Department of Computer Science and Engineering

TECH SPACE

Volume-13

December 2021

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 and uplifts innovative research in the ever-changing field of Technology.

Mission

1. To fulfill the requirement of skilled human resources with focus on quality education.
2. To create globally competent and socially responsible technocrats by providing value and need based training.
3. To improve Industry– Institute Interaction and encourage the innovative research activities.

Program Education Objective

1. Students will have the successful careers in the field of computer science and allied fields as an innovative engineer.
2. Students will continue to learn and advance their careers through participation in professional activities, attainment of professional certification and seeking advance studies.
3. Students will be able to demonstrate a commitment to life-long learning.
4. Students will be ready to serve society in any manner and become a responsible and aware citizen.
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.

MESSAGE FROM CHAIRMAN

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 Saran)

Shri Vishnu Sharan

MESSAGE FROM DIRECTOR

I congratulate CSE department on the 13th issue 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. Arun V. Parwate)

Prof. Arun V. Parwate

MESSAGE FROM HEAD

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.

(M.I.H. Ansari)

Prof. M.I.H. Ansari

BOOK CHAPTERS

Ms. Shweta Paliwal

A Book Chapter Published by Ms. Shweta Paliwal, Assistant Professor, Computer Science & Engineering, MIET, Meerut

Ms. Shweta Paliwal, Assistant Professor, Department of Computer Science & Engineering, has published a book Chapter on "Dynamic Strategies of Machine Learning for Extenuation of Security Breaches in Wireless Sensor Networks", in a book titled "Advances in Computing Communications and Informatics Blockchain Applications for Secure IoT Frameworks: Technologies Shaping the Future", (2021) 22-44 (23) in Bentham Science Publisher, Online ISSN: 2737-5730,

https://doi.org/10.2174/9781681088624121010004

A Book Chapter published by Dr. Mukesh Rawat (Professor), Mohd Hamzah Siddiqui (Student), Mohd. Anas Maan (Student), Shashaank Dhiman (Student), & Mohd Asad (Student), Computer Science & Engineering, MIET, Meerut

1. **Dr. Mukesh Rawat (Professor),** Mohd Hamzah Siddiqui (Student), Mohd. Anas Maan (Student), Shashaank Dhiman (Student), & Mohd Asad (Student), Department of Computer Science & Engineering, has published a book Chapter on "Text Summarization Using Extractive Techniques", in a book titled "Process Mining Techniques for Pattern Recognition", (2022) 107-119 (13) in Taylor & Francis Publisher, e-book ISSN: 9781003169550.

https://www.taylorfrancis.com/chapters/edit/10.1201/9781003169550-9

Dr. Mukesh Rawat

BOOK CHAPTERS

A Book Chapter Published by Ms. Ayushi Prakash (Assistant Professor), Dr. Mukesh Rawat (Professor), Computer Science & Engineering, MIET, Meerut

2. Ms. Ayushi Prakash (Assistant Professor), **Dr. Mukesh Rawat (Professor)** Published a Book Chapter , Department of Computer Science & Engineering, has published a book Chapter on "Design and Implementation of Novel Techniques for Content-Based Ranking of Web Documents", in a book titled "Process Mining Techniques for Pattern Recognition", (2022) 35-45 (11) in Taylor & Francis Publisher, e-book ISSN: 9781003169550.

https://www.taylorfrancis.com/chapters/edit/10.1201/9781003169550-3

A Book Chapter Published by Ms. Shivi Panwar (Student), Dr. Vimal Kumar (Associate Professor), Computer Science & Engineering, MIET, Meerut

1.Ms. Shivi Panwar (Student), **Dr. Vimal Kumar (Associate Professor),** Department of Computer Science & Engineering, has published a book Chapter on "Optimizing Web Page Ranks Using Query Independent Indexing Algorithm", in a book titled "Process Mining Techniques for Pattern Recognition", (2022) 19-34 (16) in Taylor & Francis Publisher, e-book ISSN: 9781003169550.

https://www.taylorfrancis.com/chapters/edit/10.1201/9781003169550-2

Dr. Vimal Kumar

RESEARCH PAPERS

A Research Paper is published by Ms. Pooja Gupta (Student), Dr. Vimal Kumar (Associate Professor), Computer Science & Engineering, MIET, Meerut

2. Ms. Pooja Gupta (Student) , **Dr. Vimal Kumar (Associate Professor)**, Department of Computer Science & Engineering, has published a research article on "Student's Perception towards Mobile learning using Internet Enabled Mobile devices during COVID-19", in a "EAI Endorsed Transactions on Industrial Networks and Intelligent Systems", pp 1-17 (17) (2021)Volume 8 | Issue 29 | e1.

https://eudl.eu/pdf/10.4108/eai.16-9-2021.170958

A Research Paper is Published by Ms. Avni Singhal (Student), Dr. Vimal Kumar (Associate Professor), Computer Science & Engineering, MIET, Meerut

3. Ms. Avni Singhal (Student), **Dr. Vimal Kumar (Associate Professor),** Department of Computer Science & Engineering, has published a research article on "Detection of Diabetic Retinopathy using Machine Learning ", in "Natural Volatiles & Essential Oils Journal", 2021 8(5): pp 2561-2574 (14).

http://nveo.org/index.php/journal/article/view/810/740

A Research Paper is Published by Ms. Pooja Baliyan (Student) , Dr. Pradeep Pant (Professor), Mr. Baldivya Mitra (Assistant Professor), Dr. Vimal Kumar (Associate Professor), Computer Science & Engineering, MIET, Meerut

Ms. Pooja Baliyan (Student) , **Dr. Pradeep Pant (Professor),** Mr. Baldivya Mitra (Assistant Professor), Dr. Vimal Kumar (Associate Professor), Department of Computer Science & Engineering, has published a research article on "Hybrid Classification Method for Sentiment Analysis", in ``Natural Volatiles & Essential Oils Journal", 2021 8(5): pp 1844-1854 (11).

https://www.nveo.org/index.php/journal/article/view/665/614

Dr. Pradeep Pant

Department Publications

A Research Paper is Published by Ms. Aayushi Agarwal (Student) , Mr. MD Iqbal (Associate Professor), Mr. Baldivya Mitra (Assistant Professor), Dr. Vimal Kumar (Associate Professor), Computer Science & Engineering, MIET, Meerut

1. Ms. Aayushi Agarwal (Student) , **Mr. MD Iqbal (Associate Professor),** Mr. Baldivya Mitra (Assistant Professor), Dr. Vimal Kumar (Associate Professor), Department of Computer Science & Engineering, has published a research article on "Hybrid CNN BILSTM- Attention Based Identification and Prevention System for Banking Transactions", in "Natural Volatiles & Essential Oils Journal", 2021 8(5): pp 2552-2560(9).
https://www.nveo.org/index.php/journal/article/view/809/739

Mr. MD Iqbal

A Research Paper is Published by Mr. Saurabh Mittal (Student) , Mr. MD Iqbal (Associate Professor), Computer Science & Engineering, MIET, Meerut

2. Mr. Saurabh Mittal (Student), **Mr. MD Iqbal (Associate Professor),** Department of Computer Science & Engineering, has published a research article on "Diagnosis of Plant Leaf Diseases used in Image Processing", in Natural Volatiles & Essential Oils Journal", 2021 8(5): pp 1566-1574(13).

https://www.nveo.org/index.php/journal/article/view/3812/3117

A research paper is published by Prof. M I H Ansari, Professor, Department of Computer Science & Engineering, MIET, Meerut, along with co-authors.

Jitendra Kumar, Vinay Rishiwal, **Mohammad Izharul Hasan Ansari**, published a research article on "Energy Efficient Routing Technique and QoS provisioning for Heterogeneous Wireless Micro-Sensor Networks", volume - 8, Issue - 6, pp 801-826 in International Journal of Webology (Publisher: Webology Center) (Indexed: SCOPUS)

http://webology.org/abstract.php?id=1674

Prof. MIH Ansari

Faculty Development Program

Increasing internationalization in teaching is strongly supported by the Indian education sector and is considered vital for Indian institutions in developing India's capacity in research and innovation, driving up India's institutional ranking and increasing the quality of teaching and learning. Thus, enhancing the academic and intellectual environment in the institutions by providing faculty members with ample opportunities to pursue research and also to participate in seminars / conferences / workshops has become vital for developing nations like India. Participation in such programs would enable faculty members to update their research and pedagogical skills. Higher education institutions are starting to adapt and respond to professionals already in employment, mature learners and the demand from students enrolled for skills for employability programs. With the aim of equipping faculty members with required skills and knowledge, MIET Meerut pursues the Faculty Development Program as its primary objective.

Mrs. Anjali Sharma, Assistant Professor, Department of Computer Science and Engineering Completed Faculty development Program on Deploying Deep Learning Applications from 22 December to 24 December 2021 organized by Intel.

Mrs. Anjali Sharma

Dr. Shishir Rastogi, Associate Professor, Department of Computer Science and Engineering Completed Faculty development Program on Teaching-Learning Process to Enhance Program Outcomes from 29 November to 3 December 2021 organized by NITTTR Chandigarh under AICTE Margdarshan Scheme.
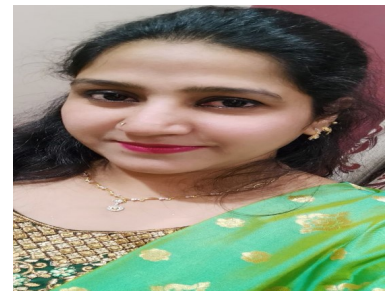

Dr. Shishir Rastogi Shar-

Faculty Development Program

Dr. Shishir Rastogi, Associate Professor, Department of Computer Science and Engineering Completed Faculty development Program on Deploying Deep Learning Applications from 22 December to 24 December 2021 organized by Intel.

Dr. Shishir Rastogi

Mrs Nighat Naaz Ansari, Assistant Professor, Department of Computer Science and Engineering Completed Faculty development Program on Deploying Deep Learning Applications from 22 December to 24 December 2021 organized by Intel.

Mrs. Nighat Naaz Ansari

Student Achievements

SHIVAM (CS, 4TH YEAR) HAS BEEN REWARDED WITH INCENTIVE AND GOODIES ON COMPLETING INTERNSHIP AT VANIJYA TECHNOLOGY.

Mr. Shivam (B.Tech. CS&E) 4th year, rewarded with incentive and Goodies

Mr. Shivam (B.Tech. CS&E) 4th year, has been rewarded with incentive on successfully completing his internship at VANIJYA Technology, Honorable Vice Chairman Shri. Punit Agrwal congratulated and expressed his best wishes for his bright future and career.

Student Achievements

Mr. Prashant Verma, B.Tech. (CS&E-2nd Year)
Book Published and started a Startup

This is a matter of great honor and pride that one of our 2nd Year Student Mr. Prashant Verma has published his first book on Cyber Security. The title of the book is "HACK-The Trap of Hacker" authored by Mr. Prashat Verma, and published by Dream Publisher, Kolkata.

In addition to that he has also started a startup in the field of Cyber Security. He said that in today's scenario to ensure privacy and to keep the data secure is one of the challenging tasks. Therefore, he has started his startup to provide Cyber Security solutions and also spread awareness to the general public that how they can keep their data safe and secure. The name of his company is PVHKR and at present he is working from Meerut. The website of the company is www.pvhkr.tech and he may be contacted at contact@pvhkr.tech.

Prof. Mayank Garg, Executive Director, Meerut Institute of Engineering & Technology, Meerut, Prof. Arun Parvate, Professor & Head (Civil Engineering), Dr. Amit Ahuja, Associate Professor (Electronics & Communication Engineering) and Prof. M I H Ansari, Professor & Head (Computer Science & Engineering) congratulated him on publishing his first book at this young age and starting his startup in the field of Cyber Security.

All the faculty members of Computer Science & Engineering appreciated his efforts and expressed their best wishes for his future endeavors.

Further, Prof. Ansari assured him that the department is always ready to provide best possible support, and guidance on behalf of the department and Institute.

ICACFCT 2021

First International Conference on Advances in Computing and Future Communication Technologies
(ICACFCT-2021) (http://miet.ac.in/icacfct2021)
IEEE Conference Record Id: #53978

Organizer(s)	Technically Co-Sponsored By	Supported By

Date: 16ᵗʰ-17ᵗʰ December 2021

Venue: Meerut Institute of Engineering & Technology, Meerut, U.P., India

About The Event

The First IEEE International Conference on "Advances in Computing and Future Communication Technologies (ICACFCT-2021)" will be held at Meerut Institute of Engineering and Technology, Meerut India on 16-17 December 2021. The two-day conference will include invited keynote and oral presentations. ICACFCT-2021will provide a forum for researchers and engineers in both academia and industry to exchange the latest innovations and research advancements in Advances in Computing and Communication Engineering, ICACFCT-2021 also provides the attendees the chances to identify the emerging research topics, as well as the future development directions. Prospective authors are invited to submit full (original) research papers, which are NOT submitted or published or under consideration anywhere in other conferences or journals.Accepted and presented papers which are plagiarism free and registered by at least one author, will be submitted for possible inclusion into IEEE Xplore® digital library.

ICACFCT 2021 Speakers

First International Conference on Advances in Computing and Future Communication Technologies
(ICACFCT-2021) (http://miet.ac.in/icacfct2021)
IEEE Conference Record Id: #53978

Organizer	Technically Co-Sponsored By	Supported By
MIET	IEEE UP SECTION (INDIA)	ACIC MIET Meerut Foundation

Date: 16th-17th December 2021

Venue: Meerut Institute of Engineering & Technology, Meerut, U.P., India

Speakers

Col. B. Venkat
Director
AICTE

Dr. Sri Niwas Singh
Professor
IIT, Kanpur

Dr. Satish Kumar Singh
Chairman
IEEE UP Section

Dr. Subodh Wariya
Dean UGSE
AKTU, Lucknow

Dr. Asheesh Kumar Singh
Professor
MNNIT, Allahabad

Dr. R.N. Sahoo
Principal Scientist,
Division of Agricultural Physics,
IARI, New Delhi

Dr. V.S Tripathi
Professor
MNNIT, Allahabad

Dr. G.P. Sahu
Professor
MNNIT, Allahabad

Mr. Ramanan R.
First Mission Director
AIM, NITI Aayog

Mr. Muthu Singaram
CEO, HTIC
IIT, Madras

Dr. Sandeep Agrawal
Business Development Manager
TCS

Top 10 Competitive Coding Website

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	Reply Challenges	https://challenges.reply.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/

INSTITUTE ACTIVITIES

Campus my city अमर उजाला | बृहस्पतिवार • 16.09.2021 | 05

जीवन में रचनात्मक बदलाव लाते हैं इंजीनियर्स

इंजीनियर्स डे : विभिन्न संस्थानों और स्कूल-कॉलेजों में हुए कार्यक्रम

माई सिटी रिपोर्टर

मेरठ। मेरठ। एमआईईटी के विभिन्न इंजीनियरिंग विभागों के विभागाध्यक्ष एवं इंजीनियरिंग शिक्षकों ने इंजीनियर्स डे धूमधाम से मनाया।

कार्यक्रम में विभागाध्यक्ष डॉ. अरुण ने महान इंजीनियर सर एम. विश्वेश्वरैया के जीवन पर प्रकाश डाला। डॉ. अमित कुमार आहूजा ने कहा कि इंजीनियर्स को ही मानव जीवन में रचनात्मक बदलाव का श्रेय जाता है।

इस दौरान एमआईईटी के चेयरमैन विष्णु शरण, वाइस चेयरमैन पुनीत अग्रवाल, डायरेक्टर डॉ. मयंक गर्ग, प्रो. अमित कुमार आहूजा, सिविल इंजीनियरिंग विभागाध्यक्ष डॉ. अरुण

एमआईईटी में दीप जलाकर कार्यक्रम का हुआ शुभारंभ। संवाद

पर्वरते, मैकेनिकल इंजीनियरिंग विभागाध्यक्ष डॉ. सिद्धार्थ जैन ने कार्यक्रम का शुभारंभ दीप प्रज्जवलित करके किया।

छोटूराम में भावी इंजीनियर्स ने दिखाई प्रतिभा

मेरठ। सर छोटूराम प्रौद्योगिकी संस्थान में अभियंता दिवस पर ऑनलाइन कार्यक्रम अपना टैलेंट का कुम्भार की आगाज हुआ। शुभारंभ सर छोटूराम इंजीनियरिंग कॉलेज के निदेशक प्रो. जयमाला ने किया। विवि के कुलपति एनके तनेजा, प्रति कुलपति प्रो. वाई विमला, डीन प्रो. हरे कृष्णा ने छात्रों का उत्साहवर्धन किया। कार्यक्रम में 300 से भी ज्यादा छात्र-छात्राओं ने भाग लिया। बृहस्पतिवार को कवि सम्मेलन, स्टार्टअप कार्यक्रम होंगे। आयोजन डॉ. पंकज कुमार द्वारा किया गया। डॉ. मानव बंसल, अर्पित छाबड़ा, विजय गुप्ता, हरी गोयल का सहयोग रहा। आकाश त्रिपाठी, प्रिया डा, कोमल चौधरी, स्वीट तिवारी, इशिका यादव, वैभव पांडेय और अर्पित रस्तोगी मैज्यूट रहे। न्यूरो

Celebration of Engineer's Day on 15 September 2021 at Meerut Institute of Engineering & Technology, Meerut.

Teacher's Day Contest Winner

Ms. Shivani Trivedi Assistant Professor, Department of CSE win the Teacher Day Contest 2021 for her dedication.

INTERNSHIP DAY 2021

INTERNSHALA

Internship Day 2021

Ranking report of

Meerut Institute of Engineering and Technology

92

All India Rank

Out of 1530+ participating colleges across India

36

Zonal Rank

Out of 343 participating colleges across North Zone

ⓘ The rankings are based on student selections from 1st April'21 to 31st July'21

Congratulations Prof. SHAILENDRA SINGH for building a meaningful internship culture in your college!

Mr. Shailendra Singh, Assistant Professor, Department of CSE build a meaningful internship culture in MIET. MIET ranking published on internship day 25th August 2021 by IN-TERNSHALA.

PLACEMENT

miet

Apoorv Garg

Package
22 LPA

CSE Department
Batch 2017-2021

Congratulates

Bright MIETian
for being placed in

aws

Amazon Services (SDE)

We are proud of you...

Akansha Agarwal
Director (Training & Placement Department)
MIET Meerut

एमआईईटी के 15 छात्रों का लंदन की कंपनी ड्योलाइट में चयन

दिनकर टाइम्स न्यूज

मेरठ। एमआईईटी ग्रुप के छात्र-छात्राओं को कोरोनाकाल में भी बेहतर प्लेसमेंट मिलने का सिलसिला जारी है। रोजगार के क्षेत्र में मंदी के दौर में एमआईईटी कॉलेज ने बहुराष्ट्रीय कम्पनियों में प्लेसमेंट का कीर्तिमान स्थापित किया है। इसी क्रम में लंदन की अंतरराष्ट्रीय कंपनी ड्योलाइट में एमआईईटी के 15 छात्र-छात्राओं का चयन हुआ है।

इस चयन प्रक्रिया में सहयोगी कंपनी की तरफ से एचआर ने अपने सहयोगी टीम के साथ लिखित एवं मौखिक परीक्षा के साथ-साथ साक्षात्कार के द्वारा छात्रों की प्रतिभा का परीक्षण किया। अंत में ऑनलाइन एचआर इंटरव्यू के बाद बीटेक कम्प्यूटर साइंस इंजीनियरिंग का 8 लाख वार्षिक पैकेज पर फाइनल चयन किया गया। वाइस चेयरमैन पुनीत अग्रवाल ने कहा की

एमआईईटी अत्याधुनिक और दुनिया की नई टेक्नोलॉजी अपना कर ऐसे इंजीनियर और अन्य प्रोफेशनल्स तैयार कर रहा है। इस मौके पर चेयरमैन विष्णु शरण,

डायरेक्टर डॉ मयंक गर्ग, प्लेसमेंट डायरेक्टर आकांक्षा अग्रवाल, प्लेसमेंट ऑफिसर नवीन कौशिक, शैलेंद्र कुमार सिंह, आयुषी प्रकाश आदि ने बधाई दी।

PLACEMENT

miet
GROUP OF INSTITUTIONS

STUDENTS PARTICIPATION IN INSTITUTE ACTIVITIES

Celebration of Rangotsav on 3rd December 2021 at Meerut Institute of Engineering & Technology, Meerut