



**INTERNATIONAL CONFERENCE
ON
RECENT ADVANCEMENTS IN SCIENCE, MANAGEMENT,
ENGINEERING AND TECHNOLOGY' 2024**

RASMET'24



18th & 19th April 2024



Hybrid Mode

Organized by

DMI Approved by AICTE | Affiliated to Anna University, Chennai
NBA Accredited Programmes | ISO Certified Institution
COLLEGE OF ENGINEERING

AN AUTONOMOUS INSTITUTION

NH-48, Palanchur, Nazarethpet Post, Chennai, Tamil Nadu - 600 123.





ABOUT DMICE



DMI College of Engineering is a Christian Minority Institution of Higher Technical Education, approved by All India Council for Technical Education [AICTE], Government of Tamilnadu and affiliated to Anna University, Chennai. The College is promoted and managed by the Sisters of the Society of DMI, which was founded in the year 1984 by Rev.Dr.Fr.J.E.Arulraj. The vision of this Institution is to provide a discipline life with a spiritual base to remain 'fully alive and fully human'. Further, it strives to achieve excellence and provides opportunities to the students to achieve technical excellence.

Highlight about the college:

- B.E- CSE, ECE and Mech programmes are accredited by National Board of Accreditation.
- Well Qualified and experienced faculty members, More than 30 % of faculty members are Ph.D. degree holders.
- Received award from All India Council for Robotics & Automation (AICRA) for best technology infrastructure of the year 2022.
- MoUs signed with more than 15 organizations, like All India Council for Robotics and Automation (AICRA), Galaxy Training Academy , Future Focus , New Technology , Tata Community Services for industry institution interaction and to enrich the practical knowledge of the students.
- More than 90% of students are placed through Campus recruitments with average salary package of 4 LPA, and highest salary package of 16 LPA.
- Received Funded Project for the worth of Rs 61 Lakhs, during the academic year 2021- 22 from the Department of Science and Technology(DST), Government of India.

Vision

To become an internationally reputed institution by producing competent professionals with exemplary skills and ethical values.

Mission

- To achieve higher level technological and professional excellence.
- To impart quality and holistic professional education.
- To train professionals to be entrepreneurs and employment generators.



ABOUT THE DEPARTMENTS

Artificial Intelligence and Data Science

The disruptive breakthroughs of this century have been made possible by AI and Data Science, two major enablers. These new technological revolutions have changed the way we work and live. DMI, Chennai opens a new department called "Artificial Intelligence and Data Science" on June 1st, 2021. The department's dedication to excellence in the study, creation, and use of cutting-edge, next generation technologies in the fields of data analytics and artificial intelligence will serve as its main motivator. Our goal is to foster industry-academia partnerships, promote cross domain collaboration in research, and prepare our personnel to contribute to multidisciplinary project by using developed technologies in practical ways. The distinctive B.Tech. Artificial Intelligence and Data Science (AI & DS) undergraduate curriculum seeks to provide students with the technological Know-how to handle data processing, analysis and visualization for a variety of real-time uses.

Computer Science and Engineering

The Department of Computer Science and Engineering was started in the year 2001 with an intake of 60, with an objective of imparting quality education in the Computer Science and Engineering. Because of the growing trend, the strength has been further increased to 120 in the year 2006. The Department is also offering M.E Programme in Computer Science and Engineering. The Department is equipped with state of art computer laboratories and internet facilities. The Department library is equipped with more than 1000 books and journals covering all areas of Computer Science. The Department is accredited by NBA in the year 2009 and recredited in the year 2018, accreditation is valid up to 2025.

Electronics and Communication Engineering

The Department of Electronics and Communication Engineering was established in the year 2001 with an intake of 60 students. The department offers a four-year B.E degree programme in Electronics and Communication Engineering and a full-time two-year M.E. degree programme in Communication Systems. B.E. (ECE) has been accredited by the National Board of Accreditation (NBA) since 2018 for its excellence. The Department includes well-equipped laboratories, a Computer Centre and a library. The department is fortified with highly qualified and influential faculty members with extensive teaching experience. To get insight into the practical scenario in technology, we arrange various industrial visits and guest lectures for the students. Apart from the regular curriculum, the Department offers value-added courses such as industrial automation, robotics and IOT, and we have department club activities such as Electronics club and Go green club to improve the students' potential by conducting various technical and nontechnical events.

Electrical and Electronics Engineering

The Department of Electrical and Electronics Engineering was established in the year 2002. The department offers a four year B.E degree programme in Electrical and Electronics Engineering and PG programme in Power Electronics and Drives. The department provides depth of knowledge across the key areas of Electrical and Electronics Engineering that evolve with societal needs. The faculty members of the department are dedicated and well experienced in different fields of specialization. The department has excellent laboratories such as Electrical machines, Control Systems, Power Electronics, Power System Simulation, Renewable energy systems with modern equipments as per curriculum.

Information Technology

The Department of Information Technology was established in the year 2001 with an intake of 60 students to offer four-year B.Tech. degree programme. The Department accommodates well-equipped laboratories, and a department library with books on current trends in information Technology. The department has a strongfold of highly qualified and specialized faculty members with an extensive teaching experience and specialization in Data mining, Computer Networks, Soft Computing, Evolutionary Computing, Cyber Security, Digital Signal Processing, Big Data Analytics, Image Processing, Cloud Computing and Mobile Computing. To get latest insights into the current scenario in Information Technology, the department arranges various industrial visits, guest lectures, Hands-on- Training and specific training for paid Internships and Internships in well established software industries. Apart from the regular curriculum, the Department offers value-added and job-oriented courses such as Artificial Intelligence, Data Science, Mobile App Development. The intensive motivation for our students make register for the latest and relevant NPTEL courses. In-line with the latest guidelines of AICTE the department has strengthened the club activities such as Data Science club and AppDevelopment club to focus on innovations and allow the students to complete autonomy in designing innovative patents.

Mechanical Engineering

The Department of Mechanical Engineering is established as a full-fledged department offering B.E Mechanical Engineering (2009), M.E Thermal Engineering (2021) and Ph.D (2023). The Department is Accredited with NBA. The Department has excellent infrastructure facilities in keeping with latest trends and requirements and well reputed faculty members. It aims at preparing the students to face the challenge of the materially-conscious and technologically fast-developing world. It means to transform the students into young engineers with sound technical knowledge, leadership skills and decision-making abilities. The Department periodically conducts Guest lectures, Industrial visits, Symposiums, Seminars etc. through its parent body "Association of Radiant Mechanical Youngsters (ARMY)" for the benefit of students. The efforts of our committed faculty members are really towards producing the students with excellence in knowledge and character. The department periodically organizes conferences, FDPs, workshops, hands-on training and value-added courses in coordination with AICTE, ISTE, Anna University, SAE, TEDA and reputed industries etc., for the benefit of both the academic and industrial community.

Master of Business Administration

The Department of Management Studies was established in 2020 to accommodate the popular Master in Business Administration course (MBA). The program's objective is to impart management education in the state of the art technology to enable the students to optimally equip themselves with the changing requirements of the corporate and society. Eminent and experienced faculty enables the students to acquire various technical skills and value-focused decision-making ability.

Science and Humanities

DMI College of Engineering, Chennai has established Science and Humanities Department in the year 2001 with proficient faculty members. It was initiated with the aim of providing a strong foundation in basic science and communication. It enables the students to be a competent Engineers. The S & H block comprised of four departments such as Physics, Chemistry, Mathematics and English. The prime focus of the department is to provide a conceptual base in basic science which form a foundation to the Engineering subjects. The Department encourages the conduction of Workshops and Seminars which enables the faculty members to have proficiency in the respective fields of research. Considering the swift knowledge development and the technological changes, the Department seeks to intensify itself by systemizing it with the Engineering Departments for a profound knowledge in their respective fields.



ABOUT THE CONFERENCE

Recent Advancements in Science, Management, Engineering and Technology' 2024 (RASMET' 24) is the conference being organized by DMI College of Engineering with participants from around the world. The main objective of RASMET' 24 is to create an intellectual forum for researchers, academicians, industry experts, research aspirants, and students of Engineering and Technology to present their latest findings and innovations. Additionally, it aims to be an international conference with a focus on developing world aspects in communications, computer science, information technology, mechanical, and electrical engineering. The conference's overarching goals include providing a platform for high-quality research and facilitating professional interactions to advance science and technology. RASMET' 24 will offer a platform for all participants to showcase their recent research findings, propelling their careers forward significantly. It motivates students, researchers, and industrialists to develop efficient technologies that reduce time and cost while increasing efficiency, contributing to a sustainable world of excellence. Conference participants will have the opportunity to publish their articles in reputable journals of global significance. This conference is substantial enough to provide participants with an unprecedented focus on the multidisciplinary engineering domain.

THRUST AREAS

The topics of the conference include, but not limited to:

CSE, IT, AI&DS

- Cloud computing
- Data mining for Education
- Quantum computing
- Cybersecurity
- 5G Technologies based systems
- Artificial Intelligence, Deep learning
- Blockchain Technology, Virtual reality
- Human-computer interface
- Distributed computing, Data mining
- Natural language processing

ECE & EEE

- Nanotechnology, Green Electronics
- Embedded systems
- Antenna and Microwave Engineering
- Image and Signal Processing
- Internet of Things
- Electric vehicles, Renewable energy
- Deregulated power systems & smart grid
- PLC, SCADA and IOT based systems
- Soft computing & optimization techniques
- Power Electronics and drives

MECHANICAL

- Design
- Thermal systems
- Material Science
- Manufacturing
- Automobile
- Composite Material
- Renewable Energies
- Refrigeration and Air Conditioning
- Alternative Fuel
- Industrial Engineering
- Additive Manufacturing
- Robotics
- Mechatronics
- Surface Engineering
- Welding Technology

S&H

Physics:

- Astrophysics
- Biophysics
- Nuclear Physics
- Quantum Physics
- Optics
- Materials etc.

Maths:

- Algebra
- Geometry,
- Trigonometry,
- Probability
- Statistics
- Precalculus
- Differential and Integral
- Multivariable Calculus
- Recreational Math etc.

Chemistry:

- Analytical Chemistry
- Biochemistry
- Inorganic Chemistry
- Organic Chemistry
- Physical Chemistry

English:

- (All Areas)

MBA

- Human Resource Management.
- Marketing Management.
- Financial Management.
- Operations Management.
- Strategic Management.
- General Management.
- Disaster Management.
- Entrepreneurship Development



COMMITTEE MEMBERS

RASMET'24

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Founder & Chairman, DFT Group of Institutions

Patron

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Dr.Magesh Murugesan, Scientist, Capesym Inc, Natick, Massachusetts, United States of America.
Dr.M.K. Marchewka, Institute of Low Temperature and Structure Research, Polish Academy of Sciences, Poland.
Dr.Balasubramanian Ravindran, Professor, Kyonggi university, Republic of Korea.
Dr.J. Janczak, Institute of Low Temperature and Structure Research, Polish Academy of Sciences, Poland.
Dr. Quanxian Zh, Professor, Hunan Normal University Hunan, China.
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Dr.Faisal P Mohamed, Senior Lecturer in Electrical Engineering, Military Technological College, Muscat, Sultanate of Oman.

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Dr.S.Chandrasekar, Scientific Officer, Indira Gandhi Centre for Atomic Research, Kalpakkam.
Dr.S.Suresh, University College of Engineering, Nagercoil.
Dr.G.Hariharan, University College of Engineering, Nagercoil.



MANUSCRIPT SUBMISSION

Original manuscripts are invited from Students, Research Scholars, Academicians and Industrialists on the topic "Recent Advancement in Science, Management, Engineering and Technology" related to all disciplines.

Paper Format : As per the Web of Science format.

FULL PAPER

One copy of manuscript prepared in MS Word should be sent to rasmet@dmice.ac.in. The selection of the paper will be intimated to authors through registered e-mail. One softcopy (PDF/Doc) of the final manuscript should be submitted along with the registration form. All the papers will be published in the conference proceedings. Peer reviewed selected papers will be published in the referred journals. Please visit www.dmice.ac.in for downloading registration form / copyright form / declaration form for journals.



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CORRESPONDANCE ADDRESS

The Convener, RASMET' 24

DMI COLLEGE OF ENGINEERING

Palanchur, Nazerthpet Post, Chennai 600 123.

Ph.No: +91 44 2681 4542, 2681 3641

Web: www.dmice.ac.in

Email: rasmet@dmice.ac.in

How to Reach?

Puratchi Thalaivar Dr. M.G. Ramachandran Central Railway Station (Chennai), Kannappur Thidal, Periyamet, Chennai, Tamil Nadu 600003

Walk
190 m (3 minutes)

Puratchi Thalaivar Dr.M.G.Ramachandran Central (Platform 2)

SCC-SAP towards Airport

Puratchi Thalaivi Dr. J. Jayalalithaa CMBT

Walk
290 m (4 minutes)

C.M.B.T

553W towards Sriperumbudur

Queens Land

Walk
450 m (6 minutes)

DMI College of Engineering, NH-48, Palanchur – Nazarethpet Post, opp. Queens Land, Chennai, Tamil Nadu 600123

<https://maps.app.goo.gl/H5QvgK9BDoDmuxh39>



Scan Me



Department of CSE

Dr.D.RAVIKUMAR, AsP/CSE
+91 - 95000 40426

Department of IT

Mrs.S.P.SUBHA, AP/IT
+91 - 95972 35393

Department of ECE

Dr.C.K.MORARJI, AP/ECE
+91 - 99421 21186

Department of AI & DS

Mrs.J.MARY VARSHA, AP/AI&DS
+91 - 82709 71631

Department of EEE

Mr.G.CHANDRAN, AP/EEE
+91 - 99524 40023

Department of MBA

Ms.S.GAYATHRI, AP/MBA
+91 - 86680 40323

Department of MECH

Mr.G.TAMIL KUMARAN, AP/MECH
+91 - 98846 70312

Department of S&H

Dr.V.ANBARASAN, AP/S&H
+91 - 90039 55707



REGISTRATION FEE DETAILS

Category of the Participants & Registration Fee (INR)

UG & PG Students : Rs.1000/-

Research Scholars & Faculty Members : Rs.1500/-

Industrialists : Rs.2000/-

BANK ACCOUNT DETAILS

Bank Name : Union Bank of India

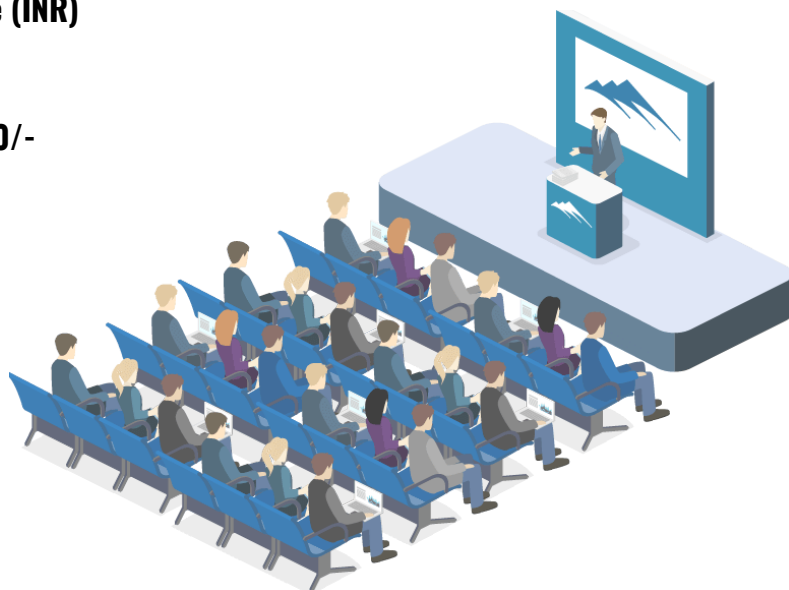
Account Name : DMI College of Engineering

Account Number : 551901010050528

IFSC Code : UBIN0555193

Branch : Porur

Country : India



NOTE: Pay Online NEFT / RTGS / IMPS mode transfer in our above given account and making online payment only.

ONLINE REGISTRATION

First make a payment through online mode. After the successful of your payment take screenshot with transaction id and you are requested to fill and submit the online registration form with the attachment of payment screenshot through the given link and confirm your participation in the conference.

Pre-Registration Google Form Link:

<https://forms.gle/ZS6futexegVAR21Sn9>



IMPORTANT DATES

**SUBMISSION
OF
ABSTRACT
8.3.2024**

**SUBMISSION OF
FULL
MANUSCRIPT
5.4.2024**

**ACCEPTANCE
NOTIFICATION
10.4.2024**

**CONFERENCE
DATE
18.4.2024
&
19.4.2024**