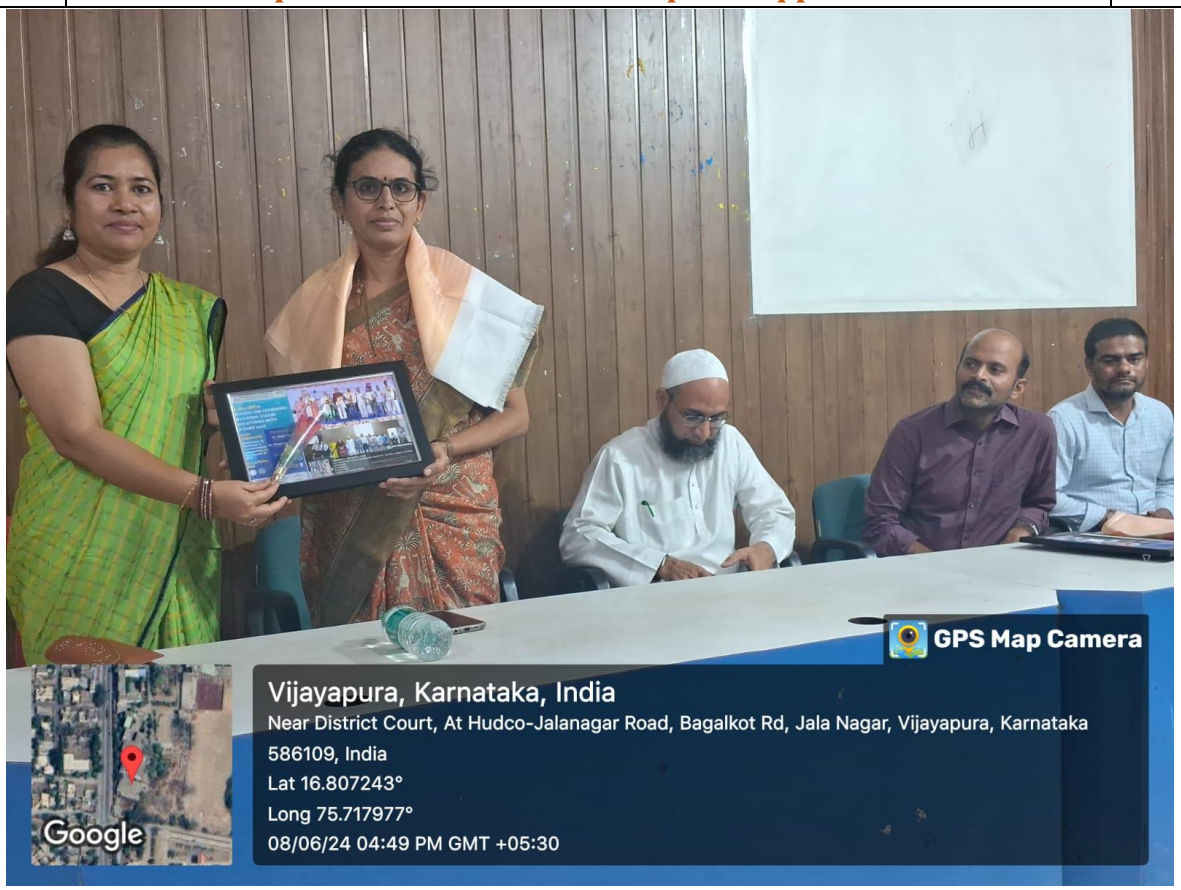
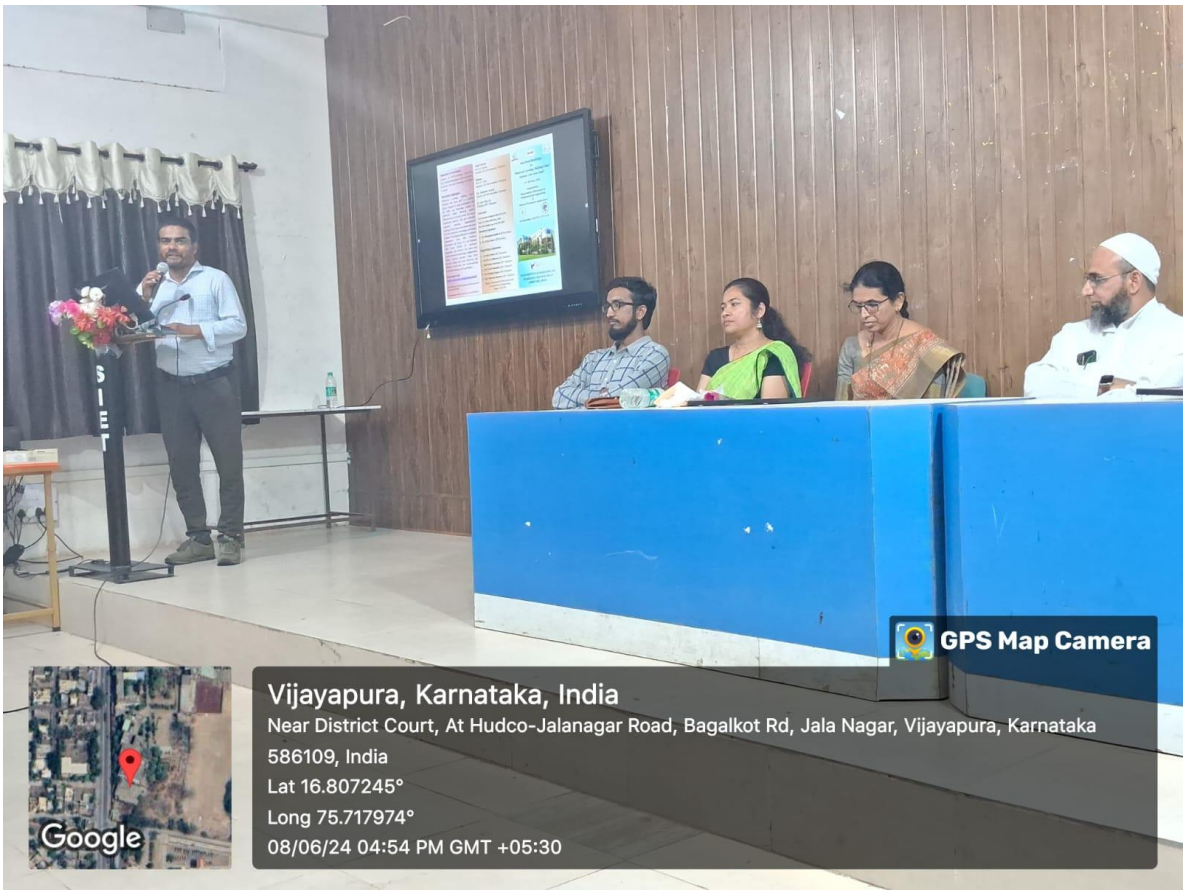
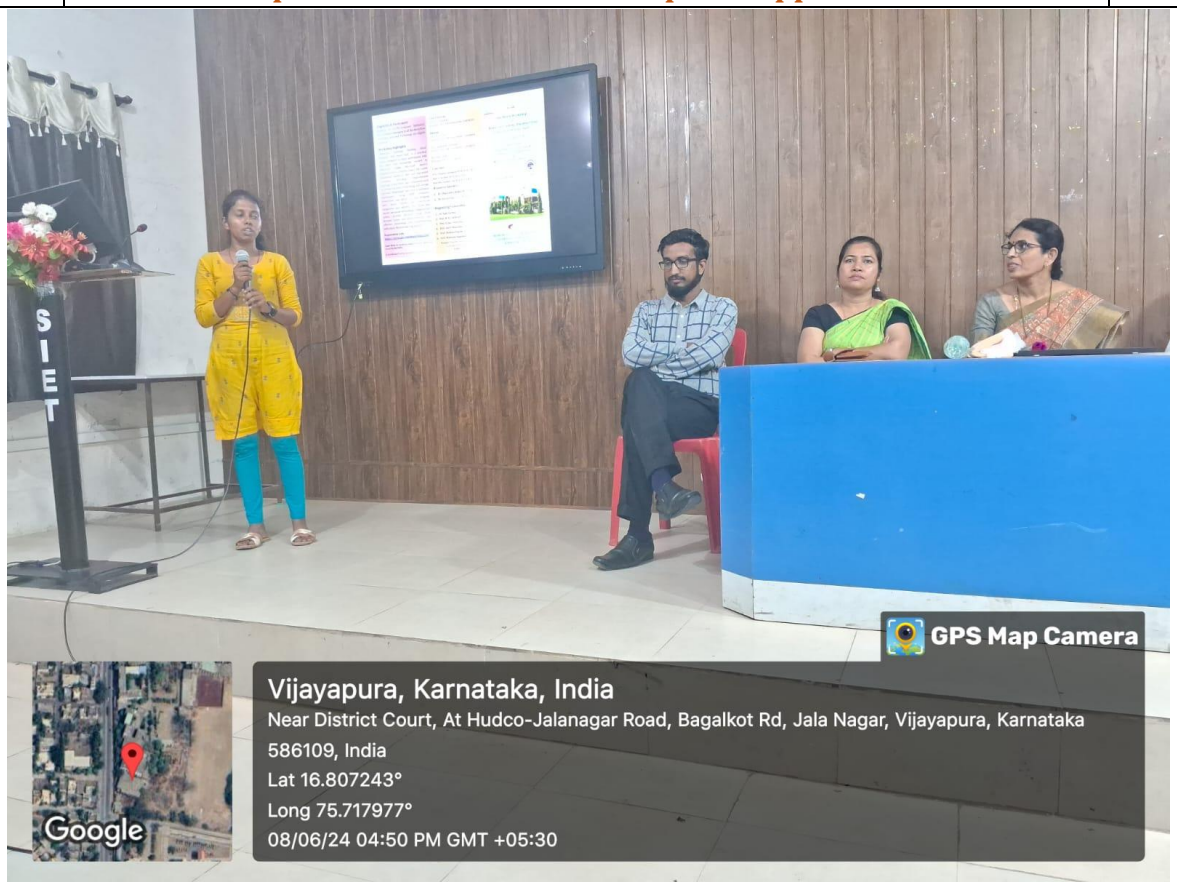
Valedictory event of workshop





Feedback from students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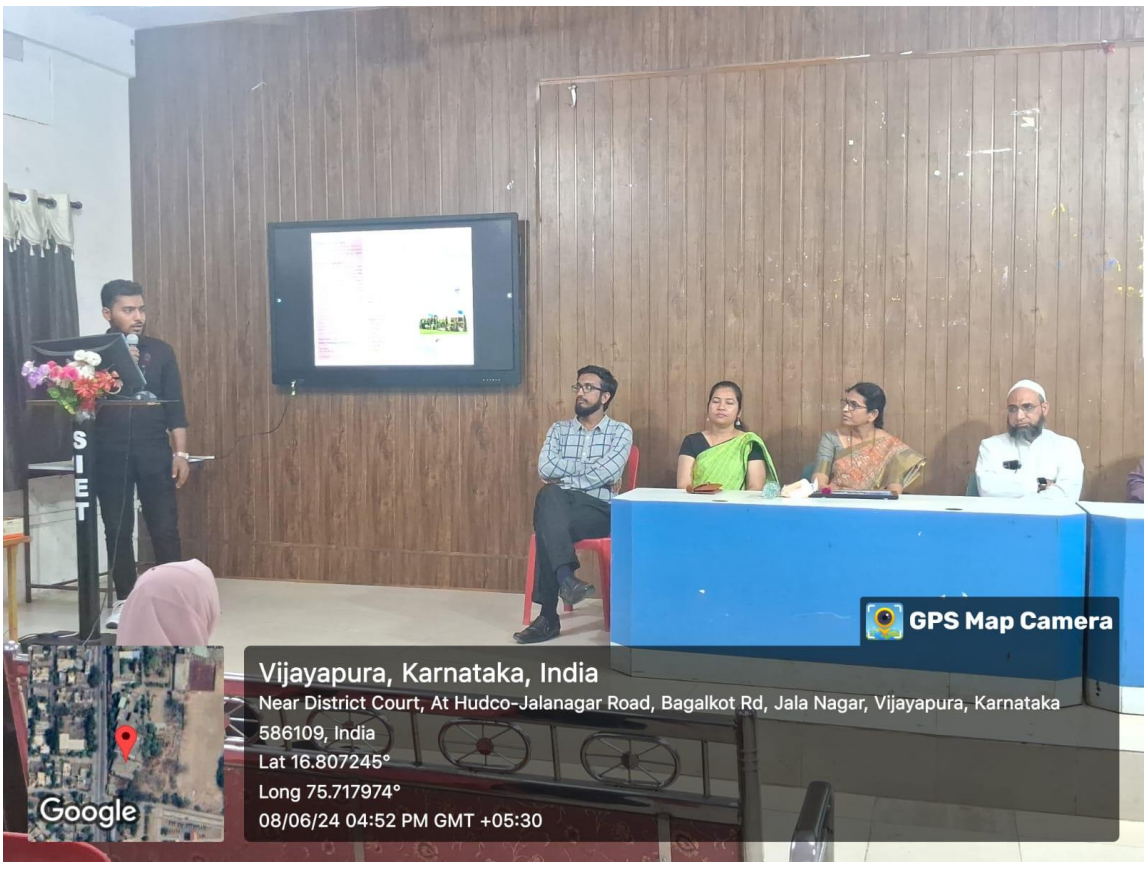
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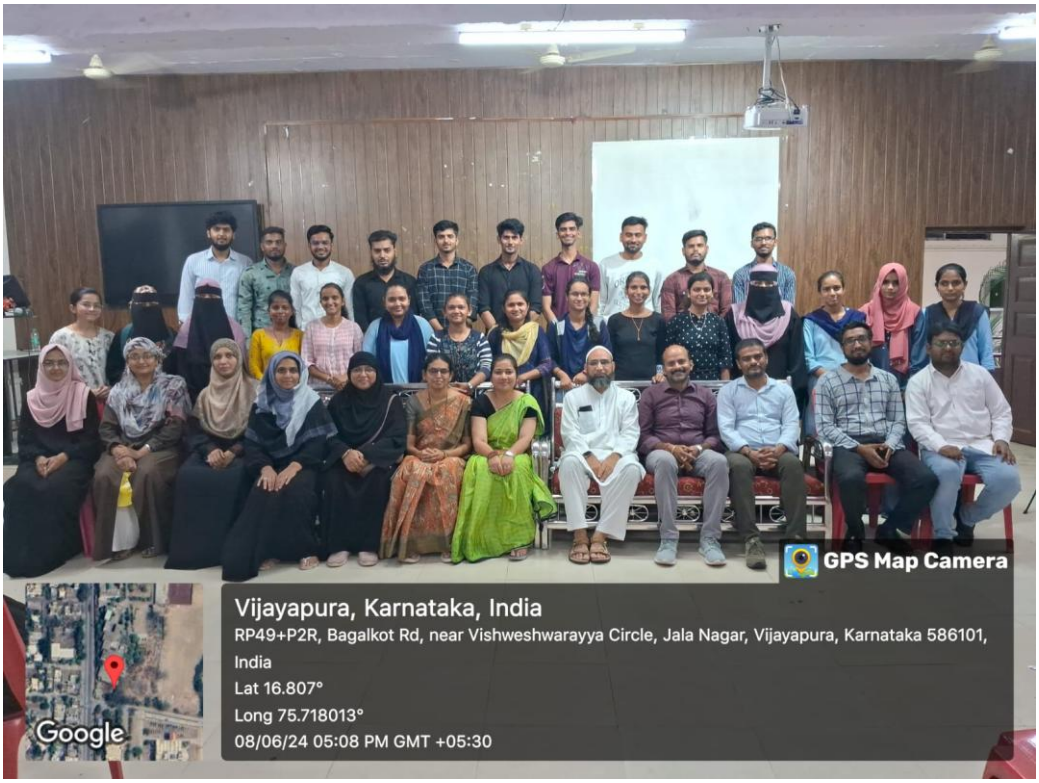

Coordinator	HOD	HOD	Principal
Md. Ziaullah C.	Dept. of MCA	Dept. of ECE	Dr. Syed Abbas Ali