



Department of Computer Science and Engineering



TECH SPACE

Volume-18

June 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



Prof. Mukesh Rawat

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.

(Prof. Mukesh Rawat)



DEPARTMENT PUBLICATIONS

1. A Conference paper Published by Mr. Vijay Kumar Sharma (Assistant Professor), Agam Gupta(Student), Abhishek Kumar (Student), Alfahad (Student), Mayank Kumar Singh (Student), Department of Computer Science & Engineering, MIET, Meerut .

Mr. Vijay Kumar Sharma (Assistant Professor), Agam Gupta(Student), Abhishek Kumar (Student), Alfahad (Student), Mayank Kumar Singh (Student), Department of Computer Science & Engineering, has published a conference paper on "Scrap Collection System E-Commerce Platform: Online Kabadiwala", in a conference titled "2024 IEEE International Conference on Computing, Power and Communication Technologies (IC2PCT)", (2024) 787-790(4) in IEEE.

[Scrap Collection System E-Commerce Platform: Online Kabadiwala | IEEE Conference Publication | IEEE Xplore](#)

2. A Journal Article Published by Dr. Satendra Kumar (Associate Professor), Vivek Kumar(Assistant Professor), Department of Computer Science & Engineering, MIET, Meerut

Dr. Satendra Kumar (Associate Professor), Vivek Kumar (Assistant Professor), Department of Computer Science & Engineering, has published a journal article on "A Multimodal Fusion and Ensemble Approach for Robust Fake News Detection through Deep Learning, Reinforcement Learning, and Using Blockchain to Enhance Security and Authorization" in a Journal titled "Recent Advances in Computer Science and Communications", (2024) in Bentham Science.

ISSN (Online): 2666-2566

[A Multimodal Fusion and Ensemble Approach for Robust Fake News Detection through Deep Learning, Reinforcement Learning, and Using Blockchain to Enhance Security and Authorization | Bentham Science \(eurekaselect.com\)](#)

3. A Journal Article Published by Mr. Jagbeer Singh (Assistant Professor), Aditya Garg (Student), Bulbul Chaudhary (Student), Abhinav Tyagi (Student), Aryan Tomar (Student), Department of Computer Science & Engineering, MIET, Meerut

Mr. Jagbeer Singh (Assistant Professor), Aditya Garg (Student), Bulbul Chaudhary (Student), Abhinav Tyagi (Student), Aryan Tomar (Student), Department of Computer Science & Engineering, has published a Journal Paper on "Netflix Clone Using Mern Stack" in a Journal "Educational Administration: Theory and Practice", (2024).

<https://kuey.net/index.php/kuey/article/view/4898>



DEPARTMENT PUBLICATIONS

4. A Research Paper Published by Dr. Waseem Ahmad (Associate Professor), Department of Computer Science & Engineering, MIET, Meerut

Dr. Waseem Ahmad (Associate Professor), Department of Computer Science & Engineering, has published a research paper on "Automatic Diabetic Foot Ulcer Recognition Using Multi-Level Thermographic Image Data " in MDPI (Diagnostics) Journal Volume 13 issue 16.

[Diagnostics | Free Full-Text | Automatic Diabetic Foot Ulcer Recognition Using Multi-Level Thermographic Image Data \(mdpi.com\)](#)

5. A Research Paper Published by Dr. Waseem Ahmad (Associate Professor), Department of Computer Science & Engineering, MIET, Meerut

Dr. Waseem Ahmad (Associate Professor), Department of Computer Science & Engineering, has published a research paper on "Optimizing Material Selection with Fermatean Fuzzy Hybrid Aggregation Operators" in MDPI (Axioms) Journal Volume 12 issue 10.

[Axioms | Free Full-Text | Optimizing Material Selection with Fermatean Fuzzy Hybrid Aggregation Operators \(mdpi.com\)](#)

6. A Research Paper Published by Dr. Mukesh Rawat (Professor), Madhur Agarwal (Student), Arpita Mittal (Student), Megha Tyagi (Student), Ashutosh Rana (Student), Department of Computer Science & Engineering, MIET, Meerut

Dr. Mukesh Rawat (Professor), Madhur Agarwal (Student), Arpita Mittal (Student), Megha Tyagi (Student), Ashutosh Rana (Student), Department of Computer Science & Engineering, has published a Research Paper on "EMOTIONS ANALYSIS USING DEEP LEARNING " in a Journal "Stochastic Modelling and Computational Sciences", (December 2023) vol 3 no 2, pp 437-441(5).

[smc-v3-2-2023-21.pdf \(romanpub.com\)](#)



FACULTY DEVELOPMENT PROGRAM

Congratulation to Mr. Ankush Gupta, Assistant Professor, Department of Computer Science & Engineering. He completed training program on “Salesforce Administrator” conducted by ICT Academy on 08 Jan 2024 to 12 Jan 2024



Congratulation to Dr. Satendra Kumar, Associate Professor, Department of Computer Science & Engineering. He completed training program on “Salesforce Administrator” conducted by ICT Academy on 08 Jan 2024 to 12 Jan 2024



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FACULTY DEVELOPMENT PROGRAM

Congratulation to Ms. Prena, Assistant Professor, Department of Computer Science & Engineering. She completed 5 days training program on “Building Advanced Data Analytics applications with cloud” from 29/01/24 - 02/02/24.



Congratulation to Mr. Md. Shahid, Assistant Professor, Department of Computer Science & Engineering. he completed training program on “The Recent Trends of Big data and Artificial Intelligence in the field of computer science and the department of Agriculture Engineering” conducted by CCS from 05/02/2024-12/02/2024



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Congratulation to Mr. Meharban Ali Assistant Professor, Department of Computer Science & Engineering. he completed 3 days training program on “Applications of Matlab in AI and ML” from 05/02/24 - 07/02/24.



Congratulation to Dr. Satendra Kumar, Associate Professor, Department of Computer Science & Engineering. he completed training program on “The Recent Trends of Big data and Artificial Intelligence in the field of computer science and the department of Agriculture Engineering” conducted by CCS from 05/02/2024-12/02/2024



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FACULTY DEVELOPMENT PROGRAM

Congratulation to Vijay Sharma, Assistant Professor, Department of Computer Science & Engineering. he completed 5 days training program on “Intellectual Property Rights in the age of AI, ML, Cyber Security and Blockchain” from 24/06/24 - 28/06/24.



Congratulation to Mr. Vijay Sharma, Assistant Professor, Department of Computer Science & Engineering. he completed training program on “Confluence of deep Learning, Generative AI and Data Science” conducted from 06/05/2024-10/05/2024



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Congratulation to Mr. Vijay Sharma, Assistant Professor, Department of Computer Science & Engineering for extensive contribution and effort as a Reviewer for ICICCT-2024 Conference held on 28th to 29th June 2024.



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DEPARTMENT ACHIEVEMENTS

INTELLECTUAL PROPERTY INDIA
GOVERNMENT OF INDIA
DESIGN PATENT OFFICE

ORIGINAL
श्रम - H/Serial No. - 153230

पेटेंट कार्यालय, भारत सरकार | The Patent Office, Government Of India
डिजाइन के पंजीकरण का प्रमाण पत्र | Certificate of Registration of Design

डिजाइन सं. / Design No. : 373410-001
तारीख / Date : 02/11/2022
पारस्परिकता तारीख / Reciprocity Date* :
देश / Country :

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन को **MICROCHANNEL HEAT SINK WITH FINS** से संबंधित है, का पंजीकरण, श्रेणी 13-03 में 1.Dr. Anil Singh Yadav 2. Richa Saxena 3.Dr. Kailash Rai 4.Dr. Satendra Kumar 5.Dr. Vimal Chouksey 6.Dr. Tabish Alam के नाम से उपर्युक्त संख्या और तारीख में कर लिया गया है।

Certified that the design of which a copy is annexed hereto has been registered as of the number and date given above in class 13-03 in respect of the application of such design to **MICROCHANNEL HEAT SINK WITH FINS** in the name of 1.Dr. Anil Singh Yadav 2. Richa Saxena 3.Dr. Kailash Rai 4.Dr. Satendra Kumar 5.Dr. Vimal Chouksey 6.Dr. Tabish Alam.

डिजाइन अधिनियम, 2000 तथा डिजाइन नियम, 2001 के अन्वयेन प्रावधानों के अनुसरण में।
In pursuance of and subject to the provisions of the Designs Act, 2000 and the Designs Rules, 2001.

जारी करने की तिथि : 11/01/2024
Date of Issue :

सहायक पेटेंट, डिजाइन और ट्रेडमार्क विभाग
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The reciprocity date (if any) which has been allowed and the name of the country. Copyright in the design will subsist for ten years from the date of Registration, and may under the terms of the Act and Rules, be extended for a further period of five years. This Certificate is not for use in legal proceedings or for obtaining registration abroad.

Congratulation to Dr. Satendra Kumar, Associate Professor, Department of Computer Science & Engineering. He published design patent titled “**MICROCHANNEL HEAT SINK WITH FINS**” on 11 Jan 2024.



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Congratulation to Mr. Amit Kumar and Mr. Ankush Gupta , Assistant Professor, Department of Computer Science & Engineering. They published design patent titled “**DEVICE FOR HEALTHCARE DECISION SUPPORT**” on 02 May 2024.



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Shaurya Singhal
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Sagar Gussain
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Saumya Kapoor
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CSA WCHAN
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EMDHUR AGRAWAL
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MADHUR NARANG
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TUSHAR SHARMA
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TOP 10 COMPETITIVE CODING WEBSITES

Competitive Coding Website

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



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