

MAY 2026

DMI KONNECT

Monthly Newsletter of DFT Group of Institutions

VOLUME : 2 ISSUE : 5





FOUNDER & CHAIRMAN MESSAGE

Building Resilient Youth for a Stronger Nation

Dear Members of the DMI Family,

India is blessed with one of the youngest populations in the world. Our youth possess immense energy, creativity, and aspirations. Yet, beneath this demographic advantage lies a growing concern. Many young people today are experiencing frustration arising from a lack of quality employment opportunities, a mismatch between education and industry requirements, uncertainty about the future, and increasing identity and relationship conflicts.

These challenges are manifesting themselves in disturbing ways. Rising incidents of anxiety, depression, suicides, social unrest, and agitations among young people are warning signals that cannot be ignored. As educators and nation-builders, we have a moral responsibility to respond proactively.

The traditional model of education that focuses primarily on acquiring degrees is no longer sufficient. We must equip our students with the skills, competencies, and attitudes required to succeed in a rapidly changing world. Skill-based education, industry-relevant learning, internships, apprenticeships, and hands-on projects must become integral parts of our educational ecosystem.

At the same time, not every student will find employment through conventional career paths. Therefore, we must nurture an entrepreneurial mindset and encourage young people to become job creators rather than merely job seekers. Innovation, creativity, and problem-solving should be embedded in our curriculum and institutional culture.

Equally important is the need to strengthen the emotional and psychological well-being of our students. Mental resilience, self-leadership, and the ability to cope with setbacks are essential life skills. Our institutions must provide greater access to trained counsellors and mentoring systems that help students navigate personal, social, and relationship challenges.

At DMI, our mission has always been to transform lives through education. Let us continue to reimagine education so that it not only imparts knowledge but also develops employability, entrepreneurship, character, and emotional strength.

By building capable, confident, and resilient youth, we are not merely shaping individual futures—we are building a stronger, more prosperous, and more compassionate nation.

Let us work together towards this noble mission.

With best wishes,

Rev. Fr. Dr. J. E. Arulraj

Chairman, DMI Foundations





CEO MESSAGE

Change Before Change Forces You to Change

Dear Colleagues,

The world of higher education is undergoing a profound transformation. The demand for academic programmes is shifting rapidly, driven by technological advancements, changing industry needs, and evolving career aspirations of students.

There was a time when the core engineering disciplines—popularly referred to as Coil, Oil, and Soil (Electrical, Mechanical, and Civil Engineering)—dominated the landscape. As the digital revolution gathered momentum, demand shifted dramatically towards Computer Science, Information Technology, and related disciplines. Institutions across the country adapted their offerings to meet this demand.

Today, we are witnessing yet another transition. The rapid emergence of Artificial Intelligence and automation is reshaping the technology sector. While AI is creating new opportunities, it is also changing the nature and volume of jobs available in traditional software development and IT services. Simultaneously, sectors such as manufacturing, infrastructure, energy, transportation, sustainability, and advanced engineering are regaining prominence, leading to renewed interest in core engineering disciplines.

Such shifts have significant implications for educational institutions. We must be prepared to resize and realign our faculty strengths, recruit talent in emerging areas, and continuously upgrade our academic capabilities. Some laboratories that served us well in the past may become less relevant, while entirely new facilities will need to be created to support future-focused programmes. Curriculum renewal, industry partnerships, and investment decisions must all be guided by a clear understanding of where opportunities are emerging.

In this environment, strategic planning is no longer a periodic exercise—it is a continuous necessity. Every institution must closely monitor market trends, understand the changing aspirations of students, engage with industry, and proactively design programmes that remain relevant and attractive.

The institutions that succeed in the coming decade will not necessarily be the largest or the oldest. They will be the ones that are agile, adaptive, and willing to reinvent themselves ahead of the curve.

As we move forward, I urge every member of the DMI family to embrace a culture of innovation, flexibility, and continuous learning. Let us anticipate change rather than react to it. Let us build institutions that are prepared not only for today's opportunities but also for tomorrow's possibilities.

Remember: Change before change forces you to change.

With best wishes,

Dr. M. J. Xavier

CEO, DMI Foundations Trust





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St. Joseph University- Palanchur Campus

EVENTS

On 28 April 2026, the Department of Computer Science and Applications organized a guest lecture on "Smart Irrigation System with IoT Integration Using Deep Learning Techniques" by Dr. S. Neduncheliyan. The session provided insights into the use of IoT and deep learning for efficient and sustainable irrigation practices.



On 5th May 2026, the University Day and Cultural Day were celebrated to recognize students' excellence in curricular, co-curricular, and extracurricular activities. The chief guest of the programme was Rev. Sr. Dr. S. Gnanaselvam. The event highlighted the achievements and talents of students through various cultural performances and award presentations.



From 6th to 8th May 2026, the School of Science and Humanities conducted a workshop on "Creative Intelligence: AI & ML." The session was led by Shruthi Paul and provided students with practical exposure to AI and ML concepts and applications.





OneYes Infotech Solutions Incubation Centre Inauguration

On 6th May 2026, the OneYes Infotech Solutions Incubation Centre was inaugurated by Dr. V. Subbiah Bharathi in the presence of the Registrar. Dr. Paneerselvam explained the centre's objectives and opportunities, while the Vice Chancellor emphasized the importance of Knowledge, Attitude, and Skill (KAS) for career growth. The event concluded successfully with active student participation.



Hands-on Training Programme on Smart Systems: AI & ML Bootcamp

From 11th to 13th May 2026, the School of Engineering and Technology conducted a hands-on training programme on "Smart Systems: AI & ML Bootcamp." The programme was led by Shruthi Paul and provided students with practical exposure to AI and ML concepts, enhancing their technical and problem-solving skills.



From 20th to 22nd May 2026, the School of Engineering and Technology of St. Joseph University organized a workshop on "IoT Training" in collaboration with Blue Nile Software Systems Pvt Ltd. The workshop provided students with practical exposure to Internet of Things (IoT) technologies and their real-world applications, enhancing their technical and industry-oriented skills.



Seminar on AI Tools for Research



On 30th April 2026, a seminar on "AI Tools for Research" was conducted in hybrid mode (online and offline) with 110 participants. The session was delivered by Dr. S. Senthil Kumar and provided valuable insights into the use of AI tools for research and academic development.



Research Publication

Sandeep Singhal published a research article titled “CNN vs SVM: Unveiling the Superior Model for Diabetic Retinopathy Detection” in the IEEE 3rd Global Conference on Wireless Computing and Networking. The study focuses on AI-based approaches for diabetic retinopathy detection.

Hybrid intelligent framework for energy-efficient and sustainable industrial wireless sensor networks

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Submitted: 1 February 2026 • Accepted: 21 April 2026 •
Published Online: 11 May 2026



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ABSTRACT

Industrial Wireless Sensor Networks (IWSNs) play a vital role in today's Industrial Internet of Things (IIoT) systems. The existing Enhanced Energy Optimization Model has made progress in improving energy use; however, it still faces issues with adapting to changing network traffic, slow clustering convergence, and limited optimization capabilities. To address these problems, this paper presents a hybrid intelligent framework that improves energy savings, clustering convergence, and adaptive network optimization in IWSNs. The new model combines Enhanced Ant Colony Optimization (EACO) for efficient clustering, an Improved Artificial Bee Colony (I-ABC) algorithm for ongoing energy parameter adjustments, and a Graph Neural Network (GNN)-based predictor for adapting to changing topologies and traffic conditions. EACO provides fair cluster-head selection and minimizes control overhead, while I-ABC adjusts transmission power and duty cycles to reduce energy loss. The GNN module captures spatial correlations between sensor nodes to provide proactive energy prediction and adaptive reconfiguration, with lower training overhead than deep reinforcement learning. Experimental results on benchmark IWSN datasets verify that the proposed EACO-I-ABC-GNN framework exhibits 18%–25% better overall energy efficiency, a 22% increase in network lifetime, and 15% improved clustering stability compared to the baseline EEO and traditional hybrid methods. These findings validate that

Dr. Dabora Vincy C published a research article titled “Investigation of heat-induced grown KDP single crystal and modified optical and thermophysical properties for optoelectronics applications” in J Mater Science: Mater Electron on 11th May 2026.

CNN vs. SVM: Unveiling the Superior Model for Diabetic Retinopathy Detection

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Abstract—Assessing the effectiveness of Support Vector Machine (SVM) and Convolutional Neural Network (CNN) algorithms in the identification of diabetic retinopathy was the aim of the study. This means assessing the accuracy, sensitivity, specificity, and other relevant metrics of their detection of retinal anomalies associated with the disease. The Detection of Diabetic Retinopathy (DR) dataset, which included 5050 retinal pictures split into two groups, was used in the study. While Group 2 used SVM, Group 1 used a CNN. Thirty was the sample size, with alpha of 0.05, beta of 0.2, a 95% confidence interval, and statistical power estimated at 0.8, according to a statistical study. Python was used for preparing and analyzing the data. The results show that the level of accuracy is higher with the CNN (74.08%) compared to SVM (70.26 percent). The CNN was revealed to be insignificant statistically with $p=0.068$ ($p > 0.05$) therefore underscoring its superiority in the DR detection. The experiment has shown that CNN outperformed SVM in the

retinopathy for heightened accuracy (Behera and Chakravarty n.d.). While SVMs have also been employed in this realm, they are more effective in scenarios with well-defined and linearly separable feature spaces. However, in complex and nonlinear feature spaces, CNNs typically outperform SVMs due to their ability to handle intricate data structures more adeptly (R. et al. 2022).

A thorough examination of the literature reveals a considerable amount of research dedicated to the field of identifying defects in Diabetic Retinopathy. This wide-ranging survey covers numerous academic databases, including 13,900 articles found in Google Scholar, 1645 retrieved on IEEE Xplore, 2951 via ScienceDirect, and 3320 through Springer. Among the multitude of studies, one article

Investigation of heat-induced grown KDP single crystal and modified optical and thermophysical properties for optoelectronics applications

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Received: 11 April 2026
Accepted: 11 May 2026

ABSTRACT

Potassium dihydrogen phosphate (KDP) crystal has established itself as a very desirable material for optical, piezoelectric, and laser applications. This article

Dr. Kannan T published a book titled “Next Generation Deep learning Models: Architecture, Application and Emerging Trends” through Book Byte International Publications in April 2026. The book highlights recent advancements, architectures, applications, and emerging trends in deep learning technologies. ISBN: 9789349129955





St. Joseph University- Tindivanam

ERP VCampus Training (FDP)

An ERP VCampus Training Programme (Faculty Development Programme - FDP) was successfully conducted on 08.05.2026 and 09.05.2026 at the campus. The programme aimed to enhance the knowledge and practical skills of faculty members and administrative staff in effectively utilizing the VCampus ERP system for academic and administrative activities.



MBA DEPARTMENT FIELD VISIT

The MBA Department organized an industrial field visit to Tweezerman India Private Limited, located in Pondicherry, as part of experiential learning for students. The field visit proved to be highly informative and beneficial, helping students bridge the gap between theoretical knowledge and practical application.



EVENTS

Events conducted on 15.05.2026: Quiz, Mehendi, Best out of Waste, No oil No boil. The Pre University Day Events were celebrated with great enthusiasm on 15.05.2026, featuring a variety of engaging and creative competitions for students across departments.





DMI & MMI – HOUSE WARMING CEREMONY

The House Warming Ceremony of DMI & MMI was held with great joy and spiritual significance on 18.05.2026 at the campus. The ceremony was conducted in a solemn and auspicious manner, marking the formal inauguration of the new facilities. The event began with prayers and blessings, invoking prosperity, peace, and success for all future activities in the premises.



UNIVERSITY DAY CELEBRATION

The University Day Celebration was held on 22.05.2026 with great enthusiasm and participation from students, faculty, and guests. A major highlight was the prize distribution ceremony, recognizing academic achievers and competition winners. The event showcased the institution's spirit of unity, creativity, and excellence, concluding on a joyful and memorable note.





DMI COLLEGE OF ENGINEERING

ACADEMIC ACHIEVEMENTS

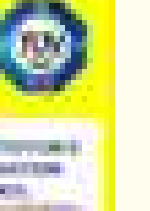
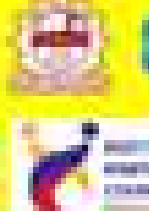
DMI College of Engineering received "THE SPARK AWARD" in recognition of its outstanding contribution towards excellence in education, innovation, academic performance, and overall institutional development by L&T EduTech on 08.05.2026



PLACEMENT

The Department of Training and Placement of DMI College of Engineering has organized a campus placement drive by Tata Electronics for ECE and EEE students with a salary package of ₹4.5 LPA

**DMI COLLEGE OF ENGINEERING**
(AN AUTONOMOUS INSTITUTION)
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DEPARTMENT OF TRAINING AND PLACEMENT

CAMPUS PLACEMENT DRIVE

**2026
BATCH**

**TATA
ELECTRONICS**

SALARY : 4.5 LPA

ELIGIBLE BRANCH : ECE & EEE

DATE : 30.05.2026 - TIME : 09:00 AM

**Venue :
DMICE**







LOYOLA INSTITUTE OF TECHNOLOGY

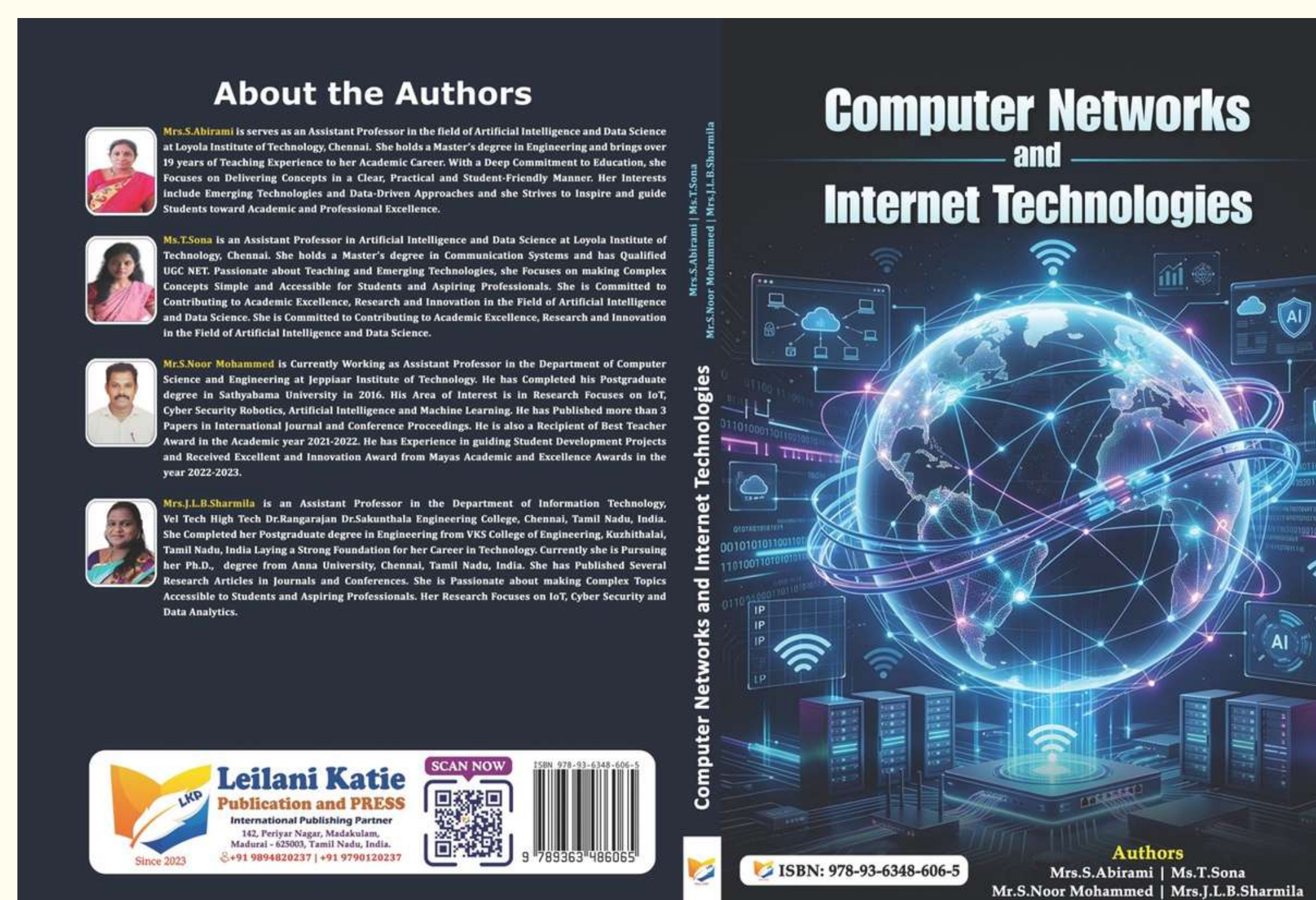
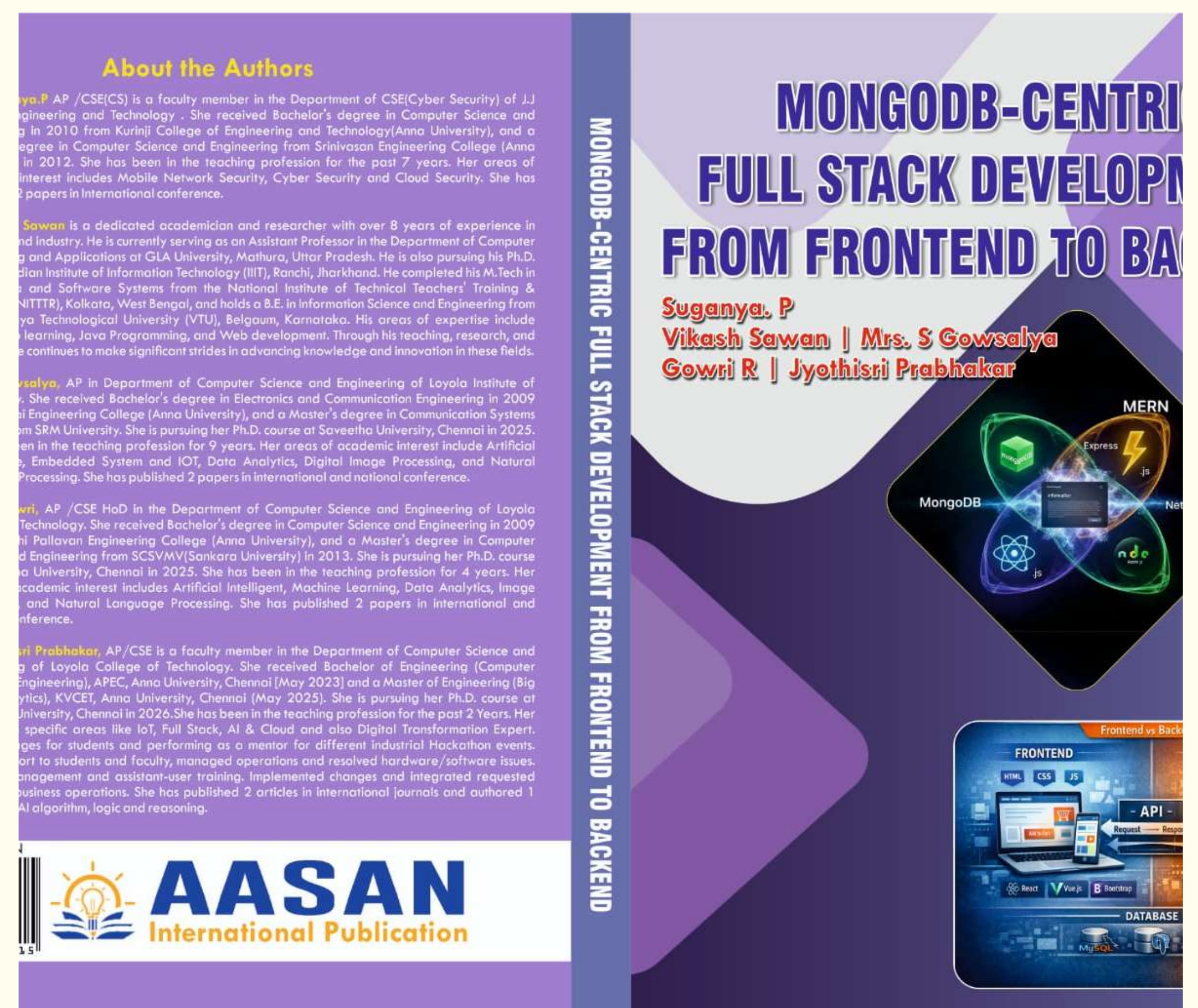
CONFERENCE - RATSTEM

The International Conference on Recent Advances and Trends in Science, Technology, Engineering and Management (IC-RATSTEM 2026) was successfully organized by the Department of Engineering and Management Studies of Loyola Institute of Technology, Palanchur, Chennai, on 12th and 13th May 2026 in hybrid mode.



BOOK PUBLICATION

Mrs S Gowlsalya - Assistant Professor, Mrs R Gowri - Assistant Professor / HOD and Ms Jothishri - Assistant Professor from the Department of Computer science and Engineering successfully published a book titled "MongoDB-Centric Full Stack Development from Frontend to Backend".



Mrs S Abirami - Assistant Professor / HOD, Ms T Sona - Assistant Professor Department of AI&DS successfully published a book titled "Computer Networks and Internet Technologies"



MEMORANDUM OF UNDERSTANDING

On April 20, 2026, Loyola Institute of Technology, Palanchur, Chennai, signed a Memorandum of Understanding with Retech Solutions Pvt Ltd for the Department of Electrical and Electronics Engineering. The collaboration covers curriculum design, technical workshops, guest lectures, and industrial visits, strengthening academic-industry integration.



On April 30, 2026, Loyola Institute of Technology, Chennai, entered into a Memorandum of Understanding with SR TECH, an AI software company, for

The Department of Electronics and Communication Engineering. The collaboration encompasses website design and development, web hosting services, academic project support, software development courses, internship training, and workshops.



PLACEMENT



Loyola Institute of Technology proudly congratulates Sivakumar A, Placement Officer, for receiving the Placement Excellence Award at the OneYes Startup Fest, held on April 16, 2026, at Leo Muthu Stadium, Chennai. This honor recognizes his outstanding contributions in guiding students toward successful career opportunities and strengthening industry collaborations.



ST. JOSEPH COLLEGE OF ENGINEERING & TECHNOLOGY

6TH INTERNATIONAL CONFERENCE

SJCET, Thanjavur, successfully organized its 6th International Conference, providing a platform for research, innovation, and academic exchange. Inspiring addresses by Dr. Sudarkodi and Rev.Sr. M. K. Teresa enriched the event, making it a memorable and impactful academic gathering.

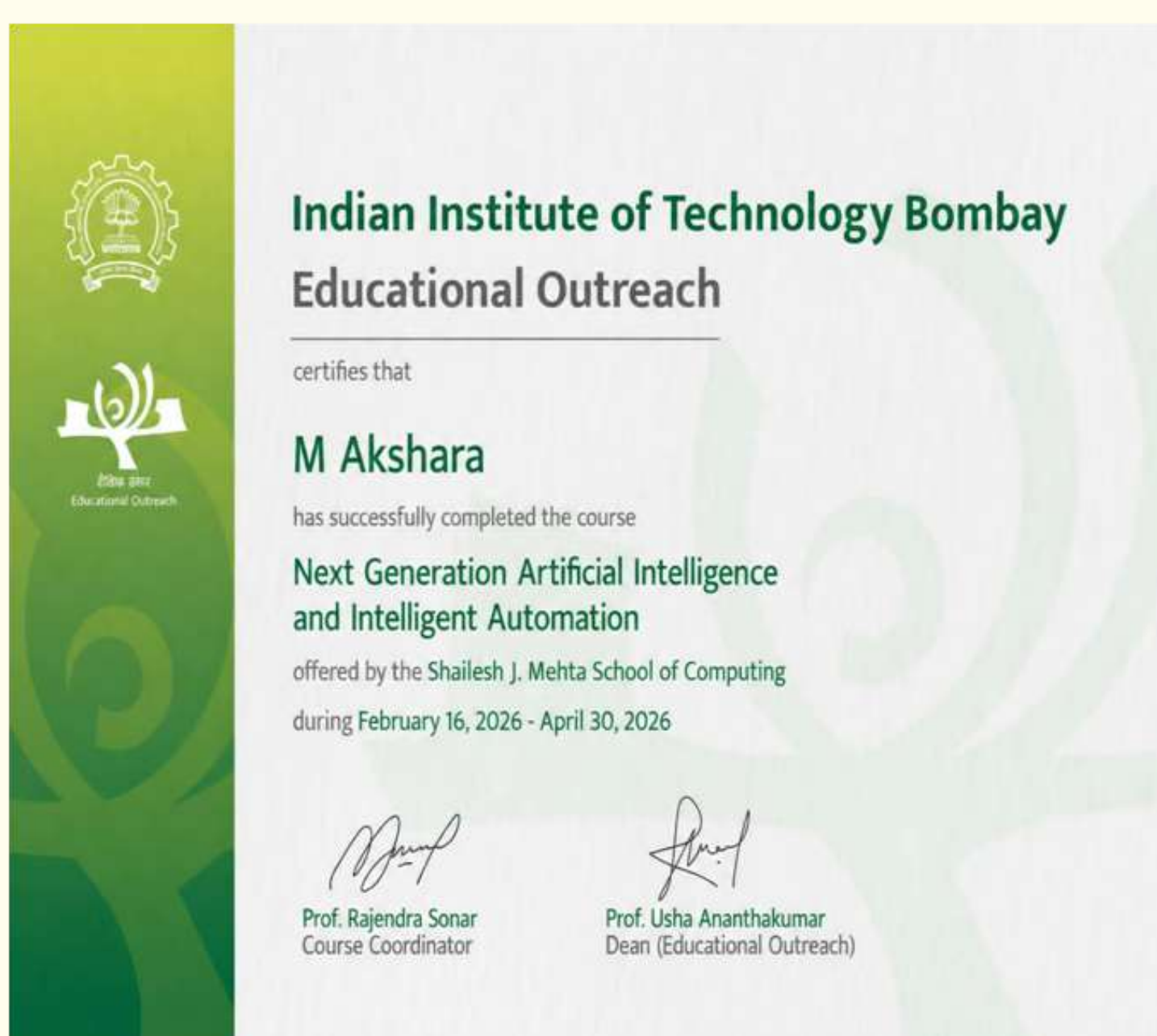


RESEARCH PUBLICATION

Dr. Arulselvan has successfully published a research article with SJCET affiliation. This achievement reflects the department's commitment to research excellence, innovation, and academic contribution in the field of Mechanical Engineering.

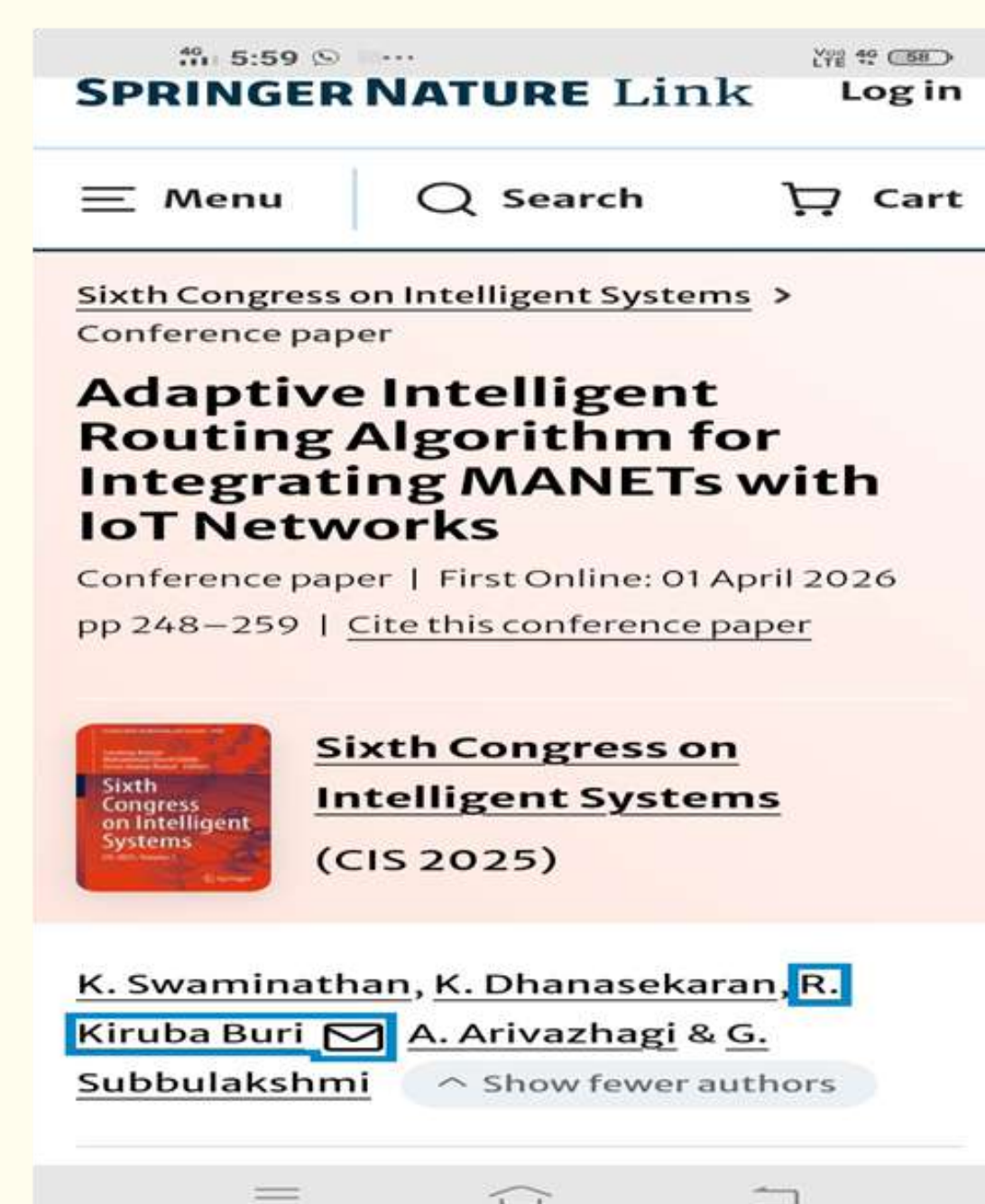


FACULTY ACHIEVEMENT



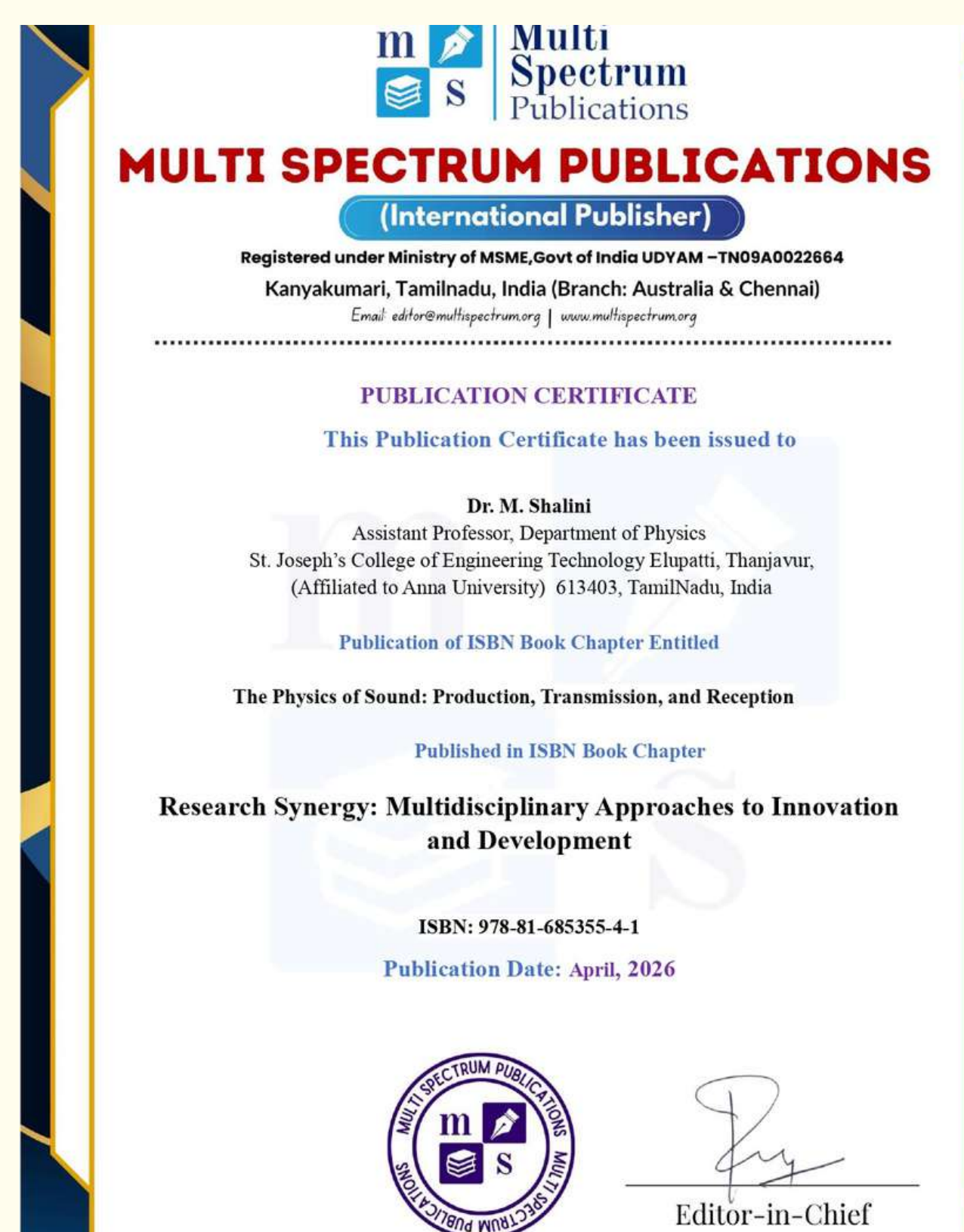
Mrs. M. Akshara has successfully completed the programme on Next Generation Artificial Intelligence and Intelligent Automation conducted by Indian Institute of Technology Bombay. This achievement reflects her commitment to enhancing her expertise in emerging technologies and contributes to the institution's focus on faculty development and technical excellence.

Mrs. Subulakshmi has successfully published a conference paper in the Sixth Congress on Intelligent Systems through Springer Nature. This achievement highlights her contribution to research in intelligent systems and reflects the institution's commitment to academic excellence and innovation.





Mrs. A. V. Dhivya Priyal has successfully published one book chapter, and Dr. M. Shalini has published two book chapters through MultiSpectrum Publications. Their achievements reflect their commitment to research, academic excellence, and knowledge dissemination in their respective fields.



TRAINING & PLACEMENT CELL

The Training and Placement Cell celebrated Placement Day-2026 on 08.05.2026, marking a significant achievement in the institution's placement record. Over 22 reputed companies participated in the placement drive, and around 250 offer letters were distributed to students. The event highlighted the success of the students, the efforts of the T&P Cell, and the strong industry-institution collaboration.





ST. JOSEPH COLLEGE OF ENGINEERING, NEMILI

7 DAYS NSS CAMP

The NSS Unit of St. Joseph College of Engineering successfully organized a seven-day Special Camp in an adopted village to promote social responsibility and community engagement. NSS volunteers participated in cleanliness drives, tree plantation, health awareness campaigns, educational activities, and community service programs. The camp enhanced students' leadership, teamwork, and communication skills while creating a positive impact on the local community.



NPTEL STARS AWARDS



St. Joseph College of Engineering celebrated the achievements of its faculty members in the NPTEL Stars Awards. S. Karthi received the NPTEL Discipline Star award, while V. Antony Suresh and P. Samee were recognized as NPTEL Believers. Paul T. Jeba was honored as an NPTEL Enthusiast, and P. Suresh earned the Faculty Domain – Advanced distinction. Their achievements reflect the institution's commitment to academic excellence and lifelong learning.

The faculty members and students of the Science and Humanities Department have successfully completed 40 NPTEL subjects, showcasing their commitment towards continuous learning, academic excellence, and skill enhancement through online certification courses.





CHRIST THE KING ENGINEERING COLLEGE, COIMBATORE

FAREWELL DAY CELEBRATION

Farewell Day celebrations were organized by all departments, the Boys Hostel, and the Girls Hostel on 21.04.2026 and 23.04.2026 for the outgoing final-year students. The events featured cultural programs, games, and interactive sessions, creating a memorable occasion filled with joy, gratitude, and cherished memories for the graduating batch.



FACULTY ACHIEVEMENTS

Mr. S. Giridharan has been selected for the CEE Program, a prestigious initiative of the Indian National Academy of Engineering in collaboration with the Infosys Foundation and All India Council for Technical Education, conducted at Indian Institute of Technology Madras. Participants in the program are eligible to receive a stipend of up to ₹50,000.



NPTEL DOMAIN CERTIFICATION

Mr. J. Edison Thangaraj (AP/Mechanical Engineering), Mrs. S. Dhanalakshmi (AP/EEE), Mrs. B. T. Tarani Sree Sakthi (AP/EEE), and Mrs. S. Prabhavathy (AP/ECE) successfully completed the NPTEL Domain Certification.





STUDENT ACHIEVEMENTS



CKEC Proudly congratulates Ms. S. Abinaya, a student of the Department of Mechanical Engineering, for being selected to participate in the popular reality show “Tamizha Tamizha” telecast on Zee Tamil Channel.

PATENT PUBLISHED

The publication of an Indian Patent titled “A Reinforcement Learning-Based Resource Allocation System for Edge Computing Networks” with Patent Application No. 202641025709 A filed on 05.03.2026 and published on 20.03.2026. The invention was developed by Mrs. R. Sujitha, HOD/IT; Mrs. P. Geethanjally; Mrs. J. Jenifer Nesamani; Mr. M. Vetrivelvan; Mrs. P. Sujitha along with the faculty members of the Department of Information Technology, in collaboration with Dr. A. Kingsly Jebakumar, HOD/ECE; Dr. M. Muthukrishnan, Director/IQAC; and Dr. S. Dinesh Kirupha., Director/Research.



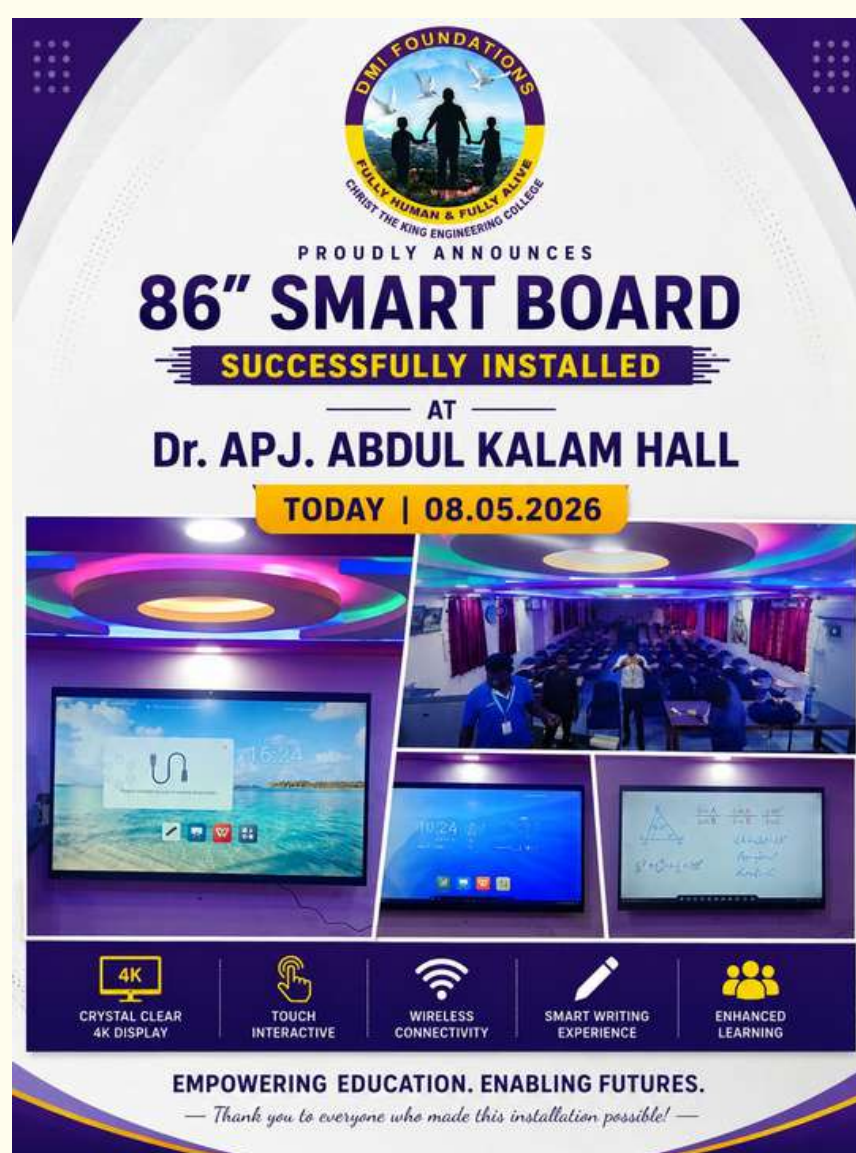
SPORTS PARTICIPATION



CKEC sponsored the District Level Kabaddi Tournament held at Kannarpalayam, Karamadai demonstrating its commitment to encouraging sports and physical fitness among young athletes. Dr. Y. Robinson, Principal, Mr. Jayasudharasan, Physical Director, and Mr. K. Karthik, AP/Mathematics, represented the institution at the inaugural function.



INFRASTRUCTURE DEVELOPMENT



CKEC continues to strengthen its technology-enabled learning environment with the successful installation of an 86-inch Smart Board in the Dr. A.P.J. Abdul Kalam Hall on 08.05.2026. Equipped with a 4K crystal-clear display, touch-interactive features, wireless connectivity, and smart writing capabilities, the facility enhances the teaching-learning experience and supports modern pedagogical practices.

SOCIAL RESPONSIBILITY INITIATIVE

As part of commitment to community service, Christ the King Engineering College donated a computer system worth Rs. 70,000 to the SP Office, Coimbatore, for installation in the modern control room. The system, featuring an Intel i7 processor, 16 GB RAM, and 512 GB SSD, was handed over through the authorities under the guidance of the Administrator, Principal, and Academic Director.



TOPPER / GOLD & ELITE CERTIFICATION

S.No.	Name	Designation / Dept.	Course	Achievement
1	Y Robinson	PRINCIPAL	Assessment of Student Performance	Elite Silver
2	M Arumuga Babu	HOD / EEE	Assessment of Student Performance	Elite Gold Topper 1%
3	M Arumuga Babu	HOD / EEE	Fundamentals of Digital Marketing	Elite Gold
4	S Dhanalakshmi	AP / EEE	Assessment of Student Performance	Elite Gold Topper 5%
5	B T Tharanisrisakthi	AP / EEE	Ethics in Engineering Practice	Elite Silver
6	B T Tharanisrisakthi	AP / EEE	Assessment of Student Performance	Eliten Gold
7	S Dhanalakshmi	AP / EEE	Ethics in Engineering Practice	Elite Silver Topper 5%

S.No.	Name	Designation / Dept.	Course	Achievement
1	M Arumuga Babu	HOD / EEE	Deep Learning – IIT Ropar	Elite
2	Dr A Kingsly Jabakumar	HOD / ECE	Leadership and Team Effectiveness	Completed
3	J Beryl Jancy	AP / ECE	Leadership and Team Effectiveness	Elite
4	Nithya V	AP / ECE	Leadership and Team Effectiveness	Elite
5	Pavithra L	AP / ECE	Leadership and Team Effectiveness	Elite
6	Prabhavathy S	AP / ECE	Leadership and Team Effectiveness	Elite
7	Pavithra L	AP / ECE	Outcome based Pedagogic Principles for Effective Teaching	Elite
8	B T Tharanisrisakthi	AP / EEE	Towards an Ethical Digital Society: From Theory to Practice	Elite
9	B T Tharanisrisakthi	AP / EEE	Introduction on Intellectual Property to Engineers and	Completed
10	Nithya V	AP / ECE	Machine Learning, ML	Completed
11	Prabhavathy S	AP / ECE	Machine Learning, ML	Completed
12	Yamunarani S	AP / ECE	Outcome based Pedagogic Principles for Effective Teaching	Completed





DMI ENGINEERING COLLEGE, ARALVAIMOZHI

FACULTY ACHIEVEMENT

Mrs. Monisha Raju successfully mentored student teams for Niral Thiruvizha 3.0. Under her guidance, the projects NutriNova AI – Health and Fitness App and Career Lens – Job Recommendation App were selected among the top 500 teams from 24,411 participants, reflecting excellence in innovation and mentorship.

Ms. Sheeba D has published two research papers in reputed IEEE journals/conferences on colon cancer classification using deep learning and adaptive traffic management for emergency vehicle prioritization, showcasing her contributions to AI-driven research and innovation.



Real-Time Adaptive Traffic Management System for Emergency Vehicle Prioritisation

Publisher: IEEE

Cite This

<< Results | Next >

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Computer Science and Engineering, DMI Engineering College, Kanyakumari, India

Abstract Authors Figures Reference

Abstract: Urban traffic congestion significantly delays emergency vehicle response times, leading to severe consequences such as increased mortality rates and delayed medical inter... [Show More](#)

Deep Learning-Based Colon Cancer Classification: A Fusion and Attention-Based Approach using VGG16, ResNet50, and DenseNet121

Publisher: IEEE

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J. Marimuthu ; N. Nisha Rosebel ; B. Naga Prasanna ; Sheeba D ; J. Gold Reulath Patturose ; Sankara Rao Allada

Computer Science and Engineering, DMI Engineering College, India

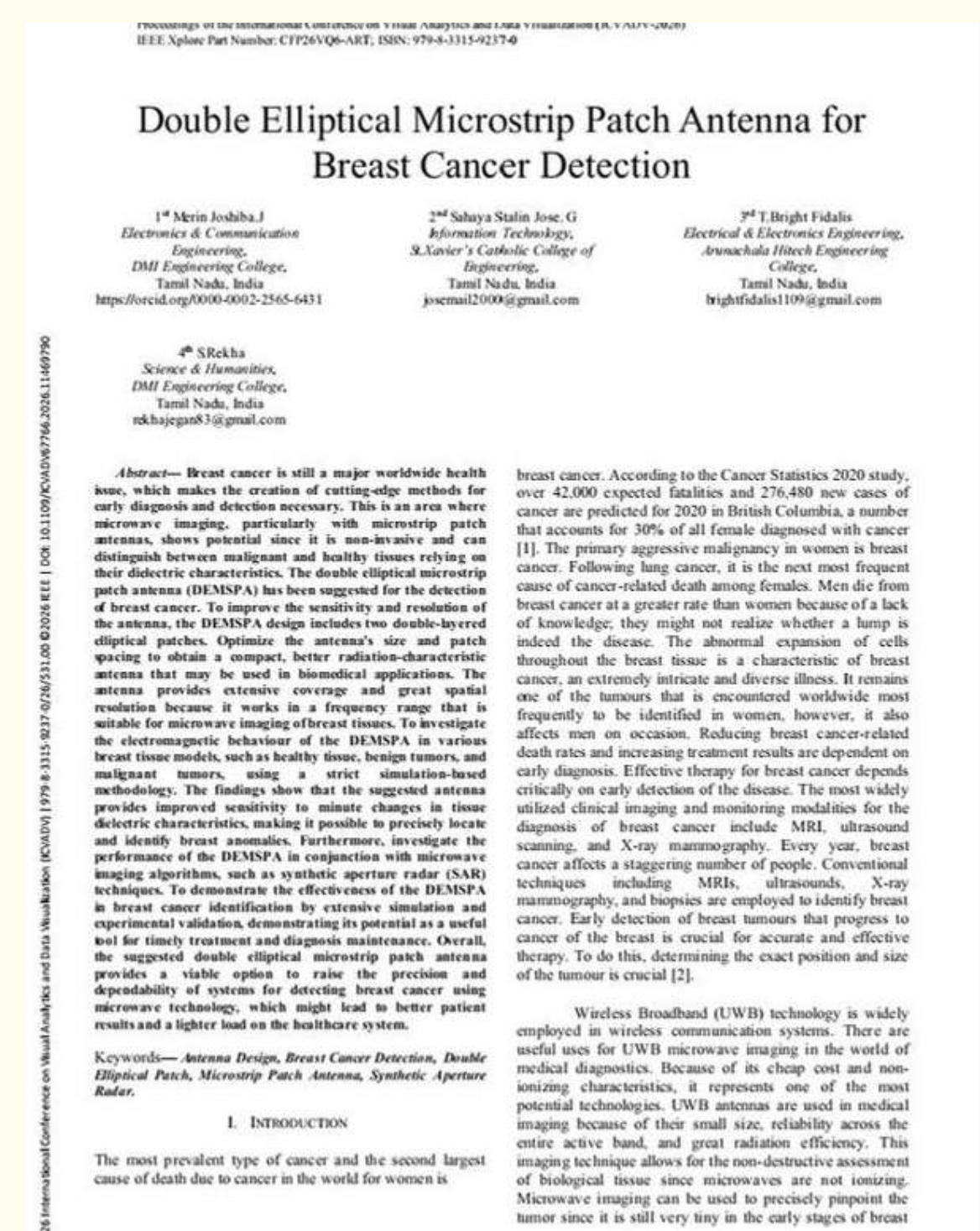
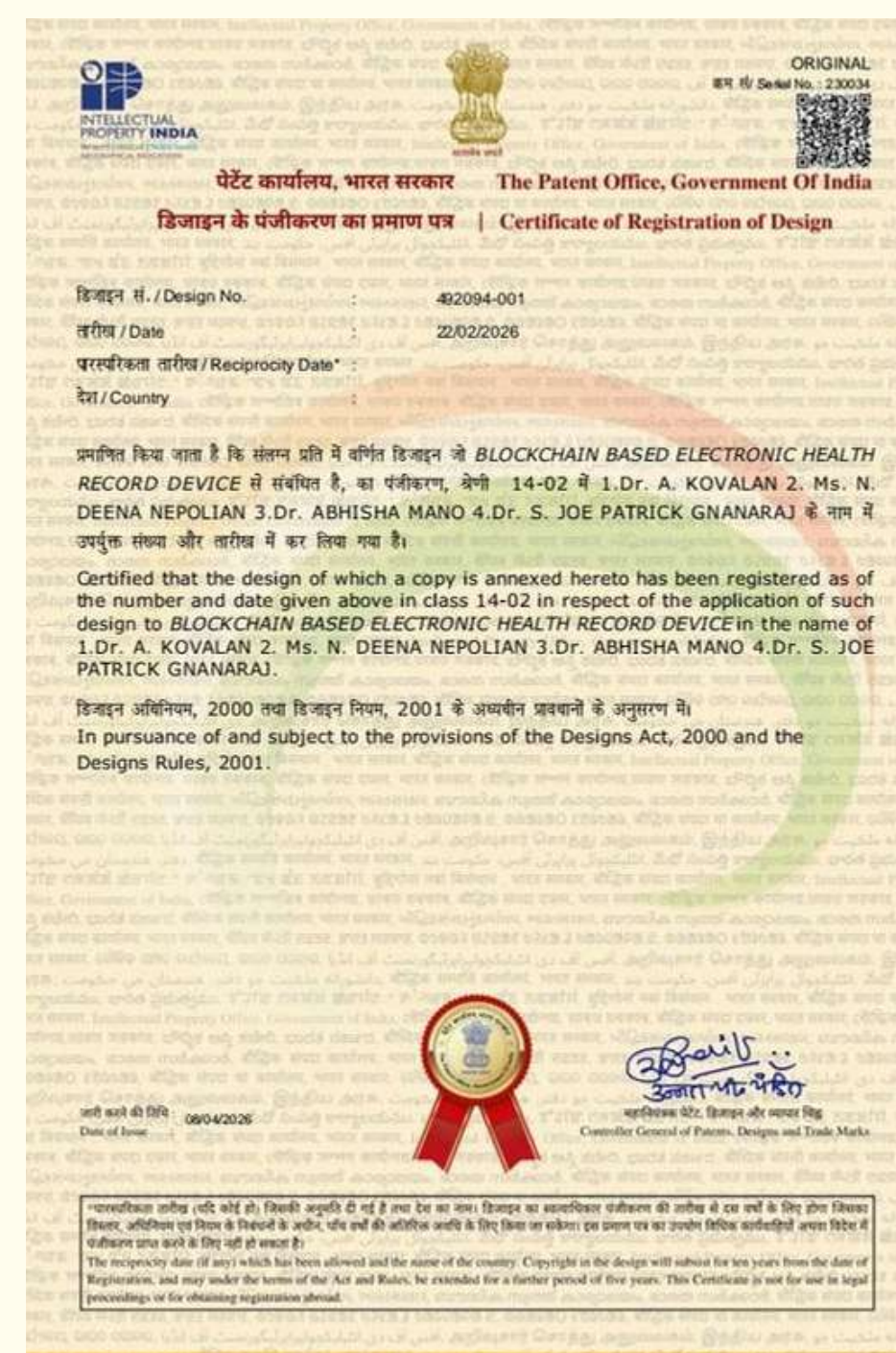
Abstract Authors Figures Reference

Abstract: It is important to test colon cancer in histopathological images successfully to identify the condition and prevent delays in diagnosing the disease. In this paper, it is... [Show More](#)

(32) PATENT APPLICATION PUBLICATION	(21) Application No. 202641044641 A
(19) INDIAN	
(22) Date of filing of Application: 07/04/2026	(43) Publication Date: 24/04/2026
(54) Title of the invention: Pest Identification Using Thermal Image Processing in Agriculture	
(51) International classification:	(71) Name of Applicant : I.D.R. N. Usha Rani Address of Applicant : Associate Professor, Department of Computer Science and Engineering, Sri Venkateswara University College of Engineering, SVU, Tirupati-517502, Tirupati, Andhra Pradesh India. 2.Dr. Manjula A. C 3.Dr. Manjula A. C 4.SHIVAM PRATAP SINGH 5.Saikat Majumdar 6.Prof.(Dr.) Sandeep Gupta 7.Mrs.S.R.BRATHEESHA 8.JAYABHARATHI P (72) Name of Inventor : I.D.R. N. Usha Rani 2.Dr. Manjula A. C 3.Dr. Manjula A. C 4.SHIVAM PRATAP SINGH 5.Saikat Majumdar 6.Prof.(Dr.) Sandeep Gupta 7.Mrs.S.R.BRATHEESHA 8.JAYABHARATHI P
(31) Priority Document No	NA
(32) Priority Date	NA
(33) Name of priority country	NA
(56) International Application No	NA
Filing Date	01/01/1900
(87) International Publication No	NA
(61) Patent of Addition to Application Number	NA
Filing Date	NA
(62) Divisional to Application Number	NA
Filing Date	NA
(57) Abstract: ABSTRACT: Pest Identification Using Thermal Image Processing in Agriculture is a major challenge in modern agriculture, leading to significant crop losses and excessive reliance on chemical pesticides. The present invention proposes an advanced system for pest identification using thermal image processing, enabling early detection and precision intervention. The system utilizes infrared thermal imaging sensors mounted on drones or stationary platforms to capture temperature variations in crops. Since pest-infested plants exhibit distinct thermal signatures due to physiological stress, these variations are analyzed using image processing algorithms and machine learning models. The proposed method integrates real-time thermal data acquisition, preprocessing techniques such as noise reduction and contrast enhancement, and feature extraction to identify abnormal heat patterns associated with pest activity. A trained classification model distinguishes between healthy and infested crops with high accuracy. The system further incorporates a decision-support module that provides actionable insights to farmers, including pest type estimation, infestation severity, and recommended control measures. By enabling non-invasive, rapid, and large-scale monitoring, the invention reduces dependency on manual inspection and minimizes pesticide overuse. Additionally, the integration of IoT-based communication allows remote monitoring and automated alerts. This technology is particularly beneficial for precision agriculture, improving crop yield, reducing environmental impact, and lowering operational costs.	
No. of Pages : 19 No. of Claims : 10	

Assistant Professor Mr. G. Brajith Kumar published a Patent titled "AI-DRIVEN AUTHENTICATION AND ACCESS CONTROL SYSTEM FOR IOT DEVICES". This innovation has far-reaching implications for improving productivity in agricultural produce.

- Dr. J. Merin Joshiba, Assistant Professor, ECE, published a research article on a microstrip patch antenna for breast cancer detection, supporting early and accurate diagnosis.
- Dr. Abhisha Mano, Assistant Professor, ECE, contributed to the registered design of a Blockchain-Based Electronic Health Record Device, promoting secure healthcare data management.

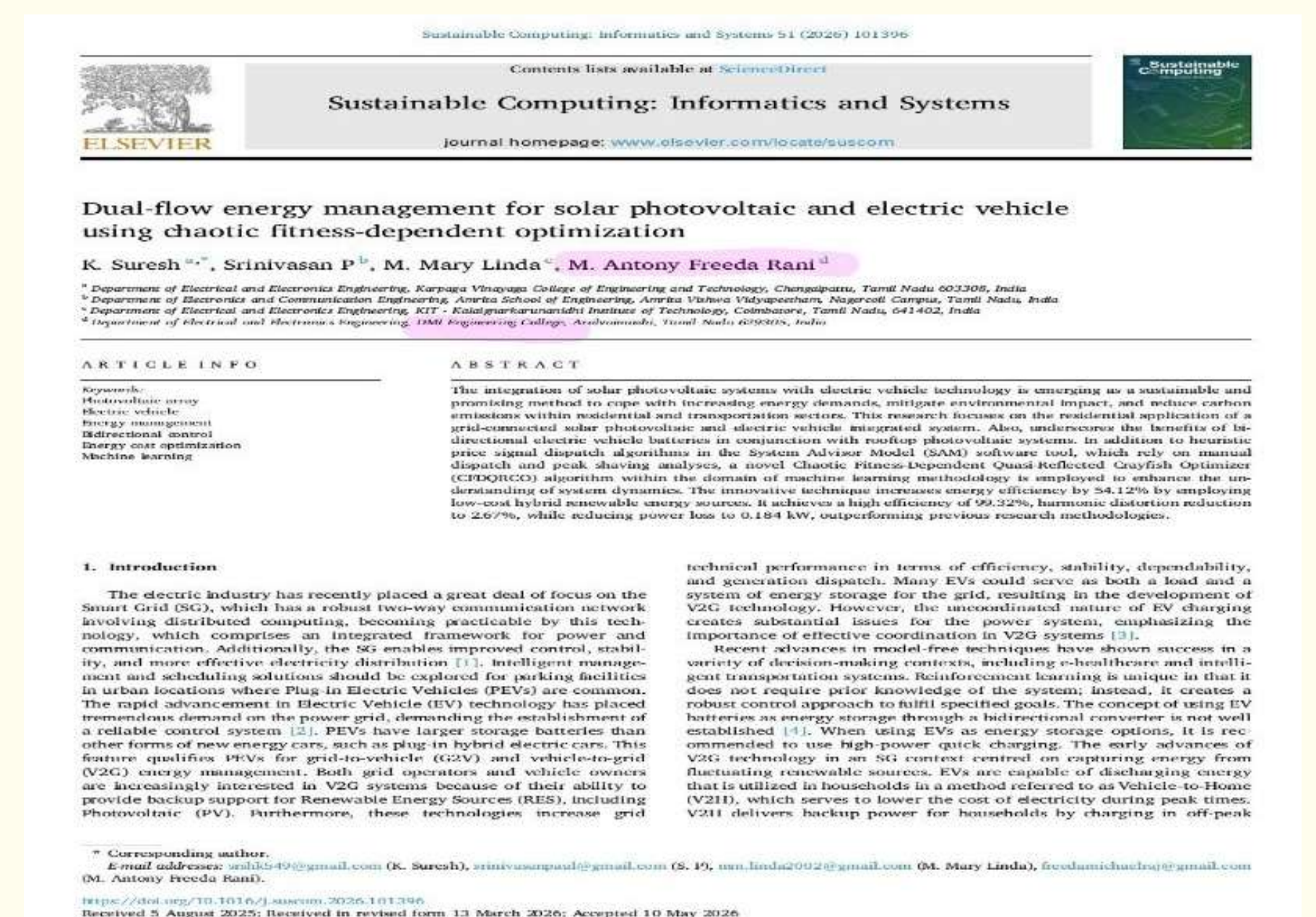




Dr. B. Baron Sam, HOD/AI&DS, and Ms. C. Ajila Jeya Reeta, AP/AI&DS, presented their paper, "Decentralized Framework for Secure Digital Certificate Generation, Storage and Verification Using Blockchain Smart Contract System," at ICIMA-2026, held at Muthayammal Engineering College, Rasipuram, Tamil Nadu, during 13-15 May 2026.



Dr. M. Antony Freeda Rani, HOD/EEE published the research paper titled "Dual-flow Energy Management for Solar Photovoltaic and Electric Vehicle using Chaotic Fitness-dependent optimization" in SCI journal of "Sustainable Computing: Informatics and Systems".



Dr. A. Anbu Megelin Star has published a research article titled "Electrochemical Impedance Spectroscopy Analysis of Lithium-ion Batteries" in an IEEE conference. This paper will extend the realm of expertise in battery operations which is essential in modern fuel-saving measures.





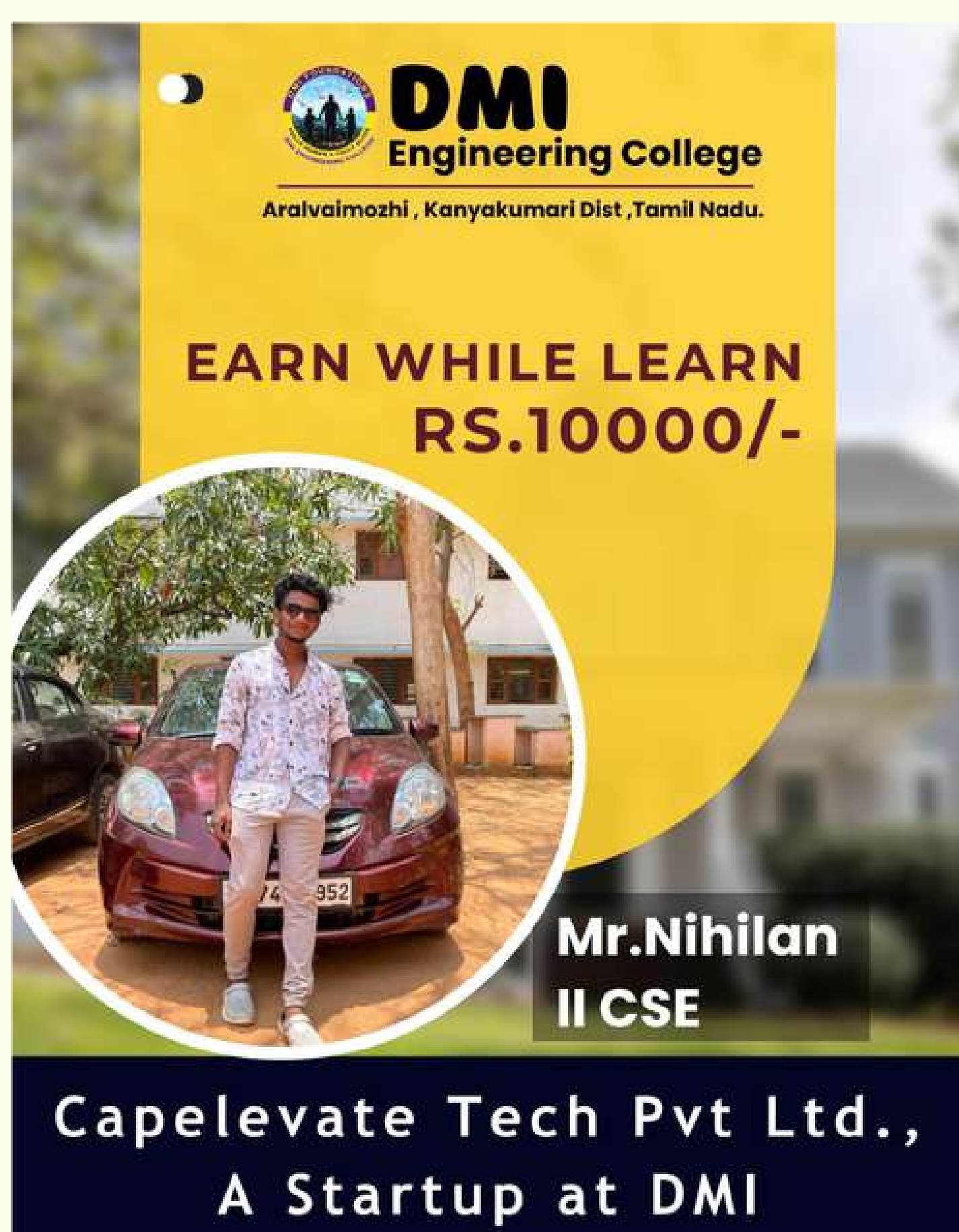
DMIEC, ARALVAIMOZHI



The Department of Electronics and Communication Engineering, DMI Engineering College, in collaboration with Globethics South Asia Centre, successfully conducted a 6-Day International Faculty Development Programme (Hybrid Mode) on “Ethical Enhancement of AI in Academic Excellence” from 18–23 May 2026. The programme attracted 194 participants including faculty members, researchers, administrators, AI practitioners, and students.

STUDENTS' ACHIEVEMENTS

Varsha S, Shanmugapriya, Sukanya M, Sathish R, Sabin S, Vindhiya P S, and Selin S showcased their innovation in Niral Thiruvizha 3.0. Their projects, NutriNova AI – Health and Fitness App and Career Lens – Job Recommendation App, were selected among the Top 500 teams out of 24,411 participants.



Mr. Nihilan has secured an opportunity through the “Earn While You Learn” initiative with a stipend of ₹10,000. This achievement reflects his academic excellence, practical skills, and industry readiness.



J.P. COLLEGE OF ENGINEERING, TENKASI

EVENTS

J.P. College of Engineering successfully conducted the grand opening of JPCOE Startup on 06 May 2026 at the JPCOE Campus. The event showcased innovative startups and inspired young entrepreneurs towards creativity, technology, and a self-reliant nation.



STUDENTS ACHIEVEMENTS

J.P. COLLEGE OF ENGINEERING
RUN BY DMI SISTERS
Affiliated to Anna University | Approved by AICTE
Ayudhi, Tenkasi - 627652

FINAL YEAR PROJECT PUBLICATION

The Final Year Mechanical Engineering students have successfully published their final year project work as a research paper titled "DESIGN AND COMPARATIVE CFD ANALYSIS OF AERODYNAMIC PERFORMANCE OF RACE CAR FRONT AND REAR WINGS" in the Journal of Emerging Technologies and Innovative Research (JETIR), Volume 13, Issue 5, May-2026 (ISSN: 2349-5162). This achievement reflects the students' strong technical knowledge and research capability. The work was successfully carried out under the guidance of Mr. R.SIDDHARTHAN, Assistant Professor, Department of Mechanical Engineering.

CONGRATULATIONS TO

BENIYAL ARPUTHARAJ D

VIMALRAJ M

ARUNMATHAN M

MECHANICAL ENGINEERING

DESIGN AND COMPARATIVE CFD ANALYSIS OF AERODYNAMIC PERFORMANCE OF RACE CAR FRONT AND REAR WINGS

Final year Mechanical Engineering students of J.P. College of Engineering successfully published their project work as a research paper in the Journal of Emerging Technologies and Innovative Research (JETIR). The research paper titled "Design and Comparative CFD Analysis of Aerodynamic Performance of Race Car Front and Rear Wings" highlighted the students' technical knowledge and research skills

Final year Mechanical Engineering students of J.P. College of Engineering successfully published their research paper titled "Experimental Investigation of Solar Dryer by Using Different Commodity" in the Journal of Emerging Technologies and Innovative Research (JETIR).





II year AI & DS students of J.P. College of Engineering successfully published their research paper titled" AI-Powered Artificial Leaf Energy Generator for Clean Hydrogen Production" in the International Journal of Innovative Research in Technology (IJIRT).



II year AI & DS students of J.P. College of Engineering successfully published their research paper titled" AI-Powered Artificial Leaf Energy Generator for Clean Hydrogen Production" in the International Journal of Innovative Research in Technology (IJIRT).



FACULTY ACHIEVEMENTS

Dr.T.Arun srinivas, ASP/EEE, has published his work titled "Precision AI Solutions for Automating Fruit Harvesting and Ripeness Detection in Orchard" in IEEE international conference on smart futuristic technology.





ST. JOSEPH'S COLLEGE (ARTS & SCIENCE), KOVUR

ISO AUDIT

The ISO 21001:2018 Surveillance Audit was conducted from 05.05.2026 to 07.05.2026 over a period of three days to evaluate the institution's Educational Organization Management System and its compliance with ISO standards.



ACADEMIC AND ADMINISTRATIVE AUDIT



The Internal Quality Assurance Cell (IQAC) organized the Internal and External Academic Audit for the Odd Semester of the academic year 2025-2026 on 06.12.2025 at the Syndicate Room.

The external audit team consisted of Dr. S. Rega, Principal, Madha Arts & Science College, Chennai and Dr. O.S. Vedavalli, Asst. professor, Dept. of Corporate Secretaryship, Pachaiyappa's College, Chennai - 30.

STAFF ACHIEVEMENTS

Dr. M. Julien Mary participated in academic research and successfully published a paper in the Pramana Research Journal. The research article titled "Nature as Teacher: From William Wordsworth to Climate Resilience in a Changing World" was published in Year-14, Issue-55 (April-June 2026) of the journal.





PLACEMENT ACTIVITIES



Students from different departments were selected in the campus recruitment drive and received their offer letters from the Dean of Science.

MERIT SCHOLARSHIP TEST

Our college initiated the Merit Scholarship Process for the academic year 2026–2027 with the objective of encouraging academic excellence and supporting deserving students. As part of this initiative, a Scholarship Test was successfully conducted on 21.05.2026.



FOUNDER FATHER MEETING

On 7th May 2026, the Principal and Administrator met the Chairman Father at his office and confirmed the Convocation date and other related details in the presence of the Directors of Higher Education and Quality Control.





JP COLLEGE OF EDUCATION – TENKASI

ACADEMIC ACTIVITIES

Our JP College of Education, Tenkasi first and second year Students are attended the UNNATHI Programme on May Second week for 11-15, 2026 at JP College of Education first year class room and St Peeter Hall.



INTERNATIONAL CONFERENCE

On 22 May 2026, JP College of Education organized an International Conference on “Reskilling and Upskilling in the Era of AI-Powered Education – JPAIPE_26.” Rev. Sr. Dr. I. Arokia Mary, Correspondent of DFT Group of Colleges, delivered a special address on the importance of AI technology in education and the need to embrace technological advancements.

The keynote session was presented by Dr. K. Thiyagu, who spoke on “Reskilling and Upskilling in the Era of AI-Powered Education,” highlighting the significance of continuous learning and skill development for educators and students in the AI era.



VALEDICTORY FUNCTION



On 22 May 2026, JP College of Education conducted its Valedictory Function. The chief guest, Rev. Sr. L. Gnanakannu, addressed the gathering and encouraged the participants to continue their pursuit of knowledge, excellence, and service. The function concluded with the distribution of certificates and a vote of thanks.



DMI COLLEGE OF EDUCATION, PALANCHUR

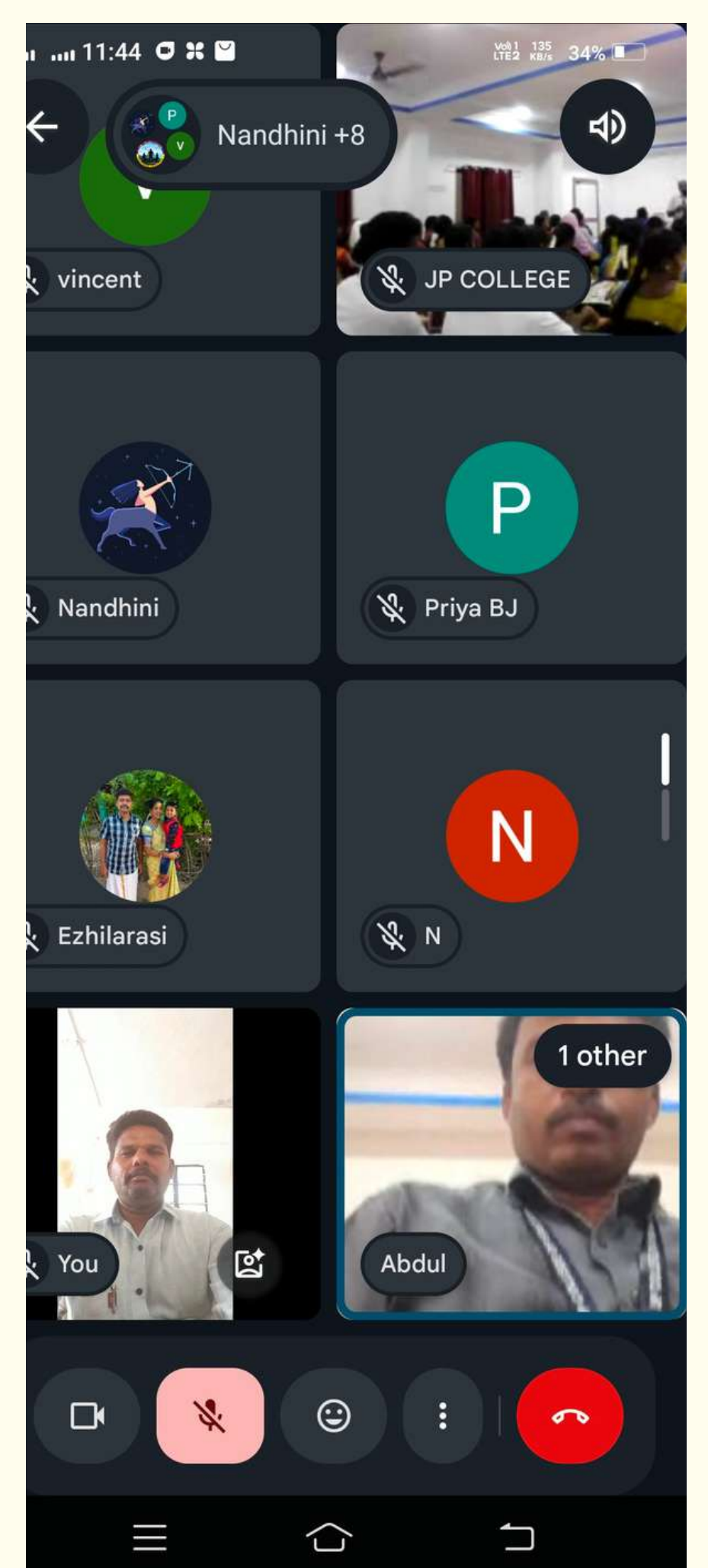
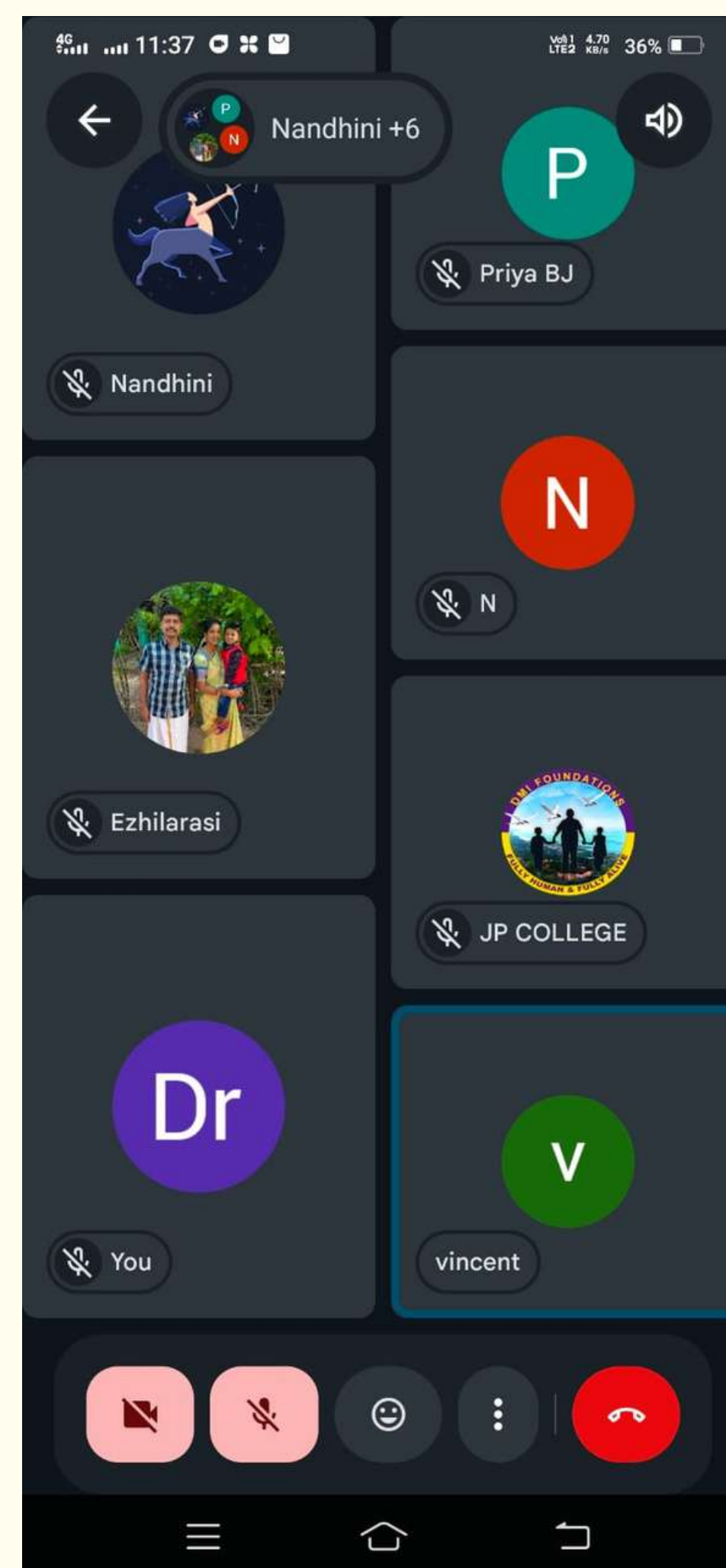
FACULTY DEVELOPMENT PROGRAMME

On 16.05.2026, DMI College of Education conducted a Faculty Development Programme for its teaching staff. The programme focused on enhancing pedagogical skills, technology integration, and professional competencies. Faculty members actively participated and gained valuable insights for improving teaching effectiveness and academic excellence.



TET/TRB/CTET/TNPSC

We have conducted the collaborative activity on 27th May 2026, DMI College of Education and JP College of Education conducted coaching class through online for student teachers aiming to secure government jobs through competitive examinations such as TET, TRB, TNPSC, and CTET. The programme was organized to enhance the knowledge, teaching aptitude, and competitive examination skills of aspiring teachers by providing guidance on examination patterns, syllabus, preparation strategies, and effective learning methods. Student teachers from DMI College of Education actively participated in the online sessions and benefited from the expert guidance and motivational support provided, which encouraged them to prepare effectively for future government teaching opportunities.



TREE PLANTING

On 05.05.2026, DMI College of Education organized a Tree Planting and Garden Visit Programme to promote environmental awareness. Students actively participated in planting saplings and learned the importance of nature conservation and sustainable living.





ANGEL COLLEGE OF EDUCATION, RAJAPALAYAM

SWAYAM ACHIEVER

The SWAYAM July 2025 Semester Examination results were declared by the Consortium for Educational Communication. Mr. G. Pitchaimani secured 3rd Rank in the examination and was recognized by CEC as one of the Top Three Performers, bringing laurels to the institution.



INTERNATIONAL CONFERENCE

On 22.05.2026, the Principal, Assistant Professors, and Student Teachers of DMI College of Education participated in the International Conference on "Reskilling and Upskilling in the Era of AI-Powered Education (JPAIPE-26)" organized by JP College of Education. The participants gained valuable insights into AI-powered education and received certificates of participation along with the ISBN conference proceedings soft copy.

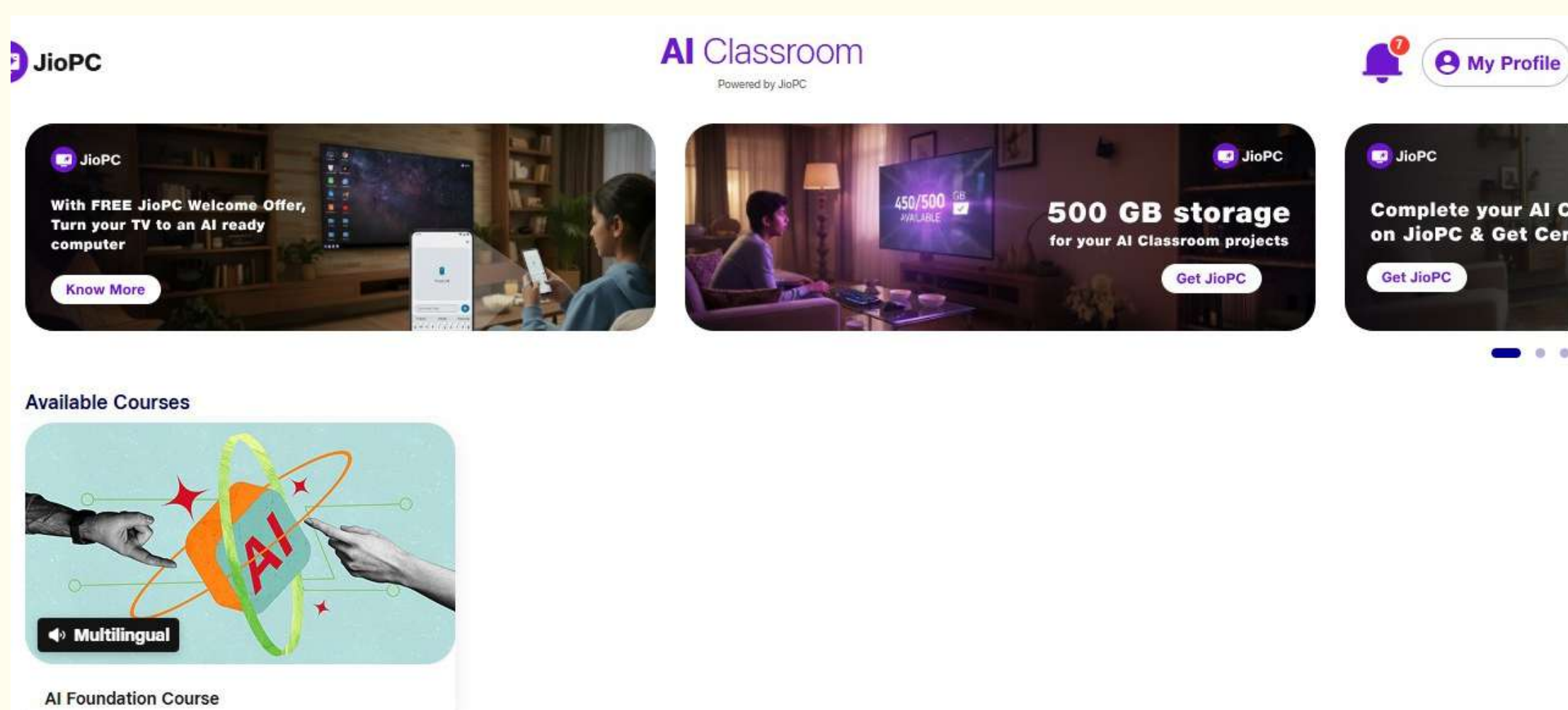


ORIENTATION PROGRAM

On 23.05.2026, DMI College of Education organized an Orientation Programme on "Connecting Minds and Creating Futures." Mr. B. Ravi Chandran emphasized the importance of activity-based learning in developing students' skills and preparing them for the future.



AI COURSE



Mr. G. Pitchaimani monitored the quiz and assignment activities of the AI Course – Module/Week 03. Assistant Professors and Student Teachers actively participated and completed the assigned tasks successfully.



DMI KONNECT



Monthly Newsletter of DFT Group of Institutions

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