



**Department of Computer Science and Engineering**



# **TECH SPACE**

**Volume-19**

**December 2024**

**Meerut Institute of Engineering and Technology  
N.H. 58, Delhi-Roorkee Highway, Baghpat Bypass  
Road Crossing, Meerut, Uttar Pradesh 250005**



## **VISION**

To be an excellent department that imparts value-based quality education, Research and innovative technology.

## **MISSION**

M1: To fulfill the requirement of skilled human resources with focus on quality education.

M2: To create globally competent and socially responsible technocrats by providing value and need based training.

M3: To improve Industry-Institution Interaction and encourage the research activities.

## **PROGRAM EDUCATION OBJECTIVE**

PEO-1: Students will have the successful careers in the field of computer science and allied sectors as an innovative engineer.

PEO-2: Students will advance their careers through professional activities Certification and higher studies.

PEO-3: Students will be able to exhibits high level of professional skills and commitment to life-long learning.

PEO-4: Students will be ready to serve society in any manner and become a responsible and aware citizen.

PEO-5: Establishing students in a leadership role in any field.



## PROGRAM OUTCOMES

### Engineering Graduates will be able to:

1. **Engineering Knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
2. **Problem Analysis:** Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
3. **Design/development of solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
4. **Conduct investigations of complex problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
5. **Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
6. **The engineer and society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
7. **Environment and sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
8. **Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
9. **Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
10. **Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
11. **Project management and finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
12. **Life-long learning:** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.



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### MESSAGE FROM CHAIRMAN



**Shri Vishnu Sharan**

It is true that the strength of CSE lies in his grit & determination, a forceful support by his excellent subordinates and the overall study orientation by multi development policies that has distinctly made MIET a name brightening up in progression each year.

**(Shri Vishnu Sharan)**

### MESSAGE FROM DIRECTOR



**Prof. (Dr.) S.K. Singh**

I congratulate CSE department on the 18th volume of their magazine Tech Space. Our Students are doing good in placements, university merit list, curricular and co-curricular activities. We are working on nurturing the students in every aspect.

I wish success to all students and faculty members in all future endeavors.

**(Prof. (Dr.) S.K. Singh )**

### MESSAGE FROM HEAD



**Dr. Vikas Srivastava**

The department considers the committed and dedicated staff as its core strength in providing value education with professional standards. Our faculties with experiences in both teaching and industry constantly aspire to achieve academic excellence with emphasis on ingraining inventive thinking and leadership skills in our students. The department is regularly organising Industry Oriented Programs (IoPs) on Amazon Web Services (AWS), Salesforce, Google Cloud, Python for Machine Learning & Data Science, and JAVA etc to enhance the skills and make the students Industry ready.

**(Dr. Vikas Srivastava)**



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## FACULTY DEVELOPMENT PROGRAM

Congratulation to Ms. Sristi Vashisth, Assistant Professor, Department of Computer Science & Engineering. She completed training program on “Principles of Generative AI Certification” conducted by Infosys on 13 December 2024



Congratulation to Mr. Vijay Kumar Sharma, Assistant Professor, Department of Computer Science & Engineering. He completed training program on “Modern Data Science, Machine Learning and Cyber Security Strategies” conducted by Intellects LLP on 15 July 2024 to 19 July 2024



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## FACULTY DEVELOPMENT PROGRAM

Congratulation to Ms. Priyanka Dhanraj, Assistant Professor, Department of Computer Science & Engineering. She completed training program on “Database Solutions Expert” conducted by TalentNext from 09/09/24 - 27/09/24.



Congratulation to Mr. Vivek Kumar, Assistant Professor, Department of Computer Science & Engineering. He completed training program on “Educational Leadership & Effective Decision Making” conducted by Apeejay Stya University” from 21/10/2024-25/10/2024



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## FACULTY DEVELOPMENT PROGRAM

Congratulation to Ms. Sonam Jahan, Assistant Professor, Department of Computer Science & Engineering. She completed 2 days training program on “Can You See Me Now? Analyzing Satellite-to-Ground Station Visibility” from 13/11/24 - 14/11/24.





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## ECHOES CLUB EVENTS



**CAPT ARUN PUNDIR**  
OFFICER @ INDIAN ARMY



# दृश्या

*An Alumni Connect*



Mastering Coding Skills &  
Unlocking  
Opportunities in Tech and Defence

AUDI 5 | 25 September 2024 | 02:30 - 04:50

• **Convener**

Prof. (Dr.) Vikas Srivastava

• **Alumni SPOC**

Ms. Priyanka Dhanraj



Congratulation to Dr. Vikas Srivastava, Professor as a convener and Ms. Priyanka Dhanraj, Assistant Professor as a Alumni SPOC, Department of Computer Science & Engineering for successful event on “mastering coding skill and unlocking opportunities in Tech and Defence” held on 25 September 2024 by Mr. Arun Pundir, officer, Indian army.



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## ECHOES CLUB EVENTS

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**vishva** 2.0  
*An Alumni Connect*

**ECHOES MIET**

**AWS**  
**Your Ticket to Limitless Journey**

AUDI 6 | 24 October 2024 | 01:30 - 03:30

**CHIRAG BANSAL**  
AWS DEVELOPER

• **Convener**  
Prof. (Dr.) Vikas Srivastava

• **Alumni SPOC**  
Ms. Priyanka Dhanraj

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echoesofcse@miet.ac.in

Congratulation to Dr. Vikas Srivastava, Professor as a convener and Ms. Priyanka Dhanraj, Assistant Professor as a Alumni SPOC, Department of Computer Science & Engineering for successful event on “AWS Your Ticket to Limitless Journey” held on 24 October 2024 by Mr. Chirag Bansal, AWS Developer.



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## ECHOES CLUB EVENTS





**VANSHIKA JAIN**  
@HEXAVIEW TECHNOLOGIES

**FROM DEVELOPMENT TO DEPLOYMENT:  
EXPLORING THE FULL STACK AND  
CAREER PATHWAYS WITH GUIDANCE**



**REGISTER NOW**

**NOVEMBER 14, 2024**  
**10:00 - 12:00**  
**AUDII -4**

**DEPARTMENT OF CSE**

• **Convener**  
Prof. (Dr.) Vikas Srivashtav

• **Alumni SPOC**  
Ms. Priyanka Dhanraj

• **Student Coordinator**  
Pradeep 8923915676  
Nikhil 9045214047

 **CONTACT US NOW**  
8923915676

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echoesofcse@mi et.ac.in

Congratulation to Dr. Vikas Srivastava, Professor as a convener and Ms. Priyanka Dhanraj, Assistant Professor as a Alumni SPOC, Department of Computer Science & Engineering for successful event on “From Development to Deployment: Exploring the full stack and career pathways with guidance” held on 14 November 2024 by Ms. Vanshika Jain, Hexa-view Technologies.



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## MLSA CLUB EVENTS

**AVSAR**  
by MLSA MIET

**ADITYA ATTKAN**

Founder of MLSA UIET | MLSA-Beta |  
Frontend Developer

**JOIN THE SESSION**

October  
Monday **14** 3-5pm  
VENUE: Audi 4

**APPLY NOW**

**Avsar** was an orientation session designed to onboard new members into the **MLSA MIET community**. The event emphasized MLSA's **vision, mission, and upcoming opportunities**, preparing students for **active participation** in future tech events and community-driven initiatives. Through engaging discussions, the session introduced students to MLSA's goals and the various ways they could contribute to shaping the tech ecosystem at MIET. The event aimed to inspire and motivate the new members, setting the tone for their journey in MLSA.



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## MLSA CLUB EVENTS

# Season of AI

**THIS ONLINE SESSION AIMS TO LEARN**

- Introduction to Azure AI Studio Interface .
- Step-by-step process of building a Retrieval - Argument Generation (RAG) model .
- Introduction to various multi-models available in Azure AI Studio .
- Monitoring and maintaining deployed models

**Session Details**

31st August, 2024

12:00 p.m. - 1:00 p.m.

Microsoft Teams

Scan here

**VANI MITTAL**  
PAT @Cognizant, GOLD MLSA, WOHIT  
Lead @Microsoft

The Season of AI session kickstarted an exciting journey into artificial intelligence and machine learning with Azure AI Studio. Participants explored **AI models**, **data processing**, and **real-world applications** through an engaging workshop. The session provided **hands-on experience**, enabling attendees to harness AI tools for solving complex problems. With a focus on **practical knowledge**, students learned to navigate **Azure AI Studio** and apply it effectively across various domains. This inspiring session aimed to **empower students** to innovate and excel in the **AI-driven future**, leaving them motivated to explore the endless possibilities of artificial intelligence.



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## DEPARTMENT ACHIEVEMENTS



# COURSE COMPLETION CERTIFICATE

The certificate is awarded to

**Vijay Kumar Sharma**

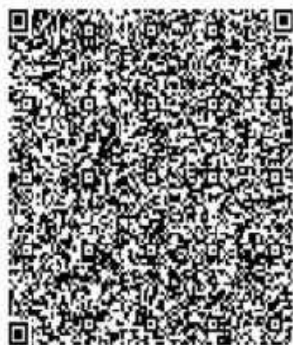
for successfully completing the course

**Programming Fundamentals using Python - Science Graduates - Foundation Program**

on August 24, 2024



*Congratulations! You make us proud!*



Issued on: Saturday, August 24, 2024

To verify, scan the QR code at <https://verify.onwingspan.com>

Thirumala Arshi  
Executive Vice President and Global Head  
Education, Training & Assessment (ETA)  
Infosys Limited

Congratulation to Mr. Vijay Kumar Sharma, Assistant Professor, Department of Computer Science & Engineering for completing the course “Programming Fundamentals using Python –Science Graduates - Foundation Program” on 24 August 2024.



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## DEPARTMENT ACHIEVEMENTS



# COURSE COMPLETION CERTIFICATE

The certificate is awarded to

**Vijay Kumar Sharma**

for successfully completing the course

**Basics of Python**

on August 22, 2024



*Congratulations! You make us proud!*

Thirumala Arohi  
Executive Vice President and Global Head  
Education, Training & Assessment (ETA)  
Infosys Limited

Issued on: Saturday, August 24, 2024

To verify, scan the QR code at <https://verify.onwingspan.com>

Congratulation to Mr. Vijay Kumar Sharma, Assistant Professor, Department of Computer Science & Engineering for completing the course “Basics of Python” on 22 August 2024.



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## DEPARTMENT ACHIEVEMENTS



Congratulation to Mr. Vijay Kumar Sharma, Assistant Professor, Department of Computer Science & Engineering for extensive contribution and efforts as a Reviewer for 3rd International Conference on Control, Computing, Communication and Materials 2024 (ICCCCM-2024) held on 10th and 11th August 2024.



## TOP 10 COMPETITIVE CODING WEBSITES

### Competitive Coding Website

| S. No. | Website                                  | Links                                                                                                                 |
|--------|------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| 1      | HackerEarth                              | <a href="https://www.hackerearth.com/">https://www.hackerearth.com/</a>                                               |
| 2      | HackerRank                               | <a href="https://www.hackerrank.com/">https://www.hackerrank.com/</a>                                                 |
| 3      | CodeWars                                 | <a href="https://www.codewars.com/">https://www.codewars.com/</a>                                                     |
| 4      | CodeChef                                 | <a href="https://www.codechef.com/">https://www.codechef.com/</a>                                                     |
| 5      | LeetCode                                 | <a href="https://leetcode.com/">https://leetcode.com/</a>                                                             |
| 6      | Project Euler                            | <a href="https://projecteuler.net/">https://projecteuler.net/</a>                                                     |
| 7      | Repl Challenges                          | <a href="https://challenges.repl.com/">https://challenges.repl.com/</a>                                               |
| 8      | KickStart — Google's Coding Competitions | <a href="https://codingcompetitions.withgoogle.com/kickstart">https://codingcompetitions.withgoogle.com/kickstart</a> |
| 9      | Kaggle Learn                             | <a href="https://www.kaggle.com/learn">https://www.kaggle.com/learn</a>                                               |
| 10     | TopCoder                                 | <a href="https://www.topcoder.com/">https://www.topcoder.com/</a>                                                     |



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## VOLUME-19

*EDITORIAL BOARD*



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ASSISTANT PROFESSOR



PRATEEK MALIK  
STUDENT (SECOND YEAR)