

11th National Conference on
Recent Developments in Mechanical Engineering (RDME-2025)
[7th -8th April, 2025]

Conference Closing Report

The 11th National Conference on '**Recent Developments in Mechanical Engineering**' RDME-2025 was organized by the Department of Mechanical Engineering on 7th and 8th April, 2025 in hybrid mode. There has been an overwhelming response to the call for papers of the 11th National Conference RDME-2025. This 11th conference is unique in many aspects as compared to other conferences. We have received a total 47 registration from every corner of India. We have received registration from both private universities as well as central universities like NIT etc. This overwhelming participation has made this conference a vivid group of UG, PG, Research student, Faculties, and Industry persons. The selected quality papers after peer review are published in International Journal of Advanced Research in Science, Communication and Technology (IJARSCT) with indexing and abstracting in CrossRef, Google Scholar, Academia, Infobase, ABCD, ResearchGate.

Conference Inaugural Function was arranged on 7th April, 2025 , at 10.00 am in offline mode. Welcome Address given by **Dr. B. D. Nandre** and details about RDME 2025. Afterward HoD of the mechanical department, **Dr. V. N. Raibhole** highlighted a brief history about RDME, followed by addressing the I/C Principal, **Dr. M. P. Dale** the importance of paper writing. **Mr. Vijaykumar Hippargi**, Retd. DGM, Tata Motors Ltd, Pune, invited as **Chief Guest** by his hands Unveiling of Souvenir of RDME 2025 followed with Keynote Session on automotive sector advancement in Tata Motors. Afterwards vote of thanks given by **Dr. R. N. Yerrawar** and followed by Group Photo Session carried out.

The paper presentation sessions were started at 5 different sessions offline with the following eminent session chairs.

Program Outcome and justification

Program Outcome	Justification	Mapping
PO1: Engineering Knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.	Apply fundamental concepts for designing and manufacturing of product/ system in their research work.	1
PO2: 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.	Apply problem analysis techniques for formulating problem statement, objectives and literature review in their research work.	3
PO3: 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.	Apply design and development concepts for designing product/ system in their research work.	2
PO4: 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.	Used advanced problem solving techniques aligned with previous researchers work for solving current research problems.	2
PO5: 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.	Used IT tools studied during process for modelling and simulation of product/ system.	2
PO6: 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.	Based on research problem developed system/ product which will help to solve society problems.	2

<p>PO7: Environment & Sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.</p>	<p>Taken care of environment while using materials for developing research prototype.</p>	<p>2</p>
<p>PO8: Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.</p>	<p>Followed ethics and rules during publication and citing references.</p>	<p>3</p>
<p>PO9: Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.</p>	<p>Individual work carried out to solve research problem by taking help from various industries/ different organizations.</p>	<p>2</p>
<p>PO10: 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.</p>	<p>Communicate research work through research paper publication, presentation and thesis work to society.</p>	<p>3</p>
<p>PO11: 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.</p>	<p>Effectively optimize cost for developing research work system/ product.</p>	<p>2</p>
<p>PO12: 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.</p>	<p>Research papers published will be used to society for solving upcoming real time problems.</p>	<p>3</p>

Session Chair Invited

Sr. No	Name of session chair	Institute
1	Mr. Vijaykumar Hippargi	Retd. DGM, Tata Motors Ltd, Pune
2	Dr. Atul Patil	Professor, Mechanical Engineering Department, Dr. D. Y. Patil Institute of Technology, Pimpri, Pune
3	Dr. N. D. Pagar	Associate Professor, MIT ADT University Loni Kalbhor Pune
4	Dr. A. D. Patange	Data Science & AI Specialist, ABB Global Industries and Services Private Limited Bangalore, India
5	Dr. P. R. Sonawane	Associate Professor, Mechanical Engineering Department JSPM's Rajarshi Shahu College of Engineering Tathawade Pune.

Advisory Board

- **Dr. P. A. Patil** (BoS Chairman, SPPU, Pune)
- **Dr. S. N. Sapali** (Principal, NMIET, Talegaon)
- **Dr. S. S. Pardeshi** (Former BoS Chairman, SPPU, Pune)
- **Dr. N. K. Chougule** (HOD, COEP Technological University)
- **Dr. G. S. Modak** (BoS Member, SPPU, Pune)
- **Dr. A. P. Pandhare** (BoS Member, SPPU, Pune)
- **Dr. G. R. Desale**, (Prin. Scientist, NCL, Pune)
- **Dr. N. S. More**, (Scientific Officer, NPCIL, Mumbai)
- **Dr. Venkatachalam G.** (Professor, Vellore Institute of Technology, Chennai)
- **Dr. R. S. Jha** (Head of Innovation, Thermax Ltd., Pune)
- **Dr. A. M. Funde** (Assist. Prof. Center for Energy Studies, SPPU, Pune)

Souvenir of RDME 2025



Souvenir of
11th National Conference on
**Recent Developments in Mechanical
Engineering**, (RDME-2025)

April 7-8, 2025

Organized by
Department of Mechanical Engineering

Modern Education Society's

Wadia College of Engineering, Pune

[Accredited by NAAC with 'A++' Grade and NBA]

19, V. K. Joag Path, Wadia College Campus, Pune-41001, India

Ph./Fax- 020-26163831, <https://mescoe.mespune.org/>



IJARCT Publication of RDME 2025



The image shows the header and navigation menu of the IJARCT website. At the top left is the IJARCT logo, a colorful geometric shape. To its right is the journal title: "International Journal of Advanced Research in Science, Communication and Technology" in orange and black text, followed by the subtitle "A Multi-disciplinary Double Blind Peer-Reviewed Refereed Monthly Journal" in smaller black text. Further right is the ISSN Online number "2581-9429". Below this is a navigation bar with links: Home, Editorial Board, Authors, Indexing, Topics, Current Issue, Conferences, Awards, FAQ's, and Contact. A "News Cast:" section is highlighted in green. Below the navigation bar are several accreditation logos: Scope Database, Research Publication Rating and Indexing (7.53), DOI, and Science Library Index. To the right of these logos is a black box with white text: "Best Paper Award will be given for Every Issue." Below the logos is a "Welcome!" section with a paragraph: "International Journal of Advanced Research in Science, Communication and Technology (IJARCT) is one of the well-established, scholarly, Double Blind Peer-Reviewed Referred Journal, serving all areas of Computer, Communication and Applied". To the right of the welcome text are three boxes: "Education Awards-2025", "Publication as Per UGC Guidelines" with the UGC logo and text in Hindi and English, and "Impact Factor 7.67".

Photographs of Event



Photo 1: Chief guest with Principal and HoD of all departments



Photo 2: Chief guest Felicitation and Saraswati Poojan by Principal Dr. M. P. Dale



Photo 3: Inauguration of Souvenir of RDME 2025



Photo 4: Keynote session by Speaker, Mr. Vijaykumar Hippargi



Photo 5: Group photo with participants

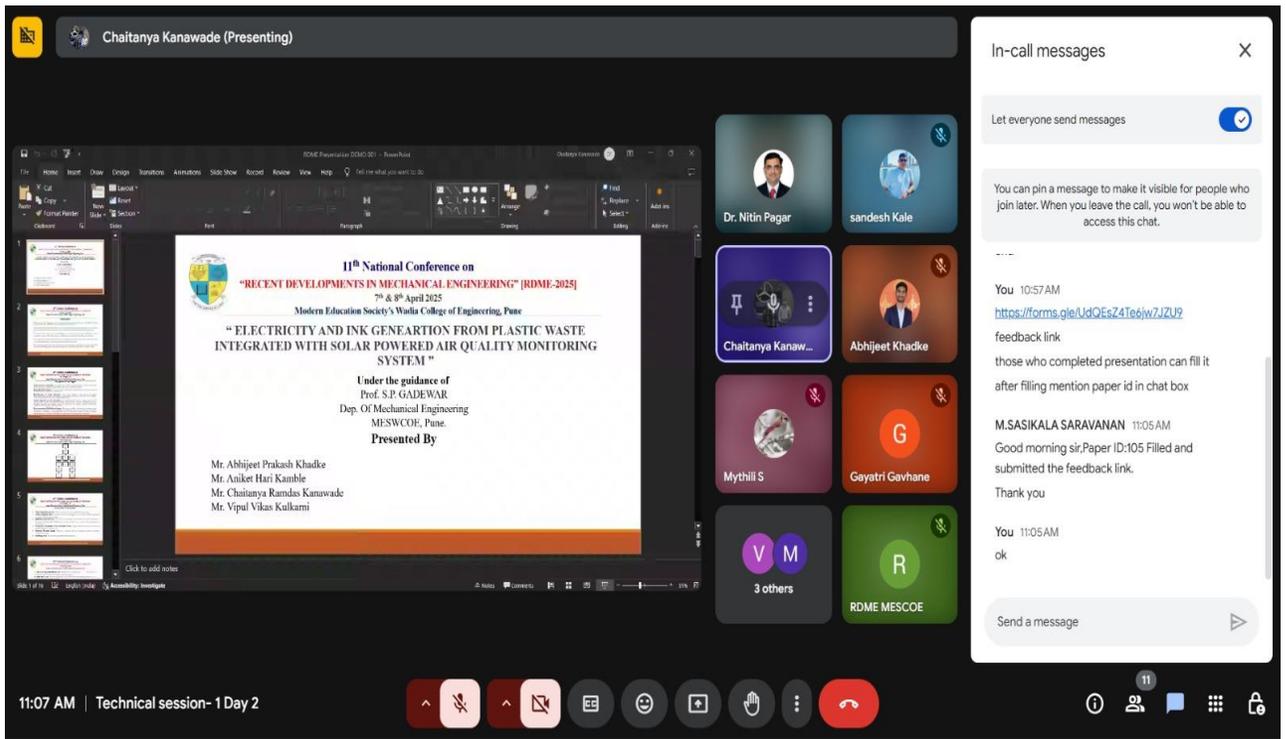


Photo 6: Online session presentations



Photo 7: Offline session presentations



OPPO K12x 5G
Bhushan | 7 April 2025 at 2:28 pm

Photo 8: Offline session presentations



Photo 9: Valedictory session

Bnd

Dr. B. D. Nandre

Organizing
Secretary

R. N. Yerrawar

Dr. R. N. Yerrawar

Organizing
Secretary

P. Salunke

Dr. D. R. Salunke

Coordinator

V. N. Raibhole

Dr. V. N. Raibhole

HoD

M. P. Dale

Dr. M. P. Dale

I/C Principal