Dr. MAHALINGAM

MCET

COLLEGE OF ENGINEERING AND TECHNOLOGY

Enlightening Technical Minds

R&I Newsletter
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Office of Dean Research & Innovation
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Office of Dean Research & Innovation

Vision

To become a globally recognized hub of pioneering research and innovation, driving transformative advancements in engineering and technology for the betterment of society.

Mission

1.Foster research excellence and innovation, by identifying potential IPR, offering financial support for filing, facilitating revenue sharing from consultancy collaborations, and rewarding faculty through fair incentives.

2. Strengthen research interest groups, empower the student research council, and publish the R&I newsletter to promote and celebrate achievements in the domain of research and innovation.

3. Disseminate knowledge through the publication of research, knowledge-sharing sessions, seminars, faculty development programs, workshops, inter and intra-college technical symposiums, conferences, and open-house exhibitions.

4. Offer state-of-the-art research facilities and resources to facilitate interdisciplinary research projects, secure research funding, conduct research with industry partners, and carry out Ph.D. works.

5. Review Ph.D. scholars' progress, department R&I activities, ongoing externally funded projects, in-house R&D projects, and institute innovation council.

Office of Dean Research & Innovation

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Office of Dean Research & Innovation

1. Strategic Discussion Meetings for Enhancing Research Activities

1.1. Monthly Highlights – June 2025

Driving Research Excellence

- Reviewed **C2S Project** milestones & Visvesvaraya Ph.D. Scheme follow-ups.
- Drafted **ANRF Advanced Research Grant Proposals** across multiple departments.
- Released **Call for In-House R&D Seed Money** (AY 2025–26).
- Processed **patent renewals** & IPR documentation (Forms 26 & 28).

Empowering Research Scholars

- Conducted **AU Ph.D. half-yearly progress reviews** via CFR portal.
- Streamlined **monthly progress report submissions**.
- Engaged in **Doctoral Committee meetings** and scholar mentoring.

Faculty Development & Knowledge Building

- Participated in **AICTE Online Meetings** – *Research Promotion Scheme 2025* & *MODROBS*.
- Initiated **Microsoft Power BI Workshop** for faculty (Data Science RIG).
- Finalized **FDP / RIG / KSS templates** for AY 2025–26.
- Prepared **R&I Handbook** for upcoming academic year.

Monitoring & Documentation

- Compiled **24th Bimonthly Research Dashboard (AY 2024–25)**.
- Launched **1st Dashboard Report (AY 2025–26)**.
- Updated **20th Academic Council Presentation**
- Processed **Research Incentive Approvals (June–Dec 2024)**.

Office of Dean Research & Innovation

1. Strategic Discussion Meetings for Enhancing Research Activities

1.1. Monthly Highlights – July 2025

Research Project Development

- Fine-tuned and **submitted ANRF–Advanced Research Grant (ARG) proposal**.
- Coordinated with faculty from various departments for **MeitY, MSME, and CDAC joint proposals**.
- Consolidated **active external funding submissions** across departments for the Delhi visit.
- Prepared and distributed **Research Insights brochures** showcasing institutional achievements.

Ph.D. Scholar Engagement

- Conducted **department-wise Ph.D. progress review presentations**.
- Facilitated **AU Ph.D. admission process** guidance for VVDN employees.
- Reviewed **monthly progress and CFR portal submissions** for scholars.

Workshops & Faculty Development

- Organized **Microsoft Power BI Workshop**.
- Nominated and mentored faculty for **Energy Audit Certification**.
- Reviewed and approved **KSS Annual Report (AY 2024–25)** for publication.

Institutional Meetings & Engagements

- Organized **R&I Coordinators and RIG SPoCs meetings** to plan upcoming semester tasks, dashboard data, and in-house R&D reviews.
- Coordinated with Principal & Secretary on **incentive approvals, performance appraisals**, and **patent renewal processes**.

Monitoring, Dashboard & Documentation

- Verified and circulated **2nd Bimonthly Research Dashboard (AY 2024–25)**.
- Initiated data collection for the **new dashboard cycle (AY 2025–26)**.
- Processed **research incentive approvals** and prepared consolidated reports.
- Coordinated **OTOD data**, **AQAR submissions**, and **R&I website updates**.
- Finalized **24th Bimonthly Report** and **3rd R&I Review Report** for submission.

Collaborations & Innovation Activities

- Reconstituted and briefed the **new IIC Team (AY 2025–26)** and planned Q4 activities.
- Conducted meeting with **MSME Hackathon 4.0 incubatee** and **CIBIE mentors**.
- Engaged with **external industry members (HCL Ltd.)** for academic-industry collaboration.
- Conducted **CN & IoT RIG research seminar** to promote inter-domain innovation.
- Submitted **Student Project Data (SPS 2021–22)** to **TNSCST** portal.

Office of Dean Research & Innovation

1. Strategic Discussion Meetings for Enhancing Research Activities

1.1. Monthly Highlights – August 2025

Research Progress & Ph.D. Engagement

- Conducted **progress review presentations** for S&H Ph.D. scholars and pending candidates.
- Devised a **4-month monitoring mechanism** to track Ph.D. research outcomes.
- Followed up on **monthly progress reports** and **CFR keyword uploads**.
- Initiated **Ph.D. coursework registration** and updated supervisor specializations on the portal.
- Verified and updated **Ph.D. progress scorecards** and scholar tracking dashboards.

Faculty Development

- Organized the **Advanced Power BI workshop (22–24 Aug)**.
- Presented **Induction Program sessions** for newly recruited faculty.
- Finalized **R&I Handbook (AY 2025–26)** and **Research Corner poster** for campus display.

Institutional Collaborations & Industry Connect

- Engaged with **Renault Nissan (RNTBCI)** and **Miracle Wellness Centre** for research partnerships.
- Discussed **FCRA certification for SIRO recognition** with Secretary.
- Explored collaboration with **Strange Work Pvt. Ltd.** on *Humanizing Quantum Controls*.
- Communicated with **MeitY & DST Directors** regarding proposals and expert sessions.
- Attended **KAPILA Scheme Orientation 2025–26**.

Research Funding & Innovation Initiatives

- Reviewed **83 In-house R&D proposals** under the first-cycle screening (Aug 11–29).
- Finalized **screening plan and evaluation framework** for proposal reviews.
- Followed up on **patent renewals (5 patents extended till 2030)** and initiated **one restoration**.
- Discussed **faculty research profiling** and **tracking of sanctioned in-house projects**.
- Reviewed and approved **Research Incentive KRAs and KPIs** for AY 2025–26.

Documentation, Data & Digital Systems

- Consolidated research data for **UTSAH Portal (AY 2021–25)** and **S&T Survey**.
- Updated **IPR, faculty specialization, and research metrics** on the institutional website.
- Finalized **24th Bimonthly & Annual Research Dashboard (2024–25)**.
- Initiated purchase of **Turnitin with AI Detection** for academic integrity enhancement.
- Collaborated with **IQAC** on Ph.D. details for NFT Survey submission.

Engagements & Meetings

- Participated in **AICTE-sponsored conference planning** with first-year faculty.
- Conducted **meetings with R&I coordinators** to align departmental R&I goals.
- Followed up with **RIG coordinators** on domain-wise SPOC restructuring.

1. Strategic Discussion Meetings for Enhancing Research Activities

1.2. IIC Progress Review and Action Plan Highlights

Dates: 19.06.2025 | 15.07.2025 | 30.08.2025

Venue: A117 **Time: 3:00–4:00 P.M.**

Discussion Highlights:

- Strengthen **Innovation & Incubation Centers** with active student–faculty participation.
- Form **multidisciplinary innovation teams** to address real-world challenges and develop market-ready products.
- Organize **hackathons, ideathons, bootcamps, and entrepreneurship talks** that lead to tangible results such as patents, prototypes, and start-ups.
- Establish **MoUs with industries, research institutions, and innovation councils** for mentorship, funding, and internship support.
- Promote active participation in **Smart India Hackathon**, **YUKTI Innovation Repository**, and **IIC National Innovation Contest (NIC)**.
- Ensure **regular updates on the IIC portal** with verified reports, photos, and measurable outcomes.
- Conduct **awareness programs** on innovation, design thinking, and start-up opportunities across all departments.
- **Recognize and reward** top-performing innovators, mentors, and student teams annually to sustain enthusiasm.
- Strengthen **leadership involvement** — Principal, HoDs, and IIC President to monitor progress and allocate resources for innovation activities.

1. Strategic Discussion Meetings for Enhancing Research Activities

1.3.RIG SPOC – R&I Coordination Meeting on 19th July 2025

Meeting Details : 19-07-2025 - between 10.30 a.m. and 12.00 p.m. at A117 (Dean R&I Conference Room)

Attendees : Dean R&I , R&I Coordinators, RIG SPOCs

Glimpse of the meeting:

- Dean R&I discussed the Delhi visit on project proposal submission and emphasized quality projects across domains beyond AI.
- RIG membership for new faculty and domain change for Ph.D.-registered members were reviewed.
- KSS activities for Internal/External SMEs and collection of FDP-attended faculty details from HR were planned.
- Collaboration research, joint publications, patents, and funding among RIG groups were encouraged.
- SPOCs were instructed to enhance research coordination, propose a communication forum, and support faculty profiling initiatives.

1. Strategic Discussion Meetings for Enhancing Research Activities

1.4. Meeting on Pre-Preparation of Project Proposals for External Funded Projects – 21 JUL 2025

A meeting was scheduled on **21st July 2025 at 3:30 PM** in the **Office of the Dean (R&I)** to identify faculty members for the **pre-preparation of project proposals** to be submitted to various **external funding agencies**.

During the visit to **MeitY and DST** in the second week of July 2025, fruitful discussions were held with officials at **MeitY** regarding potential funding opportunities. Based on their guidance, specific themes have been identified for proposal development, including:

1. Semiconductor Security
2. Hardware for Malware Analysis
3. Quantum Cryptography
4. Counterfeit IoT Products

Faculty members aligned with these domains are encouraged to participate actively in the upcoming meeting to initiate the proposal preparation process.

Identified faculty members

S.No.	Name & Designation	Department
1	Dr.K.Saranya, Assistant Professor(SG)	EEE
2	Mr.R.Muthubharathi, Assistant Professor(SS)	EEE
3	Mr.J.Sam Suresh, Assistant Professor(SS)	EEE
4	Dr.G.Soundarya, Assistant Professor(SG)	ECE
5	Dr.C.Moorthy, Assistant Professor(SS)	ECE
6	Ms. R.Sherine Jenny, Assistant Professor(SS)	ECE
7	Mr.V.Gurunathan, Assistant Professor(SS)	ECE
8	Mr.N.Praveen Sundra Kumar, Assistant Professor(SS)	IT
9	Mr.T.Selvakumar, Assistant Professor(SS)	AI&ML

The prepared proposals will be reviewed by expert members from the funding agencies prior to submission tentatively by Aug second week. HoDs were also requested to nominate a few more faculty members capable of preparing the proposals in these topics.

1. Strategic Discussion Meetings for Enhancing Research Activities

1.5. Periodic Progress Presentation Schedule of MCET ongoing Ph.D. Scholars 26 JUL – 1 AUG 2025

Ph.D. Periodic progress reports for the period **Feb 2025 – June 2025** were collected from the **ongoing scholars of MCET**, and a progress review meeting was conducted from **26th July 2025 to 1st August 2025.** In this meeting, the Ph.D. progress of the faculty members was presented and reviewed by the Review Committee Members. The **Review Committee Members** include:

- Dr.S.Ramakrishnan – Dean R&I
- HoD of the Scholar
- Supervisor of the Scholar (if Internal)

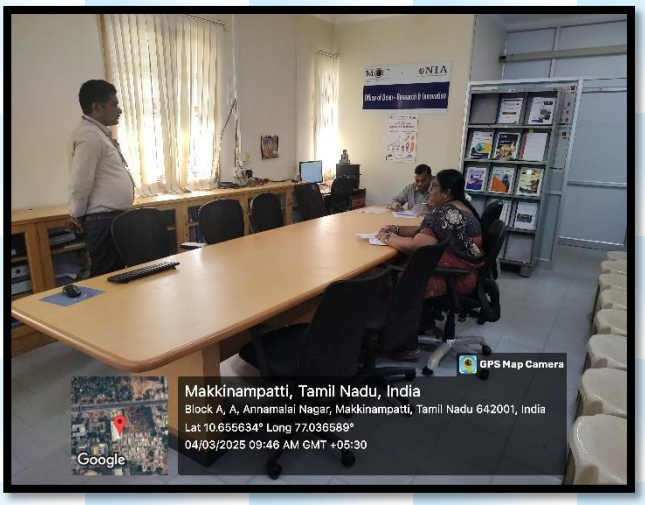
During the meeting, discussions were held with the scholars by the review committee members, their research progress was evaluated, concerns raised by the faculty members were addressed, and specific tasks to be completed over the next four months were outlined.

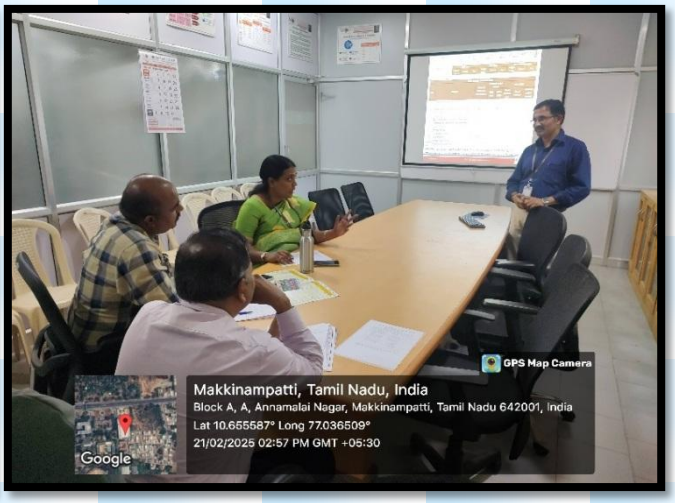
No. of Department wise Ph.D. Scholars attended the review

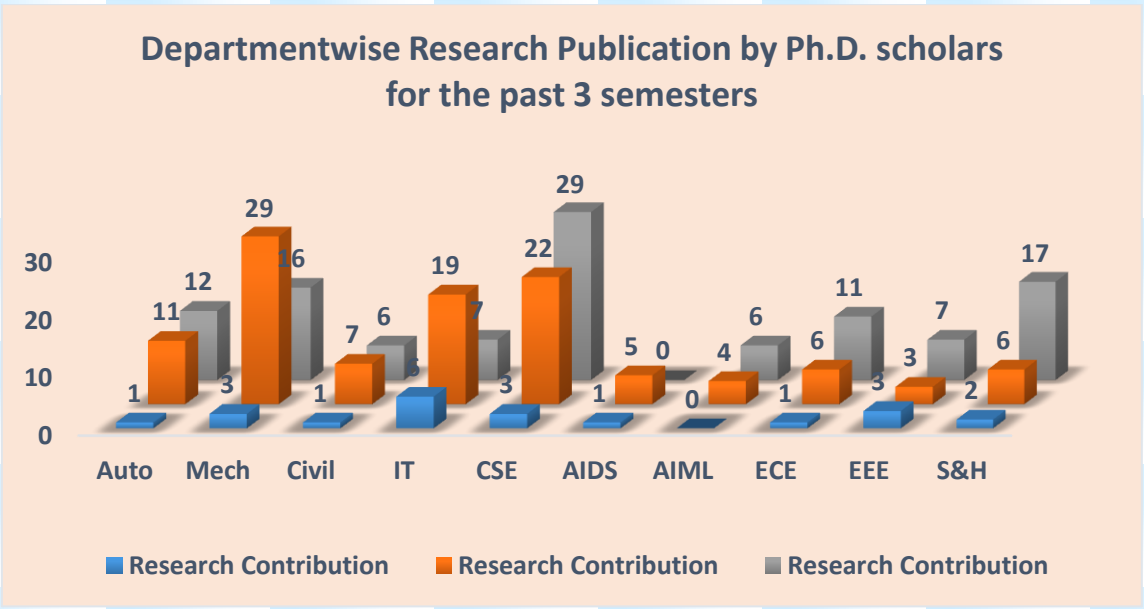
S.No.	Department	Count
1.	Automobile Engineering	8
2.	Mechanical Engineering & Mechatronics	7
3.	Civil Engineering	7
4.	Information Technology	12
5.	Artificial Intelligence and Data Science	7
6.	Artificial Intelligence and Machine Learning & Cyber Security	8
7.	Computer Science and Engineering	17
8.	Electronics and Communication Engineering	9
9.	VLSI	1
10.	Electrical and Electronics Engineering	9
11.	Master of Computer Applications	1
12.	Science and Humanities	8
Total		**94**

1. Strategic Discussion Meetings for Enhancing Research Activities

1.5. Periodic Progress Presentation Schedule of MCET ongoing Ph.D. Scholars
26 JUL – 1 AUG 2025







1. Strategic Discussion Meetings for Enhancing Research Activities

1.6. Seed Money In-House R&D Project Presentations – Fostering Innovation Through Research – 11 – 29 AUG 2025

The **Office of Dean – Research and Innovation** scheduled presentations for the **Seed Money In-House R&D Projects** at **A117 (Dean R&I Conference Room)**. Faculty members presented their innovative project proposals before the review committee.

This initiative aims to encourage in-house research and promote a culture of innovation across departments.

One of the sessions from the 11-day schedule is presented below:

Seed money in- house R&D Project: Presentation Schedule

Venue: A117 – Dean RI Office Conference Room - DAY 1: 11.08.2025 (Monday) & CATEGORY -C

S. No.	Name of the faculty	Title of the Project	Time	Review Committee Members
1.	Dr.Rama Thirumurugan, Prof. & Head, Mech Mr.J.Venkatesh, AP/Mech	Computer based Shell and Tube Heat Exchanger (Water to Water)	2.30 p.m.-2.45 p.m.	Dr.S. Ramakrishnan, Dean R&I Dr.D.Nathan, ASP/Mech Dr.S.K. Ashok, AP(SG)/Auto Dr.N.Natarajan, Prof/Civil
2.	Dr.D.Shanmugam, Prof. & Head- Auto Mr.R.B.Rajeshkumar, AP/Auto	Solar Powered Reconfigurable Power Converter for Vehicle to Grid Integration	2.45 p.m.-3.00 p.m.	
3.	Dr.D.Shanmugam, Prof.&Head-AUTO Mr.S.Mahalingam, AP/Auto	Design and Implementation of battery management system for Hybrid batter-hydrogen fuel cell energy storing system.	3.00 p.m.-3.15 p.m.	
4.	Dr.D.Shanmugam, Prof.&Head, Auto Mr.V.D.Tamilarasan, AP/Auto	Integration of EGR and Turbocharging Systems in Variable Compression Ratio (VCR) Engines	3.15 p.m.-3.30 p.m.	
5.	Dr.V.K.Sudha, Prof&Head/ECE Ms.S.Thilgavathi,AP(SS)/ECE	Robotics and Smart Systems Laboratory	3.30 p.m.-3.45 p.m.	Dr.S.Ramakrishnan, Dean R&I Dr.B.Vinoth Kumar, Prof/EEE Dr.G.Soundarya, AP(SG)/ECE
6.	Dr.D.Ganeshkumar, Prof. &Head /EEE Dr.S.Anthony Jesudurai, AP(SG)/EEE	Automatic and Manual Torque Measurement and Testing for Automotive Equipment's Quality Check	3.45 p.m.-4.00 p.m.	
7.	Mr.J.Arthur Vasanth, AP/EEE	Development of Experiments_Electronics	4.00 p.m.-4.15 p.m.	
8.	Dr.L.Meenachi, ASP & Head/IT Ms.S.Soundarya, AP(SS)/IT	Interactive Visual Debugger with GenAI Assistant for Real-time understanding of Data Structures	4.15 p.m.-4.30 p.m.	Dr.S. Ramakrishnan, Dean R&I Dr.J.Bhavithra, ASP/CSE Dr.S.Ponni @ Sathya, ASP/IT
9.	Dr.L.Meenachi, ASP & Head/IT Ms.P.Kalaivani, AP/IT	Deep Learning through Simulations	4.30 p.m. -4.45 p.m.	

We have received 83 proposals from faculty members under Category A, Category B, and Category C. The evaluations for the submitted proposals was conducted from 11.08.2025 to 29.08.2025.

1. Strategic Discussion Meetings for Enhancing Research Activities

1.6. Seed Money In-House R&D Project Presentations – Fostering Innovation Through Research – 11 – 29 AUG 2025

WORKSHOPS ORGANIZED

2. Workshops Organized

2.1. Workshop on "Power BI: Create Your Own Data Visualizations and Build Reports" For all the MCET Faculty Members- 1-4 JULY 2025

The **Office of the Dean, Research & Innovation**, organized a One-day Workshop (Batch-wise) on **"Power BI: Create Your Own Visualized Data and Build Reports"** from **01.07.2025** to **04.07.2025**. A total of more than 160 internal faculty members attended the workshop in batches. The workshop was **inaugurated** by **Dr. S. Ramakrishnan**, **Dean (R&I),** and **Dr. P. Govindasamy**, **Principal**, delivered the **valedictory address**.

Date	Resource Persons (FN Session 1 & 2)	Resource Persons (AN Session 3)
1st July 2025	Dr.A.G.Priya Varshini/IT & Ms.S.Nandhini /AI&DS	Ms.B.Suganya/CSE Dr.K.Rameshkumar/EEE
2nd July 2025	Mr.S.Syed Masoodhu/Civil, Ms. S. Sathyapriya/MCA & Ms. G. Keerthika /IT	Ms. G.Deepa/CSE Ms. S.Saranya/Cyber Security
3rd July 2025	Ms.S.C.Lavanya/CSE, Ms.D.C.Kiruthikka/AI&DS & Mr. M.Gideon Ganesh /Mech.	Ms. K.Saranya/IT & Ms. S.Dharani /ECE
4th July 2025	Dr. N. Suba Rani /CSE & Ms. P.Jessie /AI&ML	Dr.K.Umamaheswari/EEE Ms.M. Masilamani /AI&DS

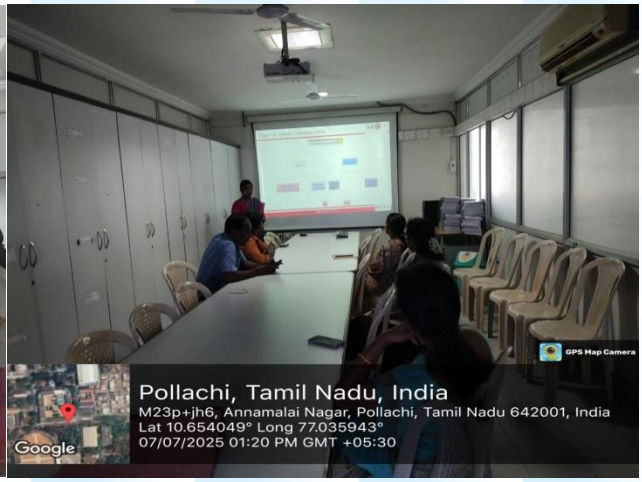
2. Workshops Organized

2.2. Two-Day Workshop on "Advanced Power BI"- 22&23 AUG 2025

KNOWLEDGE SHARING SESSIONS CONDUCTED

3.Knowledge Sharing Sessions Conducted

S.No.	Name of the Event	Resource Person	Date
1	VANET Threats and Solutions	Dr.A. Noble Mary Juliet, Associate Professor, Computer Science and Engineering, Dr.MCET, Pollachi	05/07/2025
2	Free Space Optics and its Challenges	Dr.G.Soundarya, Assistant Professor (SG), Electronics & Communication Engineering, Dr.MCET, Pollachi	07/07/2025
3	Security in Cloud	Dr.A.P. Janani, Associate Professor, Information Technology, Dr.MCET, Pollachi	19/07/2025
4	Structural Insights in to Nanomaterials via Powder X ray Diffraction (PXRD)	Mr.A.Ajith, Assistant Professor, S&H, Dr.MCET, Pollachi	26/07/2025
5	Role of Cryptography in Cyber Security	Ms. S. Suthaviji, Assistant Professor, Civil Engineering, Dr.MCET, Pollachi	09/08/2025
6	PXRD using Rietveld Refinement	Dr.D. Prakash, Assistant Professor(SG), S&H, Dr.MCET, Pollachi	13/08/2025



3.Knowledge Sharing Sessions Conducted

ACTIVITIES ORGANIZED THROUGH RESEARCH INTEREST GROUP

RIG

4.Activities Organized Through Research Interest Group (RIG)

S.No.	Title	Name of the Resource Person (MCET Faculty Members)	Date
1	Recent Advances in Depression Diagnosis	Ms.S.Yamuna devi, AP/ CSE (AI&ML)	05/06/25
2	Advancements in Spectral Fuzzy Graphs for Network Analysis	Ms.K.Senbaga Priya, AP/ S&H	13/08/25
3	Explainable AI in Disease Diagnosis	Ms.D.Janani, AP (SS)/IT	29/08/25

DETAILS OF THE PATENTS GRANTED/ PUBLISHED/ FILED

5. Details of the Patents Granted/ Published/ Filed

List Of Utility Patent Filed / Published

S. No.	Name of the Inventors	Title of the Patent / Application No.	Date
1	Dr. S.S.Sivaraju, Dr. R. Partheepan, Dr. T. Anuradha, Mr. S.Srithar, Mr. Ajith Kumar Singh Yadav, Mr. P.Vetrivelan, Ms. M.Indumathi, Dr.R.Ranjana , ASP – AIDS, Dr.D.Sivaganesan, Prof. & Head – CSE, Dr. S. Padmapriya, Mr.S.S.Manikandan & Mr. B. K. Santhosh	A System and Method for Machine Learning-Based Personalized Cancer Treatment Recommendation / 202541048298	06/06/2025 (P) 19/05/2025 (F)
2	Dr. R. Partheepan, Dr. S. S. Sivaraju, Mr. D. Prabhu Mr. V. Lakshminarayanan, Dr. Devikanniga Devarajan Mr. V.Mani, Dr. Ananthan Nagarajan Dr. J. Bhavithra, ASP – CSE, Dr. B. Shuriya Ms. K. Murugeswari, Mr. S. S. Manikandan & Ms. B. Shanmathi	AI-Assisted Diagnostic Imaging System and Method for Accurate Detection and Classification of Medical Anomalies / 202541048300	06/06/2025 (P) 19/05/2025 (F)
3	Dr. J. Ramprasath, ASP – AIDS, Dr. S. Nithya, ASP – AIDS, Ms.S. Nandhini, AP – AIDS, Ms.D.C.Kiruthikka , AP – AIDS, Dr. J. Sivakumar & Dr. M.Palanivendhan	AI -Based Real-Time Diagnostic & Emergency Alert System for Rural Clinics / 202541053181	13/06/2025 (P) 01/06/2025 (F)
4	Ms.D.C.Kiruthikka, AP – AIDS, Ms.R. Gomathi Ms. M. Masilamani, AP – AIDS, Mr. E. Hariharan Ms.A .Sathiyapriya, Ms.P.Kiruthika & Dr. D. Poongodi	AI -Powered Real-Time Crop Health and Yield Optimizer System / 202541054233	13/06/2025 (P) 05/06/2025 (F)
5	Dr.P.Sathiyamurthi, Mr.M.Vijayakumar, Mr.R.Ramamoorthi, Ms.C.Devipriya, AP(SS) – CSE, Ms.B.Suganya, AP(SS) – CSE, Dr.D.Madeswaran, Dr. K.Murugan, Dr.S.Rajan, Dr. D.Kamalraj & Ms.S.Sagunthala	Wireless Charging Apparatus for Electric Vehicles / 202541058038	04/07/2025 (P) 17/06/2025 (F)
6	Dr. R. Muthukumar, Mr.Jayaprakash Venugopal Dr. M. Anish, Dr. S. Philip Raja Mr. J. Dinesh Kumar, AP – MECH, Dr. Gopala Rao Thellaputta & Mr. V. Prabhu	Nano-Treated Hemp Fiber Composite For Enhanced Moisture-Wicking And UV Protection In Textile Applications / 202541071246	01/08/2025 (P) 26/07/2025 (F)
7	Mr.G. Karthikeyan, AP – ECE, Dr. J. Ramprasath, ASP – IT, Dr.N.Krishnaraj, Dr.A.G. Priya Varshini, AP (SG) - IT Ms.D.Janani, AP (SS) – IT, Ms.S.Soundariya, AP (SS) – IT & Dr.S.Nithya, ASP - AIDS	Autonomous Tank Cleaning Robot and A Method to Operate the Same / 202541070695	01/08/2025 (P) 24/07/2025 (F)
8	Mr.Mohanraj, Ms. S.Sivasankari Dr. S. Nithya, ASP – AIDS, Ms. Geetha Rajakumari, AP – AIDS, Ms.M.Prasannablessy , AP – CYS, Ms.M. Rajalakshmi, AP – AIDS, Ms.V.P.Sushma, AP – AIDS & Ms.D. C. Kiruthikka, AP - AIDS	A Non-Invasive Ai-Powered Multi-Bio-Signal Device for Early Detection and Risk Profiling of Heart Diseases / 202541070312	01/08/2025 (P) 23/07/2025 (F)

5. Details of the Patents Granted/ Published/ Filed

List of Granted Design Patent

S.No.	Name of the Inventors	Title of the Patent & Application No.	Date
1	Mr.S.Nachimuthu, Dr. R. Sathiskumar, Dr. S. Seenivasan, Dr. S.V. Gurupranes, AP – Mech, Dr. N. Balamurali, AP – Mech, Dr. A. Tajdeen, & Mr.M. Lohit, Student - Mech	Portable Food Analyzer Machine / 449051-001	12/06/2025(G) 24/02/2025 (F)
2	Dr. S. Ayyappan, ASP – Mech, Mr.A.Vetrivel, Student of Mech, Dr.Rama.Thirumurugan, Prof – Mech, Dr.M.Jayaraj, AP(SG) – Mech, Mr.C.Radhakrishnan, AP – Mech, Mr.S.V.Gurupranes, AP – Mech & Dr.D.Nathan, ASP - Mech	Multi-core pin coupling / 411682-001	27/03/2024 (F) Journal No. is 32/2025 and Journal Date is 08/08/2025
3	Mr.Praveen Singh Tomar, Ms.K.C.Theepika, AP – MCA, Dr.Shabir Ahmed Qureshi, Mr.V. Suryanarayanareddy, Dr. Parthasarathi Murugesan & Ms.S. Rajalakshmi	AI Based Real Time Cardiovascular Disease Detection Device / 461892-001	11/06/2025 (F) Journal No. is 34/2025 and Journal Date is 22/08/2025

List of Filed Design Patent

S.No.	Name of the Inventors	Title of the Patent & Application No.	Date
1	Dr.Rama Thirurmurugan, Prof & Head – Mech, Dr. M. Jayaraj, AP(SG) – Mech, Dr. S.V. Gurupranes, AP – Mech, Dr.S.Madhusuthanan, AP (SG) – Mech, Students of Mech- Mr. M. Lohit, Mr. T. Karthik, Mr. R. Sivasankar & Mr.T. Vignesh	Design and Fabrication of a Chalk Dust Cleaner for Classroom Dusters / 462670-001	18/06/2025 (F)
2	Mr.S.Nachimuthu, Dr. P. Raju, Dr. S.V. Gurupranes, AP – Mech, Dr. N. Balamurali , AP – Mech, Mr. J. Nagarajan, AP – EEE, Students of Mech - Mr.M. Lohit, & Mr.R.S. Sharveshwaran	Portable Concrete Mixing Machine / 463711-001	27/06/2025 (F)
3	Mr.S.Nachimuthu, Mr.V. Madhan Kumar Mr. J. Nagarajan, AP – EEE, Students of Mech - Mr.M. Lohit, Mr.R.S. Sharveshwaran, Mr.M. Manoj, & Mr.V.S. Sandeep	Electric Ironing Device with Lifting Mechanism / 466281-001	18/07/2025 (F)

List of Copy Rights Registered

S.No.	Name of the Inventors	Title & Application No.	Date
1	Dr.S.Ramakrishnan, Dean of R&I	Research and Innovation Policy Handbook / LD20250172599	27/08/2025 ®

RESEARCH PUBLICATIONS

6.RESEARCH PUBLICATIONS

Journal Article Publications

1. Kumar, Senthil, **J. Ramprasath**, V. Kalpana, Manikandan Rajagopal, Maheswaran S, and Rupesh Gupta. "Integrating Brain-Inspired Computation with Big-Data Analytics for Advanced Diagnostics in Neuroradiology." Neuroscience Informatics 5, no. 2 (2025): 100202. https://doi.org/10.1016/j.neuri.2025.100202. ***Indexing: Q1, SCIE***

2. Singh, Laxman, **Saravanakumar Balakrishnan, Joseph Johnson William**, et al. "Mechanistic Insights in Surface Engineering of Micro-/Nanocomposite Phase Change Materials for Thermal Energy Storage: A Review." Advanced Energy and Sustainability Research, July 21, 2025, 2500067. https://doi.org/10.1002/aesr.202500067. ***Indexing: Q1, SCIE***

3. Subramanian, V., K. Logesh, Renjin J. Bright, and P. Hariharasakthisudhan. "Mechanical and Impact Behaviour of Titanium-Based Fiber Metal Laminates Reinforced with Kevlar and Jute Fibers under Various Stacking Configurations." Defence Technology, June 2025, S2214914725002065. https://doi.org/10.1016/j.dt.2025.06.023. ***Indexing: Q1, SCIE***

4. **Thangavelu, Saravana Kannan, Kaliamoorthy Mylsamy**, Abu Saleh Ahmed, and Charlie Chin Voon Sia. "A Hybrid Multi-Objective Optimization and Decision-Making Framework (NSGA-II–TOPSIS) for Bioethanol Production from Sago Pith Waste via Microwave-Enhanced Subcritical Water Hydrolysis." Chemical Engineering and Processing - Process Intensification 217 (November 2025): 110478. https://doi.org/10.1016/j.cep.2025.110478. ***Indexing: Q1, SCIE***

5. V. S., Shaisundaram, Saravanakumar Sengottaiyan, **Gunasekaran Raji, Kumaravel S.**, and Chandrasekaran M. "Machine Learning-Driven Energy Efficiency Enhancement and Emission Reduction in Diesel Engines Using Pumpkin Seed Biodiesel Blends and CeO2 Nanoparticles." International Journal of Energy Research 2025, no. 1 (2025): 2329925. https://doi.org/10.1155/er/2329925. ***Indexing: Q1, SCIE***

6. **A., Manikandan**, and Murali Karuppusamy. "Sustainable Concrete Modified with Industrial Waste and Natural Fibre." Journal of the Croatian Association of Civil Engineers 77, no. 06 (2025): 553–66. https://doi.org/10.14256/JCE.4201.2024. ***Indexing: SCIE.***

7. Giridharadhayalan, M., **T. Ramkumar,** M. Selvakumar, and P. Narayanasamy. "Fatigue Life Prediction of Ti–5Al–2.5Sn Alloy Reinforced Tungsten Composites Using Machine Learning." Transactions of the Indian Institute of Metals 78, no. 8 (2025): 193. https://doi.org/10.1007/s12666-025-03674-z. ***Indexing: SCIE.***

6. RESEARCH PUBLICATIONS

8. Kumar, T. Sathesh, S. Kirubadevi, P. Shanmugapriya, and Balasubbareddy Mallala. "Small-Hydropower Microgrid in Smart Distribution Network with Grid-Isolated Electric Vehicle Charging System Using KMA-SDRN Algorithms." Electrical Engineering, ahead of print, July 2, 2025. https://doi.org/10.1007/s00202-025-03185-6. ***Indexing: SCIE.***

9. Lawrence, Jino, Berlin Mohanadhas, **Natarajan Narayanan**, and Vasudevan Mangottiri. "Confronting the Implications of Subsurface Heterogeneity on the Mass Transfer and Transport of Nitrate through Layered Porous Media." Journal of Porous Media, ahead of print, 2025. https://doi.org/10.1615/JPorMedia.2025053663. ***Indexing: SCIE.***

10. Muthusamy, Karthick, **Ramprasath Jayaprakash**, Vivek Duraivelu, and Satheesh Kumar Sabapathy. "A Novel Feature Extraction and Siamese Zeiler and Fergus Forward Taylor Network-Based Rice Plant Leaf Disease Detection." Journal of Phytopathology 173, no. 3 (2025): e70074. https://doi.org/10.1111/jph.70074. ***Indexing: SCIE.***

11. **Rajarajeshwari, K. C., and N. Saravanakumar.** "A High-Performance Dual-Element Slotted THz Antenna with Enhanced MIMO Metrics for 5G/6G Applications." Wireless Networks 31, no. 6 (2025): 4215–26. https://doi.org/10.1007/s11276-025-03990-8. ***Indexing: SCIE.***

12. Rajupillai, K., **J. Ramprasath**, P. Vetrivelan, and S. S. Sivaraju. "Efficient Compression Methods Using Combining the Code Based Encoding Techniques." International Journal of System Assurance Engineering and Management, ahead of print, August 1, 2025. https://doi.org/10.1007/s13198-025-02884-4. ***Indexing: SCIE.***

13. **Ramesh, R.,** S. Krishnaprakash, Nikola Ivkovic, Mario Konecki, and Chiranjibe Jana. "Spherical Picture Fuzzy Sets: Enhancing Decision-Making with Geometric Bonferroni Methods." International Journal of Analysis and Applications 23 (June 2025): 135. https://doi.org/10.28924/2291-8639-23-2025-135. ***Indexing: SCIE.***

14. **Saravanakumar, B., K. Vijayakumar, V. Regina Delcy**, et al. "MWCNT/CeVO4 Nanostructured Composite as Electrochemical Supercapacitor Electrodes." Ionics, ahead of print, July 2, 2025. https://doi.org/10.1007/s11581-025-06497-6. ***Indexing: SCIE.***

15. **Sherine Jenny, R., R. Sudhakar, and S. Tharini.** "Design of a Compact Present S-Box Using CBS Pre-Resolve Adiabatic Logic." IETE Journal of Research, July 6, 2025, 1–10. https://doi.org/10.1080/03772063.2025.2521678. ***Indexing: SCIE.***

6. RESEARCH PUBLICATIONS

16. Abukhanafer, Ghassan, Ashish Tiwari, Kishor Kumar S., et al. "Photocatalytic Degradation of Organic Pollutants in Water: Application of TiO2-Based Nanocomposites." Periodicals of Engineering and Natural Sciences (PEN) 13, no. 2 (2025): 403–16. https://doi.org/10.21533/pen.v13.i2.263. ***Indexing: Scopus.***

17. "Comprehensive Spectroscopic and Chromatographic Analysis of Waste Fish Oil Biodiesel Using NMR, GC-MS, and FTIR Techniques for Sustainable Alternative Fuel Production." MALAYSIAN JOURNAL OF CHEMISTRY 27, no. 3 (2025). https://doi.org/10.55373/mjchem.v27i3.370. ***Indexing: Scopus.***

18. "Design of Non-Isolated DC-DC Converter-Based LED Driver for Electric Vehicle." ARPN Journal of Engineering and Applied Sciences, August 5, 2025, 648–54. https://doi.org/10.59018/052580. ***Indexing: Scopus.***

19. "Multi Response Optimization during Machining of Magnesium Matrix Nanocomposite Reinforced with TiN Nanoparticulates." MALAYSIAN JOURNAL OF CHEMISTRY 27, no. 3 (2025). https://doi.org/10.55373/mjchem.v27i3.361. ***Indexing: Scopus.***

20. Nipun Kumar, Amitava Sil, **M. Mariappan,** et al. "Performance-Based Evaluation Techniques for Seismic Vulnerability Assessment of Reinforced Concrete Structures." International Journal of Computational and Experimental Science and Engineering 11, no. 3 (2025). https://doi.org/10.22399/ijcesen.2839. ***Indexing: Scopus.***

21. **Nithya, S**., R.Geetha Rajakumari, **D.C. Kiruthikka, J. Ramprasath, and M. Masilamani.** "Deep Learning Approach for Conversion of Sign Language to Speech: Enhancing Communication for the Deaf and Dumb." International Journal of Advanced Science and Engineering 11, no. 4 (2025): 4775–84. https://doi.org/10.29294/IJASE.11.4.2025.4775-4784. ***Indexing: Scopus.***

22. **S, Bharathi, and Senbagam B**. "Elephant Conservation on Indian Railways Using Deep Learning Techniques." Journal of Internet Services and Information Security 15, no. 2 (2025): 146–59. https://doi.org/10.58346/JISIS.2025.I2.011. ***Indexing: Scopus.***

23. T, Prem Kumar, Avinash Kumar R, Kurian Antony, Rahul N U, Stalin Durai T, and **Sreejith S Nair**. "Temperature and Humidification Control Studies on Solar Assisted Egg Incubator." Engineering Research Express 7, no. 3 (2025): 035501. https://doi.org/10.1088/2631-8695/ade6cc. ***Indexing: Scopus.***

6.RESEARCH PUBLICATIONS

BOOKS PUBLISHED

1. Dr. P. Venugopal, Dr. S. Gopinath, **Mr.M.Chairman,** Ms. T. Vijayalakshmi, "Industry 4.0: The Rise of Smart Manufacturing and Automation" ISBN : 978-93-6228-876-9, Protek Publications, June 2025

2. Ms. Jeyarani R ,K. Nanthitha ,Dr Sweta Kumari, **Dr.Kishore Balasubramanian**, "Deep Reinforcement Learning Applications in Autonomous Systems and Decision Making", RADemics Research Institute, ISBN13: 9789349552982. June 2025

3. **Ms.K.Tamilselvi**, "Data Preparations : Pre-processing and Exploratory Analysis", ISBN :978-81-988835-2-0, June 2025

4. **Ms.R.Rathika**, "Artificial Intelligence and Big Data Analytics : Techniques and Applications", ISBN : 978-93-49818-07-1. June 2025

BOOK CHAPTERS PUBLISHED

1. Mohanapriya, D., **M. Chairman**, B. Manojkumar, P. Mathivanan, and G. Kalpana. "Enhancing Assistive Technologies With Brain-Computer Interfaces (BCIS) and AI for Optimizing Neurorehabilitation Approaches to Recovery:" In Neural Network Technologies and Brain-Computer Interfaces, edited by Mohammed Saleh Al Ansari and Kapil Joshi. IGI Global, 2025. https://doi.org/10.4018/979-8-3693-9445-8.ch015.
2. **M. Jayaraj,** M Praveen Kumar, R Sivakumar, V. Kiruthiga Devi, "Industrial AI for the Smart Manufacturing Sector" with Naveenkumar, Pushpalatha, Vandana Sharma, Gunapriya Devarajan, Azween Abdullah, and Ahmed A. Elngar. Handbook of AI-Based Mechatronics Systems and Smart Solutions in Industrial Automation. 1st ed. CRC Press, 2025. https://doi.org/10.1201/9781032615790.

3. **Selvanayaki, S.,** A. S. Muthanantha Murugavel, and **S. Deepa.** "System for Continuous Tracking of Diabetes Management and Patient Health:" In Smart Healthcare, Clinical Diagnostics, and Bioprinting Solutions for Modern Medicine, edited by Parag Jain and Nitin Kumar Tripathi. IGI Global, 2025. https://doi.org/10.4018/979-8-3373-0659-9.ch014.

4. **Thilagavathi, S., T. Sathiyapriya, R. Sudhakar, and V. Gurunatha**n. "Design and Optimization of MIMO Configuration with Circular Polarization for Ultra-Reliable 5G Networks." In Millimeter Wave and Terahertz Devices for 5G and 6G Systems, edited by K. Vasu Babu, Sudipta Das, Gorre Naga Jyothi Sree, Varakumari Samudrala, and Beulah Jackson. Signals and Communication Technology. Springer Nature Switzerland, 2025. https://doi.org/10.1007/978-3-031-78802-4_20.

6.RESEARCH PUBLICATIONS

CONFERENCE PUBLICATIONS

1. **G, Priyadharshini**, **Ponni P,** and Sakthitharan Subramanian. "Improving Alzheimer's Diagnosis with Deep Learning and Pre-Trained CNN Models." 2025 11th International Conference on Communication and Signal Processing (ICCSP), IEEE, June 5, 2025, 896–900. https://doi.org/10.1109/ICCSP64183.2025.11088743.

2. **K, Durgalakshmi**, Karthik K, Siddharth M, and Saravanakumar A. "Transforming Urban Waste Into Power and Ink." 2025 Third International Conference on Augmented Intelligence and Sustainable Systems (ICAISS), IEEE, May 21, 2025, 1758–62. https://doi.org/10.1109/ICAISS61471.2025.11041910.

3. Krishnamoorthy, Gayathri Devi, **Kishore B,** Vinothini V R, Kanmani Ruby E. D, Sakthisudhan K, and Thilagavathi K. "Exploring Deep Learning Methods for Accurate Bridge Crack Detection: A Comparative Study." 2025 3rd International Conference on Advancements in Electrical, Electronics, Communication, Computing and Automation (ICAECA), IEEE, April 4, 2025, 1–6. https://doi.org/10.1109/ICAECA63854.2025.11012498.

4. V., Mani, Sivaraju S S, Jaikaruna S, T. Anuradha, **Sivaganesan D S**, and B. Shuriya D. "Optimized Malware Detection Using Clouded Leopard Optimization for Feature Selection." 2025 6th International Conference on Inventive Research in Computing Applications (ICIRCA), IEEE, June 25, 2025, 1968–74. https://doi.org/10.1109/ICIRCA65293.2025.11089511. ***Indexing: Scopus.***

CONSULTANCY ACTIVITIES CARRIED OUT

7.Consultancy Activities Carried Out

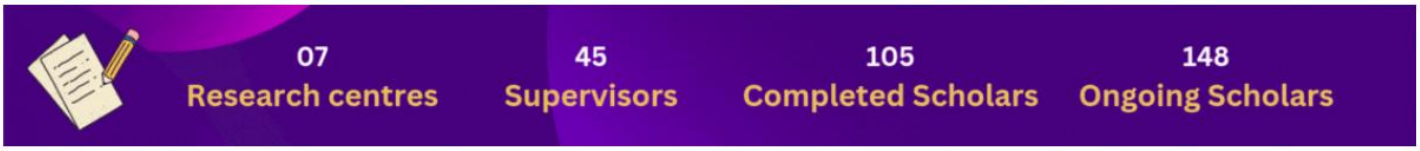
S.No.	Name of the Faculty/ Consultants	Date	Department	Name of Consultancy Project/Corporate Training Program	Consulting/ Sponsoring Agency	Revenue Generated in Rs.
1.	Dr.B.Saravanakumar	14-08-2025	Science and Humanities	Testing charges	Ms. J.Priya Sharon, Pope College, Thoothukudi	1186
2.		28-07-2025			Dr.A.Saranya, Veltech, Chennai	6300
3.		08-07-2025			Ms.R.Padmavathi, KCT, Coimbatore	1000
4.	Dr.L.Chitra Mr.M.Saravanakumar Mr.D.Saravanaraj	19-08-2025	Electrical and Electronics Engineering	Charges for Energy audit	Mahindra Holidays & Resorts India Limited, Kandaghat	25000
5.					Gables Promoters Pvt. Ltd., Naldhera	30000
6.					Gables Promoters Pvt. Ltd., Masheda	30000
7.					Gables Promoters Pvt. Ltd., Janjehli	15000
8.	Dr. S. Anthony Jesudurai Mr.R.Muthubharathi Mr.D.Ganaprakasam Mr. K A Prakash	15-07-2025	Electrical and Electronics Engineering	Training and Knowledge Transfer to Students on Industrial Automation Technologies and Python Programming for IoT	Vanavarayar Institute of Agriculture, Manakkadavu, Pollachi	80000
9.	Dr.L.Chitra Mr.M.Prabhu Raj Mr.D.Saravanaraj	11-07-2025	Electrical and Electronics Engineering	Charges for Energy audit	Govt. Hospital, Udumalaipettai	6356 (twice)
10.						
11.		17-06-2025			Mahindra Holidays & Resorts India Limited, Dehradu	25000
12.					Mahindra Holidays & Resorts India Limited, Kanatal	20000
13.					Mahindra Holidays & Resorts India Limited, Binsar	25000
14.	Mr.P.S.Sathish Kumar Ms.R.Anuja	14-08-2025	Civil Engineering	Charges on Material Testing	Sri Kumaraguru Mill Ltd., Pollachi	1000
15.	Mr.A.Manikandan	15-07-2025		Training and Knowledge Transfer to the students on Auto CAD Design for Landscape Architecture	Vanavarayar Institute of Agriculture, Pollachi	40000

7.Consultancy Activities Carried Out

S.No.	Name of the Faculty / Consultants	Date	Department	Name of Consultancy Project/ Corporate Training Program	Consulting/ Sponsoring Agency	Revenue Generated in Rs.
16.	Mr.A.Manikandan Mr.M.Sudharsanan	11-07-2025	Civil Engineering	Charges on Material Testing	Shankar Chamber Circuit Bricks, Palani	1000
17.	Mr.S.Dineshkumar Dr.S.Syed Masoodhu	09-07-2025			The Commissioner Ottanchathram Municipality	19492
18.					The Municipal Engineer, Valparai	8475
19.	Mr.A.Manikandan Dr.S.Krishnakumar Mr.K.Karuppasamy	27-06-2025		Charges on Inspection Report of Layout Infrastructure	Mrs.Magesh & Mrs.Preethi, Coimbatore	15000
20.	Dr.S.Krishnakumar Mr.A.Manikandan Mr.K.Karuppasamy	03-06-2025				15225

Ph.D.Scholars & Supervisors

8. Ph.D. SCHOLARS & SUPERVISORS



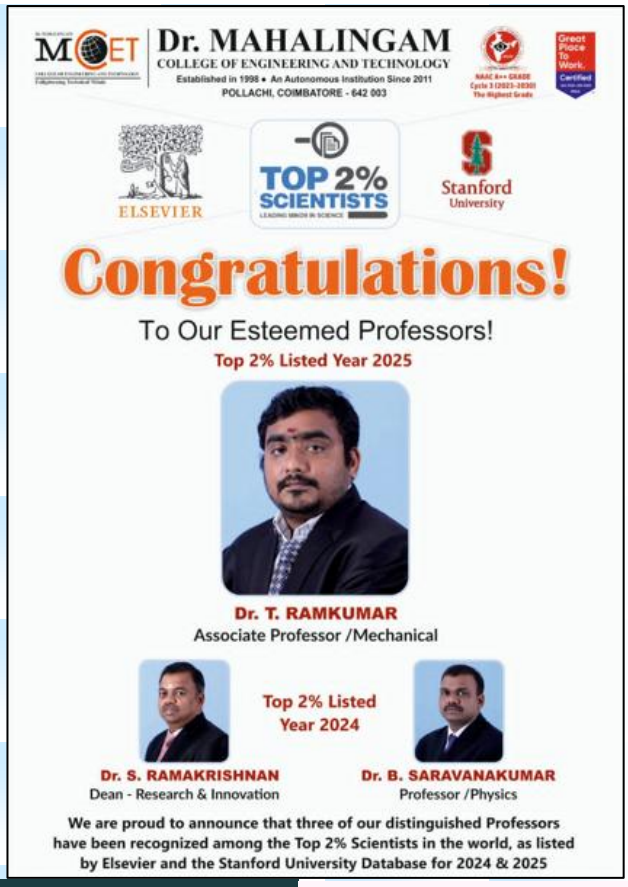
Research Particulars	Count
Number of Research centres	7
Number of Supervisors	45
Number of Completed Scholars	105
Number of Ongoing Scholars	148

S.No.	Name of the Department	No. of Internal Scholars	No. of External Scholars	Total No. of Ongoing Scholars
1.	Department of Automobile Engineering	9	1	10
2.	Department of Civil Engineering	9	5	14
3.	Department of Mechanical Engineering	8	6	14
4.	Department of Information Technology	15	1	16
5.	Department of Computer Science and Engineering	17	8	25
6.	Department of Artificial Intelligence and Data Science	8	-	8
7.	Department of Artificial Intelligence and Machine Learning	8	-	8
8.	Department of Electronics and Communication Engineering	12	8	20
9.	Department of Electrical and Electronics Engineering	16	9	25
10.	Department of Science and Humanities	8	-	8
	Total	**110**	**38**	**148**

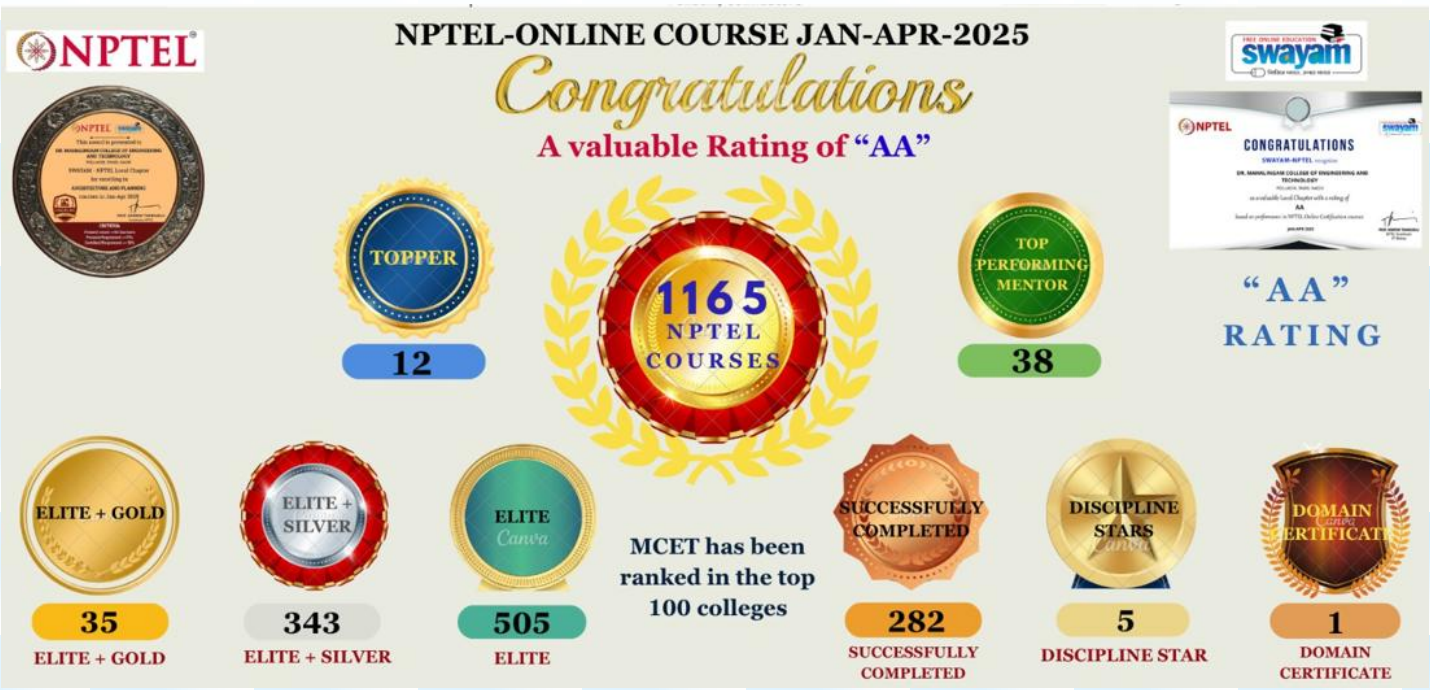
S.No.	Name of the Department	No. of Supervisors
1.	Department of Information Technology	4
2.	Department of Computer Science and Engineering	4
3.	Department of Electrical and Electronics Engineering	10
4.	Department of Electronics and Communication Engineering	6
5.	Department of Mechanical Engineering	7
6.	Department of Automobile Engineering	4
7.	Department of Civil Engineering	2
8.	Department of Artificial Intelligence and Data Science	2
9.	Department of Artificial Intelligence and Machine Learning	1
10.	Master of Computer Applications	1
11.	Department of Science and Humanities	5
	Total No. of Supervisors	**45**

AWARDS & RECOGNITIONS

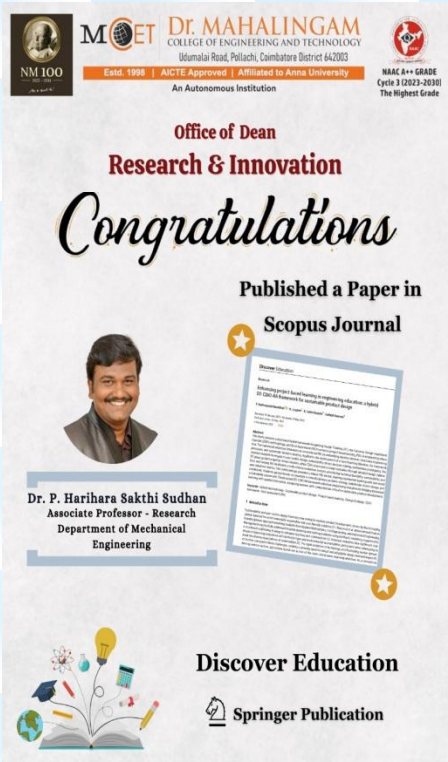
9.Awards & Recognitions



9. Awards & Recognitions



9. Awards & Recognitions



9. Awards & Recognitions

9. Awards & Recognitions

9. Awards & Recognitions

9. Awards & Recognitions

Participation of Faculty as a Resource Person

S.No.	Name of the Faculty	Topic Delivered	Venue	Date
1	Mr. T.Selvakumar Department of AI&ML	Drone Technology Course	Vanavarayan Institute of Agriculture	19/05/25 – 24/08/25
2	Ms.K.Rajalakshmi, Dr. B. Poorani, Ms. D. Nivetha &Ms. V. Arunadevi Department of S&H	TVSM - English Communication Skills Training	TVSM -Hosur	25/02/2025 – 26/08/2025

Mr. T.Selvakumar, Department of AI&ML

R&I INITIATIVES

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Research Initiatives

RESEARCH & COLLABORATION GROUPS

1. Establishing Research Interest Groups
2. Managing Institution's Innovation Council
3. Establishment of Student Research Council (Year: 2023 - 2024)

FACULTY & SCHOLAR DEVELOPMENT

4. Expanding Research Scholar Enrolment
5. Launching Research Faculty Scheme
6. Conducting Knowledge Sharing Sessions & Organizing Research Seminars
7. Facilitating Faculty for Online NPTEL- Swayam Certifications
8. Facilitating Faculty to attend Faculty Development Programmes
9. Facilitating faculty to become authorized expert by Govt. agencies to carry out Consultancy Works
10. Rewarding Faculty for Research Contributions
11. Purchasing R&I Tools for Plagiarism & Grammar Checking
12. Facilitating Subscriptions for Printed & E-Journals

RESEARCH REVIEW & MONITORING

13. Periodic Review of Departments' R&I Activities
14. Periodic Review of Ph.D. Scholars' Progress
15. Periodic Review of Ongoing External & In-house Funded Projects and Consultancy Works

RESEARCH INCENTIVES & SUPPORT

16. Enhancing & Coordinating Cash Incentive Distribution to faculty members for Research Contributions
17. Sanctioning Research Contingency Grant for augmenting Research facility
18. Developing In-house talent pool, providing Technical & Financial support for IPR Management
19. Identifying & Sanctioning In-house R&D Projects for Faculty members
20. Facilitating Revenue Sharing for Consultancy Works

RESEARCH COMMUNICATION & PUBLICATION

21. Publishing Ph.D. Scholars Monthly Progress Review report
22. Publishing Bi-monthly MCET Research Dashboard
23. Updating Research information periodically in institution webpage
24. Publishing R&I Newsletter
25. Circulating Call for Proposals for external grants
26. Publishing Research Process Handbooks
27. Developing process flows, templates and forms for various R&I activities
28. Creating and Updating IRINS Profile
29. Preparing Annual reports for RIG, KSS and R&I Annual report

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Dr. S. RAMAKRISHNAN
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Research Publications

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AP (SS) / CIVIL

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AP (SS) / EEE

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Ms. J. SANTHIYA
AP / CSE

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AP (SG) / IT

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Dr. B. BALA VIJAYA PRIYA
AP (SS) / S&H

RIG, KSS, FDP & Annual Reports

Ms. V. P. SUSHMA
AP / AI&DS

R&I Office Correspondence

Mr. R. BASKARANAND NOVA
TEACHING ASSISTANT

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