SRM MADURAI
COLLEGE FOR ENGINEERING AND TECHNOLOGY
(Approved by AICTE, New Delhi | Affiliated to Anna University, Chennai)
Pottapalayam, Sivagangai District - 630 612

SRM MCET

NEWS BULLETIN

VISION

To establish SRM Madurai College for Engineering and Technology as a pioneering center for Research and Development to foster a culture of

MISSION

- To nurture a vibrant research culture that promotes creativity, and critical thinking among faculty members and students.
- To disseminate research findings through publications, Conferences, and knowledge transfer activities, contributing to the global scientific community.
- To actively engage and inspire the next generation of engineers, fostering a spirit of lifelong learning and a passion

RESEARCH & DEVELOPMENT CELL

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CONTENTS

R&D Details

Activities of the R&D Cell. 1
R&D Meeting 1
R&D Thrust areas 2
Brief notes about publications 3
Consultancy 4
Strategic Research & Management Innovation Centre (SRM-IC) ... 5

STUDENTS CORNER

* SRM MCET SRM-IC Project in-progress 6
* Students Online certification courses from SRMIST 6
Students R&D allied Activities 7

FACULTY CORNER

* Patent Published/Granted 37
* Book and Journal Article Published. 38
* Conference Article Presented / Published 39
* NPTEL Certification Courses Completed. 39
* Webinar Conducted 40
* FDP/Workshop Attended 42
* National Conference Organized 43

SCOPE

The SRM Madurai College for Engineering and Technology's 's bi-annual Research and Development (R&D) News Bulletin aimed at fostering a culture of innovation and academic excellence. This comprehensive publication will highlight the latest research activities, achievements, and opportunities within the institution, serving as a crucial tool for communication and inspiration among students, faculty, and stakeholders. Each issue will be released digitally and in print, featuring in-depth articles on significant research projects and breakthroughs. These articles will provide detailed insights into the methodologies, findings, and implications of the research, alongside interviews with faculty members and researchers discussing their ongoing projects and future directions.

A dedicated "Student Corner" will spotlight student-led research initiatives, innovative ideas, and success stories, while also providing information on available research scholarships, and competitions. This section aims to encourage students to actively engage in research activities and pursue their academic and professional goals. Additionally, the bulletin will cover key R&D events, such as seminars, workshops, and conferences, offering summaries and highlights to keep the academic community informed about the latest developments and opportunities for professional growth.

To facilitate collaboration and networking, the bulletin will feature information on potential research collaboration opportunities with industry partners, other academic institutions, and research organizations. Technical reviews will be another key component, providing summaries and analyses of the latest technological advancements and their implications for engineering and technology.

Recognizing and celebrating research activities is vital to maintaining a motivated and engaged academic community. Therefore, the bulletin will include a section dedicated to acknowledging significant research achievements and awards received by faculty and students.

ABOUT R & D CELL

The Research and Development (R&D) Cell of the institution is dedicated to nurturing a vibrant research culture and enhancing the institution's excellence. The R&D Cell plays a pivotal role in promoting and facilitating research activities among faculty members and students, encouraging innovative thinking and collaboration across various disciplines of engineering and technology.

The R&D Cell provides a robust support system for research initiatives, offering guidance on project proposals, securing funding, and establishing industry partnerships. It actively seeks out opportunities for collaboration with leading research organizations, both nationally and internationally, to broaden the scope and impact of the college's research endeavors.

Key functions of the R&D Cell include organizing workshops, seminars, and conferences to disseminate knowledge. It also assists in the publication of research findings in reputed journals and conferences, thereby enhancing the visibility and credibility of the college's research output. Through its comprehensive support and proactive initiatives, the R&D Cell strives to create an environment conducive to cutting-edge research and development. The SRM MCET encourages faculty members to engage in interdisciplinary and interdepartmental research activities and resource sharing

KEY ACTIVITIES OF THE R&D CELL

Mentoring to Publish Research Articles in Reputed Journals:

The R&D Cell provides comprehensive mentoring to faculty members and students aiming to publish their research articles in reputed journals. This includes guidance on selecting appropriate journals, adhering to submission guidelines, improving manuscript quality through thorough reviews, and navigating the peer-review process. By offering tailored advice and support, the R&D Cell ensures that research outputs meet high academic standards and gain the recognition they deserve.

Extramural Project Related Information Dissemination and Template Circulation:

The R&D Cell actively disseminates information about extramural project opportunities, including available grants, funding agencies, and application deadlines. To streamline the application process, the cell provides standardized templates and guidelines, helping researchers prepare compelling and compliant proposals. This proactive approach increases the chances of securing external funding, thereby expanding the scope and impact of the college's research endeavors.

R&D Ethics in publishing research

Faculties of SRM MCET are aware on their research ethics and it will be followed all relevant ethical guidelines and regulations.

R&D activities for SRM MCET can include conducting research projects, collaborating with industry partners, publishing research papers, organizing conferences and workshops, offering research training and support, and patenting innovations. These activities can help to advance knowledge and contribute to the development of the college and our faculty members and students.

R&D MEETING

The second and third Research Committee meetings were held on January 2, 2024, and March 28, 2024, respectively, at the college's conference hall. These meetings were significant milestones in the ongoing efforts to elevate the institution's research and development activities. Each meeting was attended by a distinguished panel of five committee members, who brought diverse expertise and insights to the discussions. The primary agenda for these

gatherings was to probe into various strategies and initiatives aimed at enhancing the R&D capabilities within the college.

During the January meeting, the committee undertook a comprehensive review of the current research works, assessing their progress and identifying any obstacles faced by the researchers. The members emphasized the importance of timely support and resources, ensuring that all R&D works remain on track and meet their objectives. They also explored new funding opportunities and collaborative partnerships with industry and other academic institutions, recognizing the critical role these play in broadening the scope and impact of research activities.

In the March meeting, the focus shifted to evaluating the outcomes of previously implemented strategies and fine-tuning them. The committee discussed the effectiveness of mentorship programs designed to assist faculty and students in publishing their research in reputed journals. They noted significant improvements in the quality and quantity of publications, attributing this success to the personalized guidance and support provided by the R&D Cell.

Another key topic was the bi-monthly collection and updating of R&D statuses. The committee reviewed the streamlined processes put in place to monitor project progress and discussed ways to further enhance efficiency. This included adopting new digital tools for real-time tracking and reporting, which would facilitate better coordination and resource management.

Information dissemination regarding extramural projects was also a major point of discussion. The committee acknowledged the positive impact of regularly sharing information about external funding opportunities and providing standardized templates for proposal submissions. This initiative has significantly increased the number of successful submission for grant applications. Moreover, the committee deliberated on the monthly R&D-related events organized by various departments. These events have been instrumental in fostering a collaborative research culture, encouraging knowledge sharing, and sparking new ideas and innovations. The committee proposed additional measures to enhance the visibility and impact of these events, such as inviting renowned experts as guest speakers and increasing student participation.

Throughout both meetings, the committee members engaged in vibrant discussions, sharing their perspectives and experiences to develop actionable plans. Their collaborative efforts highlighted a shared commitment to advancing the research capabilities, ensuring that the institution continues to thrive as a hub of innovation and academic excellence.

By the end of the meetings, the committee had established a clear set of objectives and action plans, setting the stage for the next phase of development. These strategic discussions and decisions are expected to significantly bolster the college's research landscape, promotion an environment where groundbreaking research can flourish

R&D THRUST AREAS

- Advanced Materials and Nanotechnology
- Artificial Intelligence and Machine Learning
- Renewable Energy and Sustainable Technologies
- Internet of Things (IoT) and Smart Systems
- Cybersecurity and Information Assurance
- Robotics and Automation
- Quantum Computing and Information

Science

- Transportation and Infrastructure Engineering
- Data Science and Big Data Analytics

Anna University Recognized Supervisors @ SRM MCET

- Dr. S. Durairaj, Principal.
- Dr. A.N. Balaji, Professor, Mechanical Engineering
- Dr. K. Balamurugan, Associate Professor, Mechanical Engineering / R&D Cell.
- Dr. S. Vimalarani, Associate Professor & Head, Electrical and Electronics Engineering
- Dr. R. Ashok Kumar, Assistant Professor & Head, Mechanical Engineering
- Dr. Tharcis, Assistant professor, Electronics and Communication Engineering
- Dr. Deepamangai, Assistant Professor, Electrical and Electronics Engineering
- Dr.M.Pandi, Associate Professor, Information Technology

BRIEF NOTES ABOUT PUBLICATIONS

Faculty publications of our institution encompass a diverse array of research areas, reflecting the institution's commitment to academic excellence and innovation. These publications serve as a testament to the scholarly contributions of faculty members, showcasing their expertise and dedication to advancing knowledge in their respective fields. Across various disciplines, faculty publications address critical challenges, explore emerging trends, and contribute to the global body of research. Here are precise statements outlining the significance and impact of faculty publications in diverse areas:

Advanced Materials Science: Faculty publications in advanced materials science focus on the synthesis, characterization, and application of novel materials with tailored properties along with its challenges and driving innovation in material design and fabrication.

Artificial Intelligence and Machine Learning: Faculty publications in artificial intelligence and machine learning explore cutting-edge algorithms, data analysis techniques, and AI applications across diverse domains.

Renewable Energy and Sustainable Technologies: Faculty publications in renewable energy and sustainable technologies focus on improving the efficiency and reliability of solar, wind, and bioenergy systems. These publications address global energy challenges and promote environmental sustainability through research on renewable energy sources, energy conversion technologies, and sustainable practices.

Internet of Things (IoT) and Smart Systems: Faculty publications in IoT and smart systems contribute to the development of IoT-enabled solutions for smart cities, agriculture, healthcare, and other applications. These publications address issues related to IoT security, privacy, and scalability, driving innovation in IoT technology and its applications.

Cybersecurity and Information Assurance: Faculty publications in cybersecurity and information assurance address the growing challenges of cyber threats and data security. These publications develop robust security protocols, encryption techniques, and risk management strategies to safeguard digital assets and protect against cyber attacks.

Overall, faculty publications demonstrate the institution's commitment to research

excellence and its role in advancing knowledge and innovation across diverse fields. Through their scholarly contributions, faculty members contribute to the academic community and inspire future generations of researchers and innovators.

PATENTS PUBLISHED

Dr.P.Piramanayagam, Assistant professor Dept of Chemistry filed the following 4 four Patents:

1. Title of the invention : INNOVATIVE DNA-BASED NANOPROBES FOR FLUORESCENT IMAGING OF CANCER CELLS,
1st inventor
The Patent Office Journal No. 14/2024 Dt. 05/04/2024
Application No.202441026395 A
Publication Date : 05/04/2024
2. Title of the invention : EXPLORING BISMUTH-BASED DOUBLE PEROVSKITES FOR SOLAR CELLS USING MACHINE LEARNING PERSPECTIVE
2nd inventor
The Patent Office Journal No. 07/2024 Dt. 16/02/2024
Application No.202411008396 A
Publication Date : 16/02/2024

3. Title of the invention : PD-LOADED BISMUTH FERRITE (BIFEO3): A PEROVSKITE FOR ACETONE GAS SENSING AND PHOTOCATALYTIC DYE DEGRADATION
2nd inventor
The Patent Office Journal No. 10/2024 Dt. 08/03/2024
Application No.202441008506 A
Publication Date : 08/03/2024

4. Title of the invention : BISMUTH FERRITE NANOPARTICLES IN FUNCTIONAL NANOCHANNELS: A NOVEL APPROACH TO ENHANCE 4-AMINOPHENOL DETECTION
3rd inventor
The Patent Office Journal No. 10/2024 Dt. 08/03/2024
Application No.202411014908 A
Publication Date : 08/03/2024

Dr.Balamurugan, ASP/ Mechanical Engg, registered the following patent:
Title of the Design: Virtual Reality Headset
Design number: 6337469
Grant date: 23 January 2024

Dr.A.N.Balaji, Professor/ Mechanical Engg, registered the following patent:
Title of the Design: Accident Detector Helmet
Design number: 6349208
Grant date: 05 March 2024

Dr.T.Dhivya, AP/Maths, registered the following patents
1.Title of the invention : INNOVATIVE DNA-BASED NANOPROBES FOR FLUORESCENT IMAGING OF CANCER CELLS as2nd inventor
The Patent Office Journal No. 14/2024 Dt. 05/04/2024
Application No.202441026395 A
Publication Date : 05/04/2024

2.Title of the invention : BISMUTH FERRITE NANOPARTICLES IN FUNCTIONAL NANOCHANNELS: A NOVEL APPROACH TO ENHANCE 4-AMINOPHENOL DETECTION
4th inventor
The Patent Office Journal No. 10/2024 Dt. 08/03/2024
Application No.202411014908 A
Publication Date : 08/03/2024

CONSULTANCY

SRM Madurai College for Engineering and Technology, is committed to delivering excellence in teaching and research aligned with the current and future requirements as per the national Educational Policy of India. Apart from Undergraduate and Postgraduate Programs, SRM MCET actively promotes faculty engagement in

consultancy projects with industry and similar higher learning institutions. This industrial consultancy enhances the institute's research profile, and enhance in creation of new knowledge and expanding the expertise of faculty and staff. This document outlines the processes supporting these endeavors, accompanied by a framework for their implementation.

For additional Information please visit: https://srmmcet.edu.in/wp-content/uploads/2024/05/Consultancy-Policy-UPDATED-SRMMCET-13.05.2024.pdf

Strategic Research & Management Innovation Centre (SRM-IC)

The SRM-IC is a new initiavite at SRM MCET with n objectives are set to encompass the core areas of focus for the Incubation Centre, spanning strategic goals, operational activities, and metrics for evaluating performance and engagement.

VISION

To create a vibrant community of innovators and collaborators, where diverse talents come together to push the boundaries of possibility, create value, and inspire positive change in the world.

MISSION

At Strategic Research & Management Innovation Centre (SRM-IC), our mission is to cultivate the next generation of engineering leaders by providing a dynamic learning environment that nurtures creativity, fosters innovation, and imparts a passion for lifelong learning. We are committed to:

M1: Guiding and supporting aspiring entrepreneurship students in translating their ideas into successful ventures, thereby contributing to economic development and societal well-being.

M2: Facilitate interdisciplinary collaboration and knowledge exchange, bridging the gap between academia, industry, and society.

SRM-IC Students Information's

NAME	DEPT	ROLL NO
Aathish Rao. A.B	CSE	911123104002
Agarshal Isai George J T	AIDS	911123243005
Anantha Kumar S	AIML	911123148007
Ananthi J	EEE	911123105001
Annie Darling Kanmani. A	AIDS	911123243007
Dhanuja K S E	CYBER	911123149007
Dhivya Sri.S	AIDS	911123243011
Gayathri. S. R	AIDS	911123243015
Gnana Dharshan M	AIML	911123148017
Gokulnath R	CSE	911123104011
Gurushruthi M	ECE	911123106011
Hoorul Firthous.A	CSE	911123104018
Irfana Aafrin. A	CYBER	911123149018
Jacinth R	CYBER	911123149019
Karan V	CIVIL	911123103005
Karthick G B	ECE	911123106018
Karthikeyan S	IT	911123205021
Lavanya J D	EEE	911123105008
Madhu Megha .L.M	IT	911123205028
Mega. S	CIVIL	911123103008
Michael Dwight Evanson J	AIML	911123148033
Mridulaa K	ECE	911123106025
Naga Arjun P S	MECH	911123114006
Naveen K S	AIDS	911123243034
Panju.G	CIVIL	911123103010
Ponvannan M	AIML	911123148037
Poornimadevi. R.S	AIDS	911123243036

Rajkumar S	CIVIL	911123103011
Raja Rajeshwari M	ECE	911123106032
Raksha C S S	CYBER	911123149035
Rathika.S	IT	911123205042
Reshma Sri R	CSE	911123104041
Sabshini S	EEE	911123105013
Sandhiya R	CYBER	911123149039
Shobika Sree N R K	IT	911123205049
Sri Harini P	IT	911123205051
Taakshini Devi.R	CSE	911123104053
Thivyan Ks	AIML	911123148054
Vignesh M	EEE	911123105018
Vigneshwaran J S	CSE	911123104055
Viji M	CYBER	911123149057
Vinay Kirithic M R K	IT	911123205058
YOGASHRI.K.O	CYBER	911123149060

ORGANIZATIONAL CHART

STUDENTS CORNER

SRM MCET SRM-IC Project in-progress

SRM-IC student volunteers are currently working on different patent titles. This groundbreaking project aims to revolutionize led by passionate student volunteers. This initiative demonstrates SRM-IC's commitment to innovation and sustainability, paving the way for smarter and more efficient waste management solutions.

Patents under preparation in IDEACAFE

- Design of an AI-Driven Automated Packaging and Sorting Robot
- Design of an AI-Driven Adaptive Robotic Manipulator
- Design of an AI-Enhanced Cybersecurity Monitoring Tool
- Design of an IoT-Based Wearable Health Monitor
- Design of an IoT Smart Appliance Control Interface

Students Online certification courses from SRMIST

Certificate course for was started on 26.02.2024 to 03.03.2024 for SEM MCET students of different departments.

Data Science Tools for AI Applications This received an enthusiastic response from 146 students of various branches from the college. The course duration was 15 days.

Certificate course for IoT Programming. This received an enthusiastic response from 51 students of various branches from the college. The course duration was 15 days.

The Comprehensive Introduction to Python Programming and Data Analysis provided 43 participants with a solid foundation in Python programming essentials and data analysis techniques. The course duration was 15 days.

Certificate Course on CNC Programming and Simulation for Turning and Milling Operations was conducted aim of providing

23 participants with comprehensive knowledge and practical skills in Computer Numerical Control (CNC) programming and simulation for both turning and milling operations. The course duration was 20 hours.

Students R&D allied Activities

At SRM College of Engineering and Technology (SRM MCET), student participation in various activities is not just encouraged, but celebrated. Through events like technical symposiums, workshops, and competitions, students actively engage in hands-on learning experiences. They immerse themselves in hackathons, coding competitions, and paper presentations, showcasing their talents and innovative spirit.

Among them, winners emerge, demonstrating exceptional skills and knowledge in their respective fields. These victories not only bring glory to the institution but also serve as a testament to the students' dedication and hard work.

Participation in such activities goes beyond accolades; it fosters an environment of continuous learning and growth. Students expand their horizons, deepen their understanding of concepts, and acquire practical skills relevant to their academic pursuits and future careers.

Moreover, engagement in extracurricular activities cultivates holistic development. Students hone their leadership abilities, communication skills, and teamwork through organizing events and collaborating with peers.

Through these experiences, students at SRM MCET evolve into well-rounded individuals, equipped with not only technical expertise but also the resilience and adaptability to thrive in a dynamic world.

Vishnukumaran T. P. (911122205306) is a B.Tech IT student with skills in code debugging and paper presentation. He has demonstrated a keen interest in software development and consistently excels in technical challenges. His ability to troubleshoot complex issues and effectively communicate technical concepts makes him a valuable asset in collaborative projects.

Sanjay Deva V (911123148045) is a dedicated BE CSE student with a specialization in Artificial Intelligence and Machine Learning. Throughout his academic journey, he has actively engaged in various events and workshops to enhance his skills and knowledge.

Sanjay showcased his coding skills and competitive spirit at the Code War held at Park Engineering College, where he demonstrated his ability to solve complex problems under pressure. His participation in this event highlights his proficiency in coding and his readiness to tackle challenging technical tasks.

At Gyan Mitra 24, organized by Mepco Schlenk College of Engineering, Sanjay presented innovative ideas and solutions, reflecting his deep understanding of AI and ML concepts. This event provided him with a platform to collaborate with peers and industry experts, further enriching his learning experience.

Moreover, Sanjay attended a specialized workshop on AI and ML at IIT Madras, one of the premier institutions in India. This workshop allowed him to probe deeper into advanced topics, stay updated with the latest developments in the field, and gain hands-on experience with cutting-edge technologies.

Through these experiences, Sanjay Deva V has demonstrated his commitment to

continuous learning and excellence in the domains of Artificial Intelligence and Machine Learning.




Jayasakthi K. R. (911123104020) is a CSE student who has shown a strong dedication to advancing her technical skills through various notable academic and extracurricular activities.

She actively participated in Yukta 2k24, a national-level technical symposium, where she engaged with peers and professionals in her field, enhancing her knowledge and understanding of contemporary technical challenges and innovations. This participation not only broadened her perspective but also allowed her to showcase her abilities on a significant platform.

Furthering her education, Jayasakthi successfully completed the NPTEL course "The Joy of Computing Using Python." This course provided her with a solid foundation in Python programming, equipping her with essential skills to solve computational problems effectively and efficiently.

Additionally, she has completed online courses from SRM Vadapalani, specifically focusing on "Data Science Tools for AI Applications." These courses have enabled her to gain practical insights and hands-on experience with tools and techniques crucial for developing AI applications, thus preparing her for future challenges in the field of data science.

Through these diverse and enriching experiences, Jayasakthi K. R. has demonstrated a commitment to continuous learning and professional development, making her a promising candidate in the field of computer science and engineering.



S. Dhivya Sri (911123243011) is a B.Tech student specializing in Artificial Intelligence and Data Science. She has actively engaged in academic activities that highlight her knowledge and skills in her field of study.

Dhivya Sri presented a research paper on Artificial Intelligence and Data Science, showcasing her understanding of complex concepts and her ability to articulate them effectively. This presentation highlighted her research capabilities and her proficiency in AI and data science, contributing valuable insights to the academic community.

Additionally, she participated in a poster presentation on the use cases of Machine Learning. This presentation allowed her to explore and explain practical applications of machine learning, demonstrating her

ability o connect theoretical knowledge with real-world scenarios. Her work in this area reflects a strong grasp of machine learning principles and their diverse applications across various industries.

Through these presentations, S. Dhivya Sri has demonstrated her dedication to advancing her expertise in Artificial Intelligence and Data Science, as well as her ability to communicate complex ideas clearly and effectively.

Kumararaja M. R. (911123243026) is a B.Tech student specializing in Artificial Intelligence and Data Science. He has actively participated in prominent events that have enhanced his technical knowledge and practical skills.

One notable event in which Kumararaja participated is National Tech Day at CUG, Anna University. This event provided him with a platform to engage with the latest technological advancements and innovations. His participation in National Tech Day demonstrates his commitment to staying updated with industry trends and his eagerness to learn from leading experts in the field.

G. Nithish Kumar (911123205035) is a dedicated B.Tech Information Technology student who has distinguished himself through his participation in various technical events. His recent accomplishments at the National Level Techno Symposium, held on February 16-17, 2024, at Mepco Schlenk Engineering College, are particularly noteworthy. This symposium brought together students and professionals from eight technical domains, fostering an environment of learning, competition, and innovation.

During the symposium, Nithish Kumar demonstrated his exceptional skills in two key events. The first event, "Black Hat," was an ethical hacking competition that challenged participants to apply their knowledge of cybersecurity to solve complex problems and secure systems. Nithish Kumar's expertise in ethical hacking allowed him to outperform his peers and secure the first prize in this highly competitive event.

In addition to his success in the ethical hacking competition, Nithish Kumar also excelled in the technical quiz. This quiz tested participants' comprehensive knowledge across various IT domains through two rigorous rounds. Nithish Kumar's thorough understanding of technical concepts and his ability to think

critically under pressure enabled him to clear both rounds successfully and achieve the first prize.

For his outstanding performance in these events, Nithish Kumar was awarded a cash prize of Rs. 2500. This recognition not only underscores his technical abilities but also his dedication to continuous learning and excellence. His achievements at the symposium highlight his potential as a future leader in the field of Information Technology.

Hoorul Firthous.A (911123104018) is a dedicated student pursuing a B.E. in Computer Science and Engineering. Notably, she has engaged in enriching educational opportunities such as NPTEL courses. NPTEL (National Programme on Technology Enhanced Learning) offers high-quality online courses in various disciplines, including computer science and engineering.

By participating in NPTEL courses, Hoorul Firthous.A demonstrates her commitment to expanding her knowledge and skills in her field of study. These courses likely cover a range of topics relevant to computer science and engineering, providing her with valuable insights, practical skills, and a deeper understanding of key concepts.

Ananthi J (911122105001), a student specializing in Electrical and Electronics Engineering, has actively contributed to various extracurricular activities within her academic institution. Notably, she has taken on the role of a compere (emcee) in several events, showcasing her strong communication and organizational skills.

One of her notable roles was as a compere for a tech-day event. In this capacity, Ananthi demonstrated her ability to engage and captivate audiences while facilitating the smooth flow of the event. Her adeptness in managing the program ensured that participants and attendees had a memorable and enriching experience.

Additionally, Ananthi served as a compere for NCON (National Conference), where she played a pivotal role in guiding participants through the conference proceedings and ensuring that the event adhered to its schedule. Her confident and articulate demeanor helped create a professional and welcoming atmosphere for all attendees.

Beyond technical events, Ananthi also lent her skills as a compere in cultural events. Whether it was a talent show, a cultural fest,

or a celebration, she brought enthusiasm and charisma to her role, energizing the audience and enhancing the overall ambiance of the event. Her proficiency in public speaking and event management undoubtedly adds value to the diverse range of activities within her institution.

Thivyan KS (911123148054), a student specializing in Computer Science and Engineering with a focus on Artificial Intelligence and Machine Learning (CSE - AIML), has actively engaged in various technical events and workshops to enhance his skills and knowledge in the field.

One significant milestone in Thivyan's academic journey was his participation in a workshop on Artificial Intelligence and Machine Learning held at IIT Madras. This workshop provided him with valuable insights into the latest advancements and applications of AI and ML technologies, fostering a deeper understanding of these complex domains.

Thivyan also demonstrated his coding prowess by participating in coding competitions at both Park College, Coimbatore, and Mepco College, Sivakasi. These competitions allowed him to put his programming skills to the test in competitive environments, where he showcased his ability to solve complex problems efficiently and creatively. His involvement in these coding competitions not only honed his technical abilities but also provided him with valuable experience in working under pressure and collaborating with peers.

Through his participation in workshops and coding competitions, Thivyan KS has showcased his dedication to continuous learning and his passion for mastering the intricacies of Artificial Intelligence, Machine Learning, and computer programming. These experiences have undoubtedly equipped him with the skills and knowledge necessary to excel in his chosen field.

Mridulaa K (911123106025), an Electronics and Communication Engineering (ECE) student, showcased her

expertise and innovation at TeleTech'24, part of Tech Utsav 2024, hosted on March 26, 2024, at Thiagarajarr College of Engineering, Madurai.

Her presentation investigated into the critical topic of integrating AI with sensors for agricultural applications. Mridulaa explored the potential of combining artificial intelligence with sensor technology to revolutionize agricultural practices. By leveraging AI capabilities, sensors can provide real-time data analysis, enabling precision farming techniques that optimize resource usage and enhance crop management practices.

Mridulaa's presentation highlighted the transformative impact of AI-driven sensors on agricultural efficiency, productivity, and sustainability. She elucidated how this integration can lead to smarter decision-making processes, improved yield prediction, and better utilization of resources such as water and fertilizers.

By addressing the intersection of AI and sensor technology in agriculture, Mridulaa demonstrated her forward-thinking approach and her commitment to leveraging technology for social and environmental impact. Her presentation undoubtedly contributed valuable insights to the discourse on innovative solutions for modern agricultural challenges.

P. Sri Harini (911123205051), a B.Tech IT student, participated in the "On-Spot Ideathon" event held on April 16, 2024, at PSG I-TECH, Coimbatore.

This event challenged participants to think on their feet by providing them with a random title problem, for which they had to devise solutions and assemble a PowerPoint presentation within an hour.

Sri Harini collaborated with her team members, including Dhanuja K.S.E from Cyber Security and Amanullah from Information Technology, to brainstorm and develop effective solutions to the given problem. Their collaborative effort and quick thinking allowed them to create a comprehensive presentation that addressed the problem from various angles.

During the presentation, the team showcased their solutions and fielded questions from the judges about their approach and methodology. Their ability to articulate their ideas effectively and respond confidently to inquiries impressed the judges.

Hemadakshata L. S (911123106015), an Electronics and Communication Engineering student, showcased her research and insights at TeleTech'24 during Techutsav 2024 on March 26, 2024, at Thiagarajarr College of Engineering, Madurai. Her paper explored into the integration of AI with agricultural sensors, emphasizing its potential to revolutionize farming practices.

In her presentation, Hemadakshata highlighted the transformative impact of AI on sensor technology in agriculture. By harnessing AI algorithms, sensors can analyze data in real-time, enabling precision farming techniques that optimize resource usage and crop management. Her discussion included advancements such as predictive analytics, smart irrigation systems, and automated monitoring of crop health.

Sandhiya R (911123149039), a B.E. student specializing in Computer Science and Engineering with a focus on Cyber Security, recently achieved a significant milestone by successfully completing an NPTEL exam. The course she undertook was "Cloud Computing and Distributed Systems."

Completing an NPTEL exam demonstrates Sandhiya's commitment to advancing her knowledge and skills in the field of cloud computing and distributed systems. These are essential topics, especially in the realm of cybersecurity, as they form the backbone of modern computing infrastructure and play a crucial role in securing data and systems.

By undertaking and passing this exam, Sandhiya has not only expanded her understanding of cloud computing and distributed systems but has also validated her expertise in these areas. This achievement reflects her dedication to continuous learning and professional development in the field of Cyber Security and positions her as a promising candidate in the industry.

Karthick GB (911123106018), a BE Electronics and Communication Engineering student, has showcased his skills and expertise through his active participation in various technical events.

During Teletech'24, a tech symposium organized by Thiagarajarr College of Engineering's, Madurai on March 26th,

2024, Karthick presented a paper on "Environmental Conditioned Auto-Locking Safety Mechanism." His innovative idea of integrating environmental sensors with an auto-locking mechanism for safety purposes impressed the judges, securing him the 2nd place. His paper demonstrated a practical application of technology to enhance safety measures by automatically detecting hazardous environmental conditions and taking preemptive action to ensure safety.

At Gyan Mitra24, conducted by MEPCO Schlenk Engineering College on February 16th and 17th, 2024, Karthick participated in various events and emerged victorious. In the "Black Hat" event, a non-technical ethical hacking game, he demonstrated his prowess in cybersecurity by cracking passwords based on clues provided through Instagram posts, earning him the 1st place. Additionally, he excelled in the "IPL Auction," a non-technical event where participants auction off players and answer technical questions, securing another 1st place.

Karthick's achievements in these events highlight his technical acumen, creativity, and problem-solving skills. His ability to excel in both technical and non-technical challenges highlight his versatility and readiness to tackle diverse tasks. Such accomplishments position him as a promising talent in the field of Electronics and Communication Engineering.

M. Ponvannan (911123148037), specializing in Computer Science Engineering with a focus on Artificial Intelligence and Machine Learning (AI & ML), has actively participated in prestigious hackathons showcasing his technical prowess and innovative thinking.

At iTech Hackfest 2024, a national-level hackathon hosted at Thiagarajarr College of Engineering, Ponvannan demonstrated his coding skills and problem-solving abilities. His participation in this competitive event provided him with a platform to collaborate with peers, brainstorm solutions, and develop innovative projects within a limited timeframe. This experience allowed him to apply his knowledge of AI & ML to real-world challenges, further honing his skills in this rapidly evolving field.

Additionally, Ponvannan showcased his passion for leveraging AI and technology for social good by participating in the MAD AI SDG Ideathon 2k24 at Sethu Institute of Technology. This ideathon focused on generating ideas and solutions using Artificial Intelligence to address Sustainable Development Goals (SDGs). Ponvannan's involvement in this event highlights his commitment to using his technical expertise to drive positive change and contribute to global sustainability efforts.

Through his active participation in hackathons and ideathons, M. Ponvannan has not only demonstrated his technical proficiency but also his creativity, teamwork, and dedication to leveraging AI & ML for impactful solutions. These experiences have undoubtedly enriched his learning journey and positioned him as a promising talent in the field of Computer Science Engineering.

Shri Dharshan K (911123148050), specializing in Computer Science Engineering with a focus on Artificial Intelligence and Machine Learning (CSE - AIML), has recently completed a Certificate Course on Python for Data Science offered by NPTEL.

This accomplishment underscores Shri Dharshan's commitment to enhancing his skills and knowledge in the field of data science, a crucial component of AI and machine learning. Python is widely used in data science for its versatility, ease of use, and robust libraries for data analysis and visualization. By completing this course, Shri Dharshan has gained proficiency in Python programming specifically tailored for applications in data science.

Through the NPTEL course, Shri Dharshan has likely learned essential concepts and techniques used in data science, including data manipulation, statistical analysis, machine learning algorithms, and data visualization. This knowledge will not only strengthen his foundation in data science but also equip him with valuable tools and techniques to tackle real-world data-driven challenges effectively.

By investing time and effort into completing this certificate course, Shri Dharshan has demonstrated his dedication to continuous learning and professional development in the field of AI and machine learning. This achievement will undoubtedly contribute to his growth and success in his academic and professional endeavors.

Mounesh M (911123148035), specializing in Computer Science Engineering with a focus on Artificial Intelligence and Machine Learning (CSE - AIML), has demonstrated exceptional leadership and academic excellence within his academic institution.

1. Mounesh achieved the remarkable feat of securing the overall 1st rank topper position in his college during the Nov/Dec-2023 examinations. This achievement speaks volumes about his dedication, hard work, and academic prowess, setting him apart as a top performer in his field of study.

2. He served as the Organizing Secretary for NCRTCS 24 (National Conference on Recent Trends in Computer Science) during NCON'24. In this role, Mounesh demonstrated his organizational skills and leadership abilities by contributing to the successful planning and execution of the conference. His involvement as a student volunteer underscores his commitment to academic excellence and professional development within the field of computer science.
3. Additionally, Mounesh held the prestigious position of President of the Cyberia Association within the Computer Science Engineering department. As the president, he played a pivotal role in fostering a vibrant academic and extracurricular environment within the department. Through his leadership, Mounesh promoted collaboration, innovation, and knowledge-sharing among students, contributing to the overall growth and success of the association.

Overall, Mounesh M's achievements as the college's top rank holder, the Organizing Secretary for NCRTCS 24, and the President of the Cyberia Association highlight his outstanding academic performance, leadership skills, and dedication to advancing the field of Computer Science Engineering with a specialization in Artificial Intelligence and Machine Learning.

Hareezzvijey RJ (911123148018), specializing in Computer Science Engineering with a focus on Artificial Intelligence and Machine Learning (CSE - AIML), has actively engaged in various academic and technical activities, showcasing his skills and passion for the field.

1. Hareezzvijey presented a poster at NIT Tiruchirappalli, demonstrating his research or project work in a visual format. Poster presentations are an excellent way to communicate findings and insights to a broader audience and receive feedback from peers and experts in the field. Hareezzvijey's participation in this event reflects his commitment to academic excellence and his willingness to share his knowledge and contributions with the academic community.
2. He also attended a workshop on Data Structures and Algorithms (DSA) at NIT Tiruchirappalli. DSA is fundamental knowledge for computer science students, forming the backbone of algorithm design and efficient problem-solving techniques. By participating in this workshop, Hareezzvijey enhanced his understanding of DSA concepts, which are essential for success in competitive programming and software development roles.
3. Additionally, Hareezzvijey competed in a Code War event at Park College, Coimbatore. Code wars typically involve solving challenging programming problems within a specified time frame, testing participants' coding skills, problem-solving abilities, and teamwork. Hareezzvijey's involvement in this

competition demonstrates his passion for coding and his willingness to push his limits in tackling complex technical challenges.

Overall, Hareezzvijey RJ's participation in poster presentations, workshops, and coding competitions reflects his proactive approach to learning and his dedication to mastering the skills required for success in Computer Science Engineering, particularly in the field of Artificial Intelligence and Machine Learning.

Sherin Infantia. G (911123243050), focusing on Artificial Intelligence and Data Science, demonstrated her technical skills and problem-solving abilities by participating in the Code Ninja and debugging events at Euphoria.

The Code Ninja event likely involved competitive coding challenges where participants were tasked with solving algorithmic problems within a limited time frame. Sherin's participation in this event showcased her proficiency in coding and her ability to think critically under pressure.

In the debugging event, participants were likely presented with buggy code or software and were required to identify and fix the errors efficiently. Sherin's involvement in this event highlights her keen eye for detail and her capability to troubleshoot technical issues effectively.

Participating in such technical events at Euphoria not only allowed Sherin to test her skills and knowledge but also provided her with valuable experience and exposure to real-world coding scenarios. Her engagement in these events reflects her dedication to honing her craft in Artificial Intelligence and Data Science and her enthusiasm for tackling technical challenges.

V. Thanuja (911123149052), a B.E student specializing in Computer Science Engineering with a focus on Cyber Security, has actively pursued opportunities to enhance her skills and knowledge in various domains.

1. Thanuja completed a Java programming internship at Website Makers_THE WEBSITE MARKERS, where she gained practical experience in Java programming, a foundational skill for software development. This internship provided her with hands-on exposure to industry-standard practices and methodologies, preparing her for future roles in software engineering.
2. She participated in an Artificial Intelligence (AI) and Data Science (DS) program at SRM Vadapalani,

where she completed a project and received a certificate. This experience allowed Thanuja to deepen her understanding of AI and DS concepts and apply them to real-world projects. Such practical exposure is invaluable in gaining proficiency in these rapidly evolving fields.

3. Thanuja excelled in the Flame Free Cuisine event at Kalasalingam University, a non-technical event where she secured the 1st prize. This achievement highlights her versatility and ability to succeed not only in technical domains but also in extracurricular activities. Winning the 1st prize demonstrates her creativity, teamwork, and dedication to excellence outside of her academic pursuits.

Overall, V. Thanuja's experiences in the Java programming internship, AI and DS program, and her success in the Flame Free Cuisine event showcase her commitment to continuous learning, professional development, and well-roundedness in both technical and non-technical domains.

A. Ram Meyyappan (911123148043), specializing in Computer Science Engineering with a focus on Artificial Intelligence and Machine Learning (CSE AIML), has displayed an interest in developing digital skills and expertise in artificial intelligence.

By engaging in digital skills and artificial intelligence, Ram Meyyappan has likely pursued courses or workshops aimed at enhancing his proficiency in digital technologies and AI. These endeavors could involve learning programming languages, understanding data analysis techniques, and exploring machine learning algorithms.

Ram Meyyappan's dedication to acquiring digital skills and understanding artificial intelligence demonstrates his proactive approach to staying updated with emerging technologies. These skills are invaluable in today's digital age, where AI plays a significant role in various industries, from finance and healthcare to marketing and entertainment.

By investing time and effort into developing his expertise in digital skills and AI, Ram Meyyappan is positioning himself for success in the ever-evolving field of computer science and engineering. His commitment to continuous learning and skill development will undoubtedly contribute to his growth and success in his academic and professional endeavors.

Akalya G (911123243006), specializing in Information Technology with a focus on Artificial Intelligence and Data Science (IT - AIDS), has showcased her technical prowess by participating in coding ninja and debugging events.

1. In the coding ninja event, Akalya likely demonstrated her coding skills and problem-solving abilities by tackling algorithmic challenges within a competitive environment. This event would have tested her proficiency in programming languages and her ability to devise efficient solutions to complex problems.
2. In the debugging event, participants are typically presented with faulty code or software and are tasked with identifying and rectifying errors. Akalya's involvement in this event highlights her keen eye for detail and her capacity to troubleshoot technical issues effectively.

Participating in these technical events not only allows Akalya to put her skills to the test but also provides her with valuable experience and exposure to real-world coding scenarios. Her engagement in coding ninja and debugging events underscores her dedication to mastering her craft in Information Technology and her enthusiasm for tackling technical challenges.

Arul Subramaniyan. G (911122205301), pursuing a B.Tech in Information Technology, is likely engaged in various academic and technical activities aimed at enhancing his skills and knowledge in the field.

As an Information Technology student, Arul may be involved in:

1. **Academic Projects:** Working on projects related to software development, database management, web development, or other IT domains as part of his curriculum.
2. **Internships:** Undertaking internships in IT companies to gain practical experience and exposure to real-world projects and technologies.
3. **Technical Workshops and Seminars:** Participating in workshops, seminars, or conferences related to Information Technology to stay updated with the latest trends, tools, and technologies in the field.
4. **Coding Competitions:** Participating in coding competitions or hackathons to enhance his programming skills and problem-solving abilities.
5. **Extracurricular Activities:** Engaging in extracurricular activities such as tech clubs, student organizations, or community service initiatives related to Information Technology.

Overall, Arul Subramaniyan. G's journey in pursuing a B.Tech in Information Technology likely involves a combination of academic coursework, practical projects, and extracurricular activities aimed at preparing him for a successful career in the IT industry.


A.V.C. COLLEGE OF ENGINEERING

DEPARTMENT OF INFORMATION TECHNOLOGY

CERTIFICATE

This is to certify that Mr./Ms./Mr. S. PAUL SUBRAMANIAN of SRM MADURAI FOR ENGINEERING AND TECHNOLOGY has presented a paper titled Obstacle detection for blind people using image sensing in the 2nd NATIONAL CONFERENCE ON INNOVATIVE TECHNOLOGIES IN ENGINEERING AND RESEARCH (NCITER-2024) with ISBN No - 978-93-91333-63-1 organized by Department of Information Technology, A.V.C. College of Engineering on 22nd March 2024.

Convenor | Head | Principal | Director

C.S.S. Raksha (911123149035), pursuing a B.E. in Computer Science Engineering with a specialization in Cyber Security, has actively engaged in various academic and extracurricular activities aimed at enhancing her skills and knowledge in the field of information technology.

1. **Poster Presentation Event:** Raksha participated in a poster presentation event held at Thiagarajarr College of Engineering, Madurai, where she secured the 3rd prize. This accomplishment showcases her ability to effectively communicate complex concepts visually and her proficiency in cyber security topics.
2. **Python Course:** Raksha completed a Python course through SRMIST, Vadapalani campus. Python is widely used in cyber security for tasks such as scripting, automation, and data analysis. By completing this course, Raksha has likely gained valuable programming skills that are essential in the field of cyber security.
3. **C and C++ Courses:** Raksha also completed courses in C and C++ through SSI Education, Madurai. These foundational programming languages are fundamental to understanding computer systems and form the basis for many cyber security concepts and techniques.
4. **Webinar on Intelligent Agent:** Raksha attended a webinar on "Intelligent Agent: A Paradigm Shift to Information Technology." This indicates her proactive approach to staying updated with the latest advancements in the field and her interest in emerging technologies relevant to cyber security.
5. **Multimedia Presentation:** Raksha participated in a multimedia presentation held at SRM MCET. This experience likely provided her with an opportunity to enhance her communication skills and present cyber security topics using multimedia tools effectively.

Overall, C.S.S. Raksha's involvement in poster presentations, completion of programming courses, attendance at webinars, and participation in multimedia presentations demonstrate her commitment to continuous learning and professional development in the field of cyber security. These experiences have undoubtedly enriched her understanding and prepared her for future endeavors in the field.


SSi EDUCATION

Certificate of Merit


SRM MADURAI

Certificate of Participation


Course Completion Certificate

Naveen KS (911123243034), pursuing a B.Tech in Artificial Intelligence and Data Science (AI&DS), has actively participated in workshops aimed at enhancing his skills and knowledge in the field of computer science and data science.

1. **NIT Workshop for Data Structure and Algorithm:** Naveen attended a workshop on data structure and algorithm conducted at NIT. This workshop likely provided him with insights into fundamental data structures, algorithms, and problem-solving techniques. Mastery of these concepts is crucial for success in the field of computer science and forms the backbone of AI and data science applications.
2. **Thiagarajarr College of Engineering Workshop:** Naveen attended a workshop that focused on a variety of topics related to computer science, AI, or data science. Such workshops often cover emerging trends, tools, and technologies in the field, providing participants like Naveen with valuable exposure to new concepts and practical skills.

By actively participating in these workshops, Naveen has demonstrated his commitment to continuous learning and professional development in the field of AI and data science. These experiences likely enriched his understanding of core concepts and equipped him with practical skills that are essential for success in his academic and professional endeavors.

Vishva M (911123243057), focusing on Artificial Intelligence and Data Science (AIDS), participated in INNOHACKS at TCE (Thiagarajarr College of Engineering).

INNOHACKS is likely a hackathon event that encourages participants to collaborate and innovate on projects within a limited timeframe. Given Vishva's specialization in Artificial Intelligence and Data Science, it's probable that his

involvement in this event involved developing solutions or projects related to AI, data science, or other technology-driven domains.

Participating in hackathons like INNOHACKS offers valuable opportunities for students like Vishva to apply their skills, collaborate with peers, and gain hands-on experience in problem-solving and innovation. These events often foster creativity, teamwork, and rapid prototyping, which are essential skills for success in the rapidly evolving fields of AI and data science. Through his participation in INNOHACKS, Vishva likely had the chance to showcase his talents, expand his network, and contribute to innovative solutions within the tech community.

Karishma Sri K (911123243024), pursuing a B.Tech in Artificial Intelligence and Data Science (AIDS), has participated in the following events:

1. **SQL Knight Competition at Kalasalingam University:** Karishma participated in the SQL Knight competition, likely a coding competition focusing on SQL (Structured Query Language). SQL is a fundamental language for managing and manipulating relational databases. Participating in such competitions allows students to demonstrate their SQL skills and problem-solving abilities in database management scenarios.
2. **Workshop at Thiagarajarr College of Engineering:** Karishma attended a workshop organized by Thiagarajarr College of Engineering. Madurai covers various topics related to computer science, data science, or emerging technologies.

Participating in events like these enables students like Karishma to broaden their knowledge, enhance their skills, and network with professionals and peers in their field of study. These experiences contribute to their overall growth and development as aspiring professionals in the field of Artificial Intelligence and Data Science.

Brindha.B (911123104006), pursuing a Bachelor of Engineering in Computer Science and Engineering (BE.CSE), has engaged in the following activities to enrich her skills and knowledge:

1. **AI and Data Science at SRM Vadapalani:**

Brindha attended a course or workshop on Artificial Intelligence and Data Science at SRM Vadapalani. This indicates her interest in exploring advanced topics in AI and data science, which are crucial fields in the modern tech landscape. Such courses likely cover fundamental concepts, algorithms, and applications of AI and data science, providing students with a strong foundation in these domains.

2. **NPTEL Python Course:** Brindha completed a course on Python through NPTEL (National Programme on Technology Enhanced Learning). Python is a widely-used programming language, particularly in the fields of data science, machine learning, and artificial intelligence. By completing this course, Brindha has likely gained proficiency in Python programming, which is essential for various applications in computer science and engineering.

Participating in courses and workshops related to AI, data science, and Python demonstrates Brindha's proactive approach to learning and her commitment to staying updated with the latest technologies and trends in the field of computer science. These experiences will undoubtedly strengthen her skillset and prepare her for future opportunities in the tech industry.


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Course Completion Certificate
This is to certify that
BRINDHA.B
studying B.E (CSE) at SRM MADURAI COLLEGE FOR ENGINEERING AND TECHNOLOGY
has successfully completed the course on DATA SCIENCE TOOLS FOR AI APPLICATIONS
offered by SRMIST, Kattankulathur Campus, Chennai
Course Duration: 26-02-2024 - 03-03-2024

Chandra Kishore S (911122205302), a second-year B.Tech student specializing in Information Technology, showcased his research prowess and innovative thinking by presenting a paper titled "Efficient Hypothyroid Disease Prediction using Gated Recurrent Units" at the 2nd National Conference on Innovative Technologies in Engineering and Research (NCITER-2024). The conference, organized by the Department of Information Technology at A.V. C College of Engineering, provided a platform for students and researchers to share their findings and insights.

Chandra Kishore's paper focused on leveraging Gated Recurrent Units (GRUs) for the efficient prediction of hypothyroid disease, a common thyroid disorder. GRUs are a type of recurrent neural network (RNN) architecture known for their ability to model sequential data effectively. By applying GRUs to medical data related to hypothyroid disease, Chandra Kishore aimed to improve the accuracy and efficiency of disease prediction, potentially facilitating early diagnosis and treatment.

His paper presentation not only demonstrated his understanding of advanced machine learning techniques but also showcased his ability to apply them to real-world problems in the healthcare domain. The recognition of winning the first prize at NCITER-2024 underscores the significance and impact of Chandra Kishore's research in the field of medical informatics.


A.V.C. COLLEGE OF ENGINEERING
DEPARTMENT OF INFORMATION TECHNOLOGY
CERTIFICATE


Best Paper Award

This achievement reflects Chandra Kishore's dedication to academic excellence, his commitment to leveraging technology for social good, and his potential as a budding researcher in the field of Information Technology. Such accolades serve as a testament to his talent, innovation, and contributions to the academic community.

S.K.B. Shanmathi (911123243049), specializing in Artificial Intelligence and Data Science (AIDS), has participated in coding ninja and debugging activities.

1. **Coding Ninja:** Shanmathi likely participated in a coding competition or event known as "Coding Ninja." These events typically involve solving coding challenges or algorithmic problems within a specified time frame. Participation in such events demonstrates Shanmathi's proficiency in programming and problem-solving skills, which are essential in the field of artificial intelligence and data science.
2. **Debugging:** Shanmathi has also engaged in debugging activities. Debugging involves identifying and fixing errors or bugs in software code. Mastering debugging techniques is crucial for software development, as it ensures the smooth functioning of programs and applications. Shanmathi's involvement in debugging indicates her attention to detail and her ability to troubleshoot technical issues effectively.

Participating in coding competitions and debugging activities allows Shanmathi to sharpen her technical skills, enhance her problem-solving abilities, and gain practical experience in software development. These experiences will undoubtedly contribute to her success in the field of artificial intelligence and data science, where proficiency in programming and debugging is highly valued.

Dhanuja. K. S. E. 911123149007 B. E. CSE(Cyber security) 1.I participated in a poster presentation on the topic "End-to-End Speech Emotion Recognition Using Deep Learning Techniques" at Vortex'24, a national-level technical symposium. The event was held on March 9 at the National Institute of Technology (NIT), Trichy. My poster presentation showcased the research methodologies and findings related to the application of deep learning in speech emotion recognition.

Participating in this event provided me with valuable experience in several ways. It enhanced my ability to communicate complex technical information clearly and concisely to a diverse audience. I also received constructive feedback from experts in the field, which has given me insights into how I can further improve my research. Additionally, the event offered an excellent platform for networking with other researchers and professionals, which could lead to future collaborations.

I was thrilled to achieve third place in the event, for which I was awarded a cashback prize of INR 1000. This recognition has

motivated me to continue pursuing excellence in my research endeavors.

2.On March 16, 2024, I participated in an on-spot hackathon focused on building a secure and user-friendly platform for secure and transparent online voting systems. This event was held as part of Yuktha'24, a prominent technical event at PSG College of Technology, Coimbatore. Competing against several talented teams, my team and I developed an innovative solution that impressed the judges, securing us the 2nd place position. For our efforts, we were awarded a cashback prize of ₹800. This hackathon provided an excellent platform to apply our technical skills, collaborate under pressure, and contribute to an important and timely topic in the realm of online security and transparency.

3.On October 14, 2023, as part of Tech Day'23, a prominent technical event held at SRM MCET, I participated in a logo design competition. The event aimed to showcase creativity and design skills among participants. Representing our association and club of Computer Science and Engineering (CSE), I designed a unique and meaningful logo that captured the essence of our organization. After careful deliberation by the judges, our logo secured the 2nd place position. This achievement not only recognized our efforts in graphic design but also highlighted the importance of visual identity in representing our association and club within the technical community.

4.On February 24, 2024, I participated in two technical and two non-technical events as part of Fuzon'24, an inter-college symposium held at SIT, Madurai. In the technical domain, I engaged in "Quick Query," a rapid problem-solving challenge, and "Paper Presentation," where I shared insights on a relevant topic. On the non-technical front, I took part in "Imaginary World," an exercise in creativity, and "Action Play," a theatrical performance.

Our team's effort in the "Action Play" event paid off as we secured the 1st place position, showcasing our dedication, coordination, and performance skills. This experience not only provided a platform to demonstrate both technical and creative abilities but also fostered collaboration and innovation among participants.

Yuvan Shankar C (911123104057), pursuing a BE in Computer Science and Engineering (CSE), has actively participated in various academic and extracurricular activities to enhance his skills and knowledge in the field:

1. **Gyanmithra (Symposium) - Mepco Schlenk Engineering College:** Yuvan attended Gyanmithra, a technical symposium held at Mepco Schlenk Engineering College. Such events typically feature workshops, paper presentations, and competitions aimed at fostering learning and innovation in engineering and technology.
2. **Vortex (Workshop) - NIT Trichy:** Yuvan participated in a workshop called Vortex, likely organized by the National Institute of Technology (NIT), Trichy. Workshops like Vortex often focus on specific technical topics, providing participants with hands-on experience and practical knowledge in areas relevant to their field of study.
3. **Virtual Internship Program in Python Programming by Internpedia:** Yuvan completed a one-month virtual internship program focused on Python programming through Internpedia. This program likely provided him with opportunities to apply Python programming concepts to real-world projects and gain practical experience in software development.
4. **NPTEL Certifications on The Joy of Computing using Python:** Yuvan obtained certifications from NPTEL (National Programme on Technology Enhanced Learning) on the topic of "The Joy of Computing using Python." NPTEL courses offer high-quality online learning resources developed by experts from premier educational institutions, allowing students like Yuvan to enhance their knowledge and skills in various technical domains.
5. **Virtual Internship Program in Python Programming by CODSOFT:** Yuvan also completed another one-month virtual internship program in Python programming, this time offered by CODSOFT. Participating in internship programs provides students with valuable practical experience, exposure to industry-relevant technologies, and opportunities to build professional networks.

Yuvan Shankar's active participation in symposiums, workshops, and internship programs, along with his pursuit of certifications, reflects his commitment to continuous learning and professional development in the field of Computer Science and Engineering. These experiences will undoubtedly contribute to his growth and success in his academic and professional endeavors.

Dharani Dharan.G (911123104008), specializing in Computer Science Engineering (CSE), has actively pursued

opportunities to enhance his skills and knowledge in the field through the following activities:

1. **NPTEL Certified Course - The Joy of Computing Python:** Dharani completed a certified course on "The Joy of Computing using Python" through NPTEL (National Programme on Technology Enhanced Learning). This course likely provided him with a comprehensive understanding of Python programming concepts and their applications.
2. **Attended Workshop on Data Structures and Algorithms at NIT:** Dharani participated in a workshop focused on data structures and algorithms held at the National Institute of Technology (NIT). Workshops like these typically cover fundamental concepts and techniques in data structures and algorithms, which are essential for solving complex computational problems efficiently. Dharani's attendance at this workshop indicates his commitment to deepening his understanding of these core concepts in computer science.

By engaging in NPTEL courses and attending workshops, Dharani has demonstrated his dedication to continuous learning and professional development in the field of Computer Science Engineering. These experiences have likely equipped him with valuable skills and knowledge that will contribute to his success in academic pursuits and future career endeavors.

Aishwariya .J (911123149001), specializing in Computer Science Engineering with a focus on Cyber Security, has participated in the following events:

1. **Prompt Palooza at PSG Institute of Technology and Applied Research:** Aishwariya took part in the Prompt Palooza event held at PSG Institute of Technology and Applied Research. The theme of the event focused on exploring the differences between human and artificial intelligence (AI) and leveraging AI through efficient prompts. Participating in such events provides opportunities for students to engage in discussions, presentations, and activities related to emerging technologies like AI and cybersecurity.
2. **Coptothon 24 at Kalasalingam Academy of Research and Education:** Aishwariya also participated in Coptothon 24 organized by Kalasalingam Academy of Research and Education. Coptothon events often involve coding competitions, hackathons, or challenges related to computer science and technology. Participation in Coptothon provides students with opportunities to showcase their coding skills, problem-solving abilities, and creativity in developing innovative solutions.

By participating in Prompt Palooza and Coptothon 24, Aishwariya has demonstrated her interest and engagement in exploring cutting-edge technologies,

particularly in the areas of artificial intelligence and cybersecurity. These experiences not only enhance her knowledge and skills but also provide valuable networking opportunities and exposure to real-world challenges in the field of computer science.

S. Hayagirivan (911123243019), specializing in Information Technology, has participated in the following workshops:

1. **Data Structure and Algorithm Workshop at NIT Trichy:** Hayagirivan attended a workshop on data structures and algorithms held at the National Institute of Technology (NIT) Trichy. Workshops like these typically cover fundamental concepts and techniques in data structures and algorithms, which are essential for software development, problem-solving, and efficient data management in information technology. Participation in this workshop likely provided Hayagirivan with valuable insights and practical skills to tackle complex computational problems effectively.
2. **Unmanned Aerial Vehicle in Industry 4.0 and Defence Workshop:** Hayagirivan participated in a workshop on unmanned aerial vehicles (UAVs) in Industry 4.0 and defense, organized by Thiagarajarr College of Engineering, Madurai. This workshop likely explored the applications, technologies, and advancements in UAVs, particularly in the context of Industry 4.0 and defense sectors. Such workshops provide participants with insights into cutting-edge technologies and their practical applications in various industries, preparing them for future challenges and opportunities in the field of information technology.

By attending these workshops, Hayagirivan has demonstrated his proactive approach to learning and his commitment to staying updated with the latest developments in information technology. These experiences have likely broadened his knowledge base, enhanced his technical skills, and provided him with valuable exposure to emerging trends and technologies in the field.

Srinithi M (911123243051), pursuing a B.Tech in Artificial Intelligence and Data Science (AIDS), participated in INNOHACK TCE.

INNOHACK TCE is likely a hackathon event held at Thiagarajarr College of Engineering (TCE). Hackathons provide participants with an opportunity to collaborate, innovate, and develop solutions to real-world problems within a limited timeframe. Given Srinithi's specialization in Artificial Intelligence and Data Science, her participation in INNOHACK TCE likely involved leveraging AI and data science techniques to address challenges or create innovative projects.

Participating in hackathons like INNOHACK TCE allows students like Srinithi to apply their knowledge and skills in a practical setting, collaborate with peers, and gain hands-on experience in problem-solving and innovation. These experiences are valuable for developing critical thinking, teamwork, and technical expertise, all of which are essential in the field of Artificial Intelligence and Data Science.

Agarshal Isai George J T (911123243005), focusing on Artificial Intelligence and Data Science (AIDS), participated in a national tech symposium at PSG College of Technology, Coimbatore.

Tech symposiums like the one held at PSG Coimbatore typically feature a range of activities such as paper presentations, workshops, seminars, and competitions related to various technical domains. Given Agarshal's specialization in Artificial Intelligence and Data Science, their participation in this symposium likely involved presenting research findings, discussing advancements in AI and data science, and networking with peers and experts in the field.

Participating in national-level symposiums provides students like Agarshal with opportunities to showcase their expertise, learn from others, and stay updated with the latest developments in their field of study. It also allows them to engage in meaningful discussions, gain exposure to diverse perspectives, and establish

connections with professionals and researchers in the industry.

Overall, Agarshal's participation in the national tech symposium at PSG Coimbatore demonstrates their enthusiasm for learning, their commitment to academic and professional development, and their active engagement in the vibrant tech community.


PSG Institute of Technology and Applied Research

Neelambur, Coimbatore - 641062

CERTIFICATE

OF PARTICIPATION

YUKTA: 2024

National level Technical Symposium

This is to certify that Mr./Ms. [redacted] of [redacted] has participated in the Technical event [redacted] hold during YUKTA:24 organized by PSG Institute of Technology and Applied Research on 15 & 16 March 2024.

Dr P Velmurugan
Dean Students' Union

Dr N Saravanakumar
Principal

Rithanya V (911123205043), specializing in Information Technology (IT), engaged in logo creation and animation activities.

Creating logos involves designing unique visual identities that represent brands, businesses, or organizations. It requires creativity, graphic design skills, and an understanding of branding principles. Logo creation may involve conceptualizing ideas, sketching designs, and using graphic design software to bring the vision to life.

Animation, on the other hand, involves bringing static images or graphics to life through movement. This can include 2D or 3D animation, motion graphics, and visual effects. Animation projects may range from short films and advertisements to educational videos and multimedia presentations.

By participating in logo creation and animation activities, Rithanya likely had the opportunity to showcase her creativity, design skills, and technical proficiency in graphic design and animation software. These experiences not only allow students to express themselves artistically but also develop practical skills that are valuable in various industries, including advertising, entertainment, and digital media.


KALASALINGAM

EUPHORIA

CERTIFICATE

Aarthi G.D (911123243001), pursuing a B.Tech in Artificial Intelligence and Data Science (AIDS), participated in a debugging event at Kalasalingam University.

Debugging events typically involve identifying and resolving errors or bugs in software programs. Participation in such events allows students to hone their problem-solving skills, gain practical experience in software development, and learn how to troubleshoot technical issues effectively.

By participating in the debugging event at Kalasalingam University, Aarthi likely had the opportunity to work on real-world coding problems, collaborate with peers, and demonstrate her proficiency in debugging techniques. These experiences are valuable for students studying artificial intelligence and data science, as they require a strong foundation in programming and the ability to debug complex algorithms and software systems.

Overall, Aarthi's participation in the debugging event reflects her dedication to mastering her craft in the field of artificial intelligence and data science, and her willingness to engage in hands-on learning experiences to further her knowledge and skills.

Shreya Mercy S (911123104049), studying Computer Science Engineering (CSE), participated in an NPTEL course.

NPTEL (National Programme on Technology Enhanced Learning) offers online courses in various domains of engineering, technology, and science. These courses are designed and conducted by professors from premier educational institutions in India, providing high-quality learning resources to students and professionals.

Shreya's participation in an NPTEL course indicates her commitment to continuous learning and professional development in the field of computer science and engineering. NPTEL courses cover a wide range of topics, including programming languages, data structures, algorithms, artificial intelligence, machine learning, and more. By enrolling in an NPTEL course, Shreya likely had the opportunity to deepen her understanding of specific concepts or acquire new skills relevant to her academic and career interests.

Participating in NPTEL courses allows students like Shreya to access expert-led instruction, engage with course materials at their own pace, and earn certifications upon successful completion of course assessments. These certifications can enhance their resumes and demonstrate their proficiency to potential employers or academic institutions.

Siddharthan T (911123243054), pursuing a B.Tech in Artificial Intelligence and Data Science (AIDS), participated in NPTEL courses.

NPTEL (National Programme on Technology Enhanced Learning) offers online courses covering a wide range of topics in engineering, technology, and science. These courses are designed and conducted by professors from premier educational institutions in India, providing learners with access to high-quality educational resources.

Siddharthan's participation in NPTEL courses indicates his commitment to continuous learning and professional development in the field of artificial intelligence and data science. NPTEL courses on AI and data science cover various topics, including machine learning, deep learning, data analysis, and more. By enrolling in NPTEL courses, Siddharthan likely had the opportunity to deepen his understanding of these subjects, acquire new skills, and stay updated with the latest advancements in the field.

Participating in NPTEL courses allows students like Siddharthan to access expert-led instruction, engage with course materials at their own pace, and earn certifications upon successful completion of course assessments. These certifications can enhance their resumes and demonstrate their proficiency to potential employers or academic institutions. Overall, NPTEL courses serve as valuable resources for individuals seeking to advance their careers in artificial intelligence and data science.

Yuvaraja Kumaran M (911123104058), studying Computer Science Engineering (CSE), completed a course and received a certificate through NPTEL.

NPTEL (National Programme on Technology Enhanced Learning) offers online courses covering a wide range of topics in engineering, technology, and science. These courses are designed and conducted by professors from premier educational institutions in India, providing learners with access to high-quality educational resources.

Yuvaraja's completion of a course and receipt of a certificate via NPTEL indicates his commitment to continuous learning and professional development in the field of computer science engineering. NPTEL courses cover various subjects relevant to CSE, including programming languages, data structures, algorithms, artificial intelligence, machine learning, and more. By completing an NPTEL course, Yuvaraja likely had the opportunity to deepen his understanding of a specific topic, acquire new skills, and stay updated with the latest advancements in the field.

Earning a certificate through NPTEL demonstrates Yuvaraja's proficiency in the subject matter and can enhance his credentials when seeking employment opportunities or further academic pursuits. Overall, NPTEL courses serve as valuable resources for individuals like Yuvaraja who are eager to expand their knowledge and skills in computer science engineering.


Elite

NPTEL Online Certification

(Funded by the MoE, Govt. of India)

This certificate is awarded to

YUVARAJA KUMARAN M

for successfully completing the course

The Joy of Computing using Python

with a consolidated score of 81 %

Online Assignments	21.56/25	Proctored Exam	59.31/75

Total number of candidates certified in this course: 12432

Prof. Devendra Jalihal — Jan-Apr 2024 (12 week course) — Prof. Andrew Thangaraj

Indian Institute of Technology Madras

swayam

Roll No: NPTEL24CS57S8311012127 To verify the certificate No. of credits recommended: 3 or 4

Poornimadevi.R.S (911123243036), pursuing a specialization in Artificial Intelligence and Data Science (AIDS), participated in a workshop or event organized by Thiagarajarr College.

Thiagarajarr College is known for organizing workshops, seminars, and events related to various technical domains, including artificial intelligence and data science. These events often provide students with opportunities to learn from experts, engage in hands-on activities, and network with peers and professionals in the field.

Poornimadevi's participation in the workshop or event indicates her interest in furthering her knowledge and skills in artificial intelligence and data science. By attending such events, she may have gained insights into the latest developments, trends, and applications in the field. Additionally, participating in workshops often involves practical sessions where students can apply theoretical concepts to real-world scenarios, enhancing their understanding and proficiency in the subject matter.

Overall, Poornimadevi's active involvement in the workshop or event organized by Thiagarajarr College of Engineering reflects her dedication to personal and professional growth in the field of artificial intelligence and data science. These experiences contribute to her academic journey and readiness for future opportunities in the industry.


THIAGARAJAR COLLEGE OF ENGINEERING

INNOHACKS

TECHUTSAV 2024

CERTIFICATE OF PARTICIPATION

This is to certify that

Mr/Ms. POORNIMADEVI. R.S

of

ARM, MADURAI

has participated in Workshop & Events

as a part of TECHUTSAV-INNOHACKS'24 organized by

Thiagarajar College of Engineering, Madurai on 15th March 2024.

HOD PRINCIPAL

Jagadha R (911123243021), specializing in Artificial Intelligence and Data Science (AIDS), participated in a workshop and event organized by Thiagarajarr College of Engineering that covering various technical topics, including artificial intelligence and data science. These events aim to provide students with opportunities to enhance their knowledge, skills, and practical experience in emerging technologies.

Participating in workshops and events allows students like Jagadha to supplement their academic curriculum with practical experiences and industry insights. These experiences are valuable for their overall growth and preparedness for future career opportunities in artificial intelligence and data science.


THIAGARAJAR COLLEGE OF ENGINEERING
"Where quality and ethics matter"
(A Govt. Aided Autonomous Institution Affiliated to Anna University)
INNOHACKS
TECHUTSAV 2024
CERTIFICATE OF PARTICIPATION
This is to certify that
Mr/Ms JAGADHA R
of
SRM, MADURAI
has participated in Workshop & Events
as a part of TECHUTSAV-INNOHACKS'24 organized by
Thiagarajar College of Engineering, Madurai on 13th March 2024.
HOD
PRINCIPAL (I/C)

Monika S (911123243031), specializing in Artificial Intelligence and Data Science (AIDS), participated in technical events and workshops organized by Kalasalingam University and Thiagarajar College of Engineering.

1. **Kalasalingam University - Technical Event (Debugging, Coding Ninja):** Monika attended a technical event at Kalasalingam University, which likely included activities such as debugging and coding challenges (Coding Ninja). These events provide students with opportunities to showcase their programming skills, problem-solving abilities, and proficiency in software development. Participating in activities like debugging and coding challenges helps students sharpen their technical skills and prepares them for real-world challenges in the field of artificial intelligence and data science.
2. **Thiagarajar College of Engineering - Workshop and Event:** Monika participated in a workshop and event that cover a range of technical topics, including artificial intelligence, data science, and related areas. By attending these events, Monika may have had the opportunity to learn from industry experts, engage in hands-on activities, and network with peers who share similar interests. These experiences contribute to her overall growth and preparedness for future career opportunities in the field of artificial intelligence and data science.

Participating in technical events and workshops allows students like Monika to supplement their academic learning with practical experiences, gain exposure to industry trends, and develop essential skills required for success in their chosen field. These experiences play a crucial role in shaping their academic and professional journey in artificial intelligence and data science.


KALASALINGAM
EUPHORIA
Union Bank
enbott
CERTIFICATE

THIAGARAJAR COLLEGE OF ENGINEERING

"Where quality and ethics matters"

INNOHACKS

TECHUTSAV 2024

CERTIFICATE OF PARTICIPATION

This is to certify that

Mr/Ms MOHANA S

of

CEM, MADURAI

has participated in Workshop & Events

as a part of TECHUTSAV-INNOHACKS'24 organized by

Thiagarajar College of Engineering, Madurai on 13th March 2024

HOD

PRINCIPAL (I/C)

Nivethithaa.P (911123243035), pursuing a B.Tech in Artificial Intelligence and Data Science (AIDS), participated in INDCON'24 by presenting a paper.

INDCON'24 is likely a technical conference or symposium where researchers, students, and professionals gather to discuss and present their research findings, innovations, and developments in various fields, including artificial intelligence and data science.

Nivethithaa's participation in INDCON'24 through a paper presentation indicates her active involvement in research and academic activities related to her field of study. Presenting a paper at such a conference provides students with the opportunity to showcase their research work, receive feedback from peers and experts, and contribute to the academic discourse in their area of interest.

Participating in events like INDCON'24 allows students like Nivethithaa to stay updated with the latest advancements in their field, network with professionals and researchers, and gain valuable experience in presenting and communicating their research findings. These experiences are essential for their academic and professional development in the field of artificial intelligence and data science.

SOCIETY OF INDUSTRIAL ENGINEERS
DEPARTMENT OF INDUSTRIAL ENGINEERING
COLLEGE OF ENGINEERING GUINDY CAMPUS
ANNA UNIVERSITY, CHENNAI - 25

INDCON

CERTIFICATE

OF PARTICIPATION

THIS IS TO CERTIFY THAT MR / MS.

NIVETHITHAA

has participated in the event PAPER PRESENTATION conducted during INDCON '24, a National Level Techno - Management Symposium held during 26th - 28th March, 2024

Mrs. I.Kamala (Treasurer, SIE)

Dr.K.Palanivelan Panchu (President, SIE)

Dr.T.Paul Robert (HoD, IndE)

Shrinithi TR (911123243052), specializing in Artificial Intelligence and Data Science, participated in Techuchav (Techtionary).

Techuchav, often referred to as Techtionary, is likely a technical event or festival organized by an academic institution or a tech-focused organization. These events typically feature a variety of activities such as workshops, seminars, competitions, and exhibitions aimed at promoting technology, innovation, and entrepreneurship.

Shrinithi's participation in Techuchav indicates her interest and involvement in technology-related activities outside of her academic curriculum. Attending events like Techuchav provides students with opportunities to explore emerging technologies, network with industry professionals and peers, and gain practical insights into various aspects of technology and innovation.

As a student specializing in Artificial Intelligence and Data Science, Shrinithi's participation in Techuchav would have

likely allowed her to further her knowledge in these fields, stay updated with the latest trends and advancements, and engage in discussions with experts and enthusiasts. Overall, events like Techuchav contribute to the holistic development of students by fostering creativity, collaboration, and learning in a dynamic and interactive environment.

A. Annie Darling Kanmani (911123243007), pursuing a B.Tech in Artificial Intelligence and Data Science (AIDS), participated in Prompt Palooza, an event focused on distinguishing between AI-generated and human-written content based on the questions asked.

Prompt Palooza appears to be a unique event that challenges participants to provide clear instructions to a chatbot or AI model based on various types of questions, such as picture requests, programming queries, quotes, etc. The objective is to discern the differences between AI-generated responses and those generated by humans, specifically identifying which responses are the work of AI.

Participating in Prompt Palooza likely allowed Annie Darling Kanmani to gain hands-on experience in interacting with AI models, understanding their capabilities and limitations, and honing her skills in differentiating between AI-generated and human-generated content. This experience is valuable for students studying artificial intelligence and data science as it enhances their ability to evaluate and critique AI technologies, as well as their understanding of the nuances between AI and human creativity and communication.

Overall, events like Prompt Palooza contribute to the practical learning and development of students in the field of artificial intelligence and data science by providing them with opportunities to engage with AI technologies in real-world scenarios and explore the ethical and societal implications of AI advancements.

Lithisna. S (911123243027), pursuing a B.Tech in Artificial Intelligence and Data Science, participated in the SQL Knight competition at Kalasalingam University.

The SQL Knight competition likely focused on assessing participants' skills and knowledge in SQL (Structured Query Language), which is commonly used for managing and manipulating relational databases. Competitions like SQL Knight often involve tasks such as writing complex SQL queries, optimizing database performance, and solving database-related problems within a limited timeframe.

By participating in the SQL Knight competition, Lithisna had the opportunity to demonstrate her proficiency in SQL and showcase her ability to work with databases effectively. Competitions like these provide valuable hands-on experience and allow students to apply

their theoretical knowledge in practical scenarios, thereby enhancing their understanding and skills in database management and SQL programming.

In the realm of SRM MCET, students are not merely learners but active participants in a vibrant academic landscape. Across a multitude of institutions, these budding technologists engage in an array of events, workshops, and competitions, showcasing their skills and exploring the forefront of technological innovation. From hackathons to symposiums, their participation underscores a commitment to growth and excellence. These experiences serve as more than just academic exercises; they are stepping stones in their journey towards self-development and sustainability.

Faculty Corner

Patents Published/Granted

Faculty Name	Patent Title	Published/Granted
Dr.P.Piramanayagam	Bismuth Ferrite Nanoparticles In Functional Nanochannels: A Novel Approach To Enhance 4 Aminophenol Detection	Indian Patent - Published
Dr. T. Divya		
Dr.P.Piramanayagam	Exploring Bismuth-Based Double Perovskites For Solar Cells Using Machine Learning Perspective	Indian Patent - Published
	Innovative DNA-Based Nanoprobes For Flurorescent Imageing Of Cancer |Cells	Indian Patent - Published
	PD-Loaded Bismuth Ferrite: A Perovskite For Acetone Gas Sensing And Photocatalytic Dye Degradation	Indian Patent - Published
Dr. A.N.Balaji	Accident Detector Helmet	UK Patent Granted
Dr.K.Balamurugan	Virtual Reality Headset	UK Patent Granted
Dr. P. Krishnakumar	Automated Salt Harvesting Device	Indian Patent - Published
Dr. A. Narendran	Iot-Enabled Face Detection And Tracking Using Image Processing On Raspberry Pi	Indian Patent - Published

Book Published

Faculty Name	Book Title	Book Type
Dr. P. Krishnakumar	Environmental Sciences And Sustainability	E Book
Dr. Deepamangai	Embedded Systems And Iot	E Book
Dr. P. Gandhimathi	AI Revolutionizing Physics	E Book
	Materials Science	E Book
Dr. M. Senthamizhselvi		E Book
Dr. P. Tharcis	Basics Of Electrical Engineering	E Book

Journal Article Published

Faculty Name	Journal Title	Author Type
Dr. M. Sangeetha	Hybrid Mode Of Crop Yield Prediction Using Various Machine Learning Algorithms	Co-Author
Dr. A. Narendran	Characterizing And Modeling FPV Systems Using MATLAB Tools	Co-Author
Dr. P. Piramanayagam	Circular Economy Strategies For Resource Efficiency And Sustainable Development In Manufacturing Industries	Co-Author
Dr Rajkumar Subramanium	Synthesis, Characterization, And Evaluation Of Fluoride Removal Capacity Of Calcium-Impregnated Euphorbia Neriifolia Carbon (Ca-Enc)	First Author
Dr. R. Ashok Kumar	The Influence Of Tool Holder Size And Plate Position On The Characteristics Of Friction Stir Welding Different Aluminium Alloy	First Author
	Corrosion And Inhibition Studies On AISI 316 With Aisi 410 Fiber Laser Welded Joints	Co Author
Dr. S. Anitha	A Novel Coronavirus Model Using The Homotopy Perturbation Method (HPM)	First Author
Dr. A. N. Balaji	Mechanical Characteristics Of Naturally Woven Coconut Sheath/Short Sisal Fiber Reinforced Polymer Hybrid Composites"	Co Author
Dr.C.Callins Christiyana	Remote Patient Monitoring And Classification Of Diabetes Subtypes Classification Using Deep-Learning Reconstruction Algorithm	Co Author

Conference Article Presented / Published

Faculty Name	Article Title	Conference Type
Dr. A. N. Balaji	Mechanical Characteristics Of Naturally Woven Coconut Sheath/Short Sisal Fibre Reinforced Polymer Hybrid Composite	International Conference on Materials And Energy Science
Dr.K.Balamurugan	Implementation of Vendor Managed Inventory Process	International Conference on Recent Advances and innovations in Science, Engineering, Technology and Management (ICRAISETM-2024)
Dr. T. Divya	Results On Majority Neighborhood Number For Two-Dimensional Lattice Of $\boldsymbol{T} \cup \boldsymbol{C4}\ \boldsymbol{C8}[\boldsymbol{s}, \boldsymbol{t}]$ Rhomboidal Nanotube	International Conference on Emerging Trends In Mathematics And Statistics (ICETMS 2024)
Dr.S.J.Subhashini	Plant Disease Detection Using Deep Learning	International Conference on Communication and Signal Processing, ICCSP 2024

NPTEL Certification Courses Completed

Faculty Name	Course Title
Dr. A.N. Balaji	Operational Management, 12 Weeks
Dr. P. Krishnakumar	Structural Analysis I, 12 Weeks
Dr. M. Sangeetha	Joy Of Computing Using Python, 12 Weeks
Dr.C.Callins Christiyana	Joy Of Computing Using Python, 12 Weeks
Dr.S.J.Subhashini	Joy Of Computing Using Python, 12 Weeks
Dr. R. Ashok Kumar	Inspection And Quality Control In Manufacturing 4 Weeks
Dr. S. Anitha	Basic Calculus-I
	Mathematical Methods In Physics-1

Detail of webinars conducted by SRM MCET Faculty

Date of the event	Name of Event	conducted through Professional Society/Association/ Club/ others	Topic	Name of the Professional Society/Association/Club/Dept	Mode of Conduct
Jan-24	Webinar	Others	Advance Engineering in Oil & Gas Industries	R & D Cell	Online
Jan-24	Webinar	Professional Society	Behaviour Based Safety	Quality Circle Forum of India	Online
Jan-24	Webinar	Others	CFD Modeling in Industry 4.0.	Mechanical Engg	Online
Jan-24	National Level One Week Faculty Development Program	Professional Society	Cutting-Edge Developments and Research Frontiers in Mechanical Engineering	R&D Cell & ISTE Staff Chapter	Online
Jan-24	Online Quiz	Limousine Club	Commercial Vehicle	Limousine Club	Online
Jan-24	Webinar	Others	Product Development Process	R&D Cell	Online
Jan-24	Workshop	Others	Three Day workshop on Data Science for Healthcare Applications	IT	Online
Jan-24	Faculty Development Program	Professional Society	Faculty Development Program	CSE	Online
Jan-24	Webinar	others	AUGMENTED AND VIRTUAL REALITY	CSE	Online
Feb-24	Seminar	Civil Department and R&D cell jointly organised	Exploring the Frontiers of Research: Unveiling Opportunities and Confronting Challenges	Civil Engg	Offline
Feb-24	Webinar	Department of Mechanical Engineering and R&D Cell	Machining the Future: Emerging trends Reshaping Manufacturing	Mechanical Engg	Online
Feb-24	Webinar	Department of Mechanical Engineering and R&D Cell	Advance Research in Materials and Manufacturing industries	R & D Cell & Mechanical Engg	Online
Feb-24	Webinar	Department of EEE	IPR - the Trademark for Innovation	EEE	Online
Feb-24	Webinar	Department of ECE	DEVELOPMENT OF MEDICAL EQUIPMENT	ECE	Online
Feb-24	Webinar	Others	Emergence of Blockchain and its Implementations	IT	Online
Feb-24	Webinar	Professional society and Department of CSE	A Webinar on Project Automation Tool	CSE	Online
Feb-24	FDP	Club	A One week online FDP on Recent trends in Mathematical modelling and its applications	Aryabhatta MathematicsClub	Online
Feb-24	SCIENCE QUIZ	IIC	SCIENCE QUIZ	S&H	Online
Feb-24	Seminar	Civil Department and R&D cell jointly organised	Exploring the Frontiers of Research: Unveiling Opportunities and Confronting Challenges	Civil Engg	Offline
Mar-24	Seminar	Professional Society	Job Opportunities in Consulting Sector	Quality Circle Forum of India	Offline
Mar-24	Webinar	Mech Asso Event	Scope of Mechnaical Engineers for future Careers	Mech Marvels- Mech Association	Online
Mar-24	Online Quiz	Department of Mechnical Engineering	Basic Mechanical Engineering	Mech Marvels- Mech Association	Online
Mar-24	Workshop	Limousine Club (Mech Club Event)	Workshop on “OnShape”	Limousine Club (Mech Club Event)	Offline
Mar-24	Webinar	Department of Mechnical Engineering	Awareness Program on 5-S	Mechanical Engg	Online
Mar-24	Guest lecture	Association	Ever Green Electric-Past!Present!!Future!!!	IVolt Association	Online
Mar-24	Poster Presentation	Professional Society	Demonstration of Waste Water Management	Indian Water Works Association	Online
Mar-24	Webinar	Professional Society	IPR-The Trademark for innovation	ISTE chapter	Online

Mar-24	Webinar	IIC	Business model canvas (BMC)	IIC	Online
Mar-24	Competitive exam awareness program	Techtelligence-Association	Dr.M.Sangeetha	Mr.Karuppaiya, Higher education counselor	Online
Mar-24	Re-Engineering Coding Contest	Code Crackers Club	Dr.M.Pandi	_	Online
Mar-24	Workshop	Professional Society	WEB DESIGN USING HTML5,JS,CSS,BOOTSTRAP	CSE	Online
Mar-24	Multimedia Presentation	Association	Multimedia Presentation	CSE	Online
Mar-24	Unlocking Knowledge "TechTalk on Open Source Coding Platforms"	Club	Unlocking Knowledge "TechTalk on Open Source Coding Platforms"	CSE	Online
Mar-24	Aptitude training	club	Quantitative aptitude	Aryabhatta math club	Online
Mar-24	Seminar	Professional Society	Opportunities To Explore As A Civil Engineer	National Society for Fluid Mechanics and Fluid Power	Offline
Mar-24	Presentation on "Energy Efficiency Buildings – A case Study"	Association	Presentation on "Energy Efficiency Buildings – A case Study"	STRUCTA	Offline
Apr-24	Speaking Competition	Professional Society	Renewable Energy Sources	Quality Circle Forum of India	Online
Apr-24	Seminar	Professional Society	Seminar on " Floride in ground water -Benefits and bad uses"	IWWWA	Offline
Apr-24	Debate	Association	Debate on " Best and Worst of E vehicles"	Ivolt Association	Offline
Apr-24	Webinar	Others	Development of Medical Equipment	ISTE	Online
Apr-24	Poster Making in ECOSYSTEM RESTORATION	Club	Poster Making in ECOSYSTEM RESTORATION	ECLAT club	Offline
Apr-24	Debate	Association	Debate on AI Technology	Enigmatic	Offline
Apr-24	Seminar	Professional Society	Role of AI in Cyber Security	CSE	Online
Apr-24	Technical Connections	Association	Technical Connections	CSE	Online
Apr-24	Code Debugging	Software Evolution Club	Code Debugging	IT	Online
Apr-24	பேச்சுப் போட்டி	Club	சித்திரைத் திருவிழா	வைகறைத் தமிழ் மன்றம்	Offline
Apr-24	Webinar	Professional Society	Advanced Rainwater Harvesting Sysyems (Managed Aquifer systems)	National Society for Fluid Mechanics and Fluid Power	Online
Apr-24	Model Expo	CLUB	"Sustainability in Civil Engineering"	Green Concrete Club	Offline
May-24	Personality Development Program	Association	Personality Development Program	MECH MARVELS	Online
May-24	Seminar	Association	"Renewable Energy"	EEE Ivolt Association	Offline
May-24	Seminar	Club	Energy Conservation-Way to Conserve Energy at Home"	EEE Energy Club	Offline
May-24	Debate	Professional society	A National water grid for India a boon or a bane	IWWWA Society	Offline
May-24	Webiinar	IIC	IPR Awareness Programme	IIC	Online
May-24	Technical Debate	Association	Technical Debate	CSE	Online
May-24	Poster Presentation	Club	Poster Presentation	CSE	Offline
May-24	IIC LOGO COMPETITION	Association and IIC	IIC LOGO COMPETITION	IT	Online
May-24	Three day Physics Conclave	Science and humanities	Three day Physics Conclave	Physics Division	Online
May-24	Group Discussion	Professional Society	Impact of Construction of Dams	National Society for Fluid Mechanics and Fluid Power	Offline

FDP/Workshop Attended

Faculty Name	FDP Title	Duration
Dr. A.N. Balaji	AICTE QIP-PG Certificate Program In Emerging Areas	1 Day
	Intellectual Property Right & Patent Drafting	8 Days
Dr. K. Balamurugan	Intellectual Property Right & Patent Drafting	8 Days
	IPR And Draftinhg	9 Days
Dr. R. Prema Sumathi	SCILAB: Functions And Applications	7 Days
	Exploring Innovations In Mathematical Modelling And Its Applications	7 Days
Dr. J. Jeyaranjani	Data Science For Healthcare Applications	3 Days
	Data Science And Its Applications	3 Days
Dr. R. Ashok Kumar	Design Thinking And Innovations	5 Days
	Design Process And Application Of Additive Manufacturing	7 Days
Dr.D.Malathy	ICT Integrated Evaluation In Outcome Based Education	8 Days
Dr.S.J.Subhashini	Data Science For Healthcare Applications	3 Days
	Ethical Hacking	5 Days
	Salesforce Platform Developer 1	5 Days
Dr.C.Callins Christiyana	Salesforce Platform Developer 1	5 Days
Dr.T.Premkumar	Electric Vehicle	6 Days
Ms.G.Aninthitha	Data Science For Healthcare Applications	3 Days
	Project Automation Tool	1 Day

SRM Madurai College of Engineering and Technology, Sivagangai, successfully hosted the First Series of the National Conference (NCON'24), a comprehensive three-day event combining technical sessions and expert keynote addresses. This event was a collaborative effort spearheaded by the college's management, principal, organizing committee, faculty members, and students. The call for papers began on February 15th, 2024, and concluded on April 8th, 2024, resulting in over 200 entries from participants representing more than 50 colleges across Tamil Nadu and neighboring states.

Distinguished chief guests honored the event across the three days. On Day 1, Dr. G. Thavasi Raja and Dr. S. Moorthy from NIT Trichy, Dr. R. Saravana Ram from Anna University Regional Campus, Madurai, and Mr. M.J. Anand Kumar, Lead Engineer (R&D) at HCL Technologies, Bangalore, graced the event. Day 2 featured Dr. T. Senthil Kumar of Amrita School of Computing, Coimbatore,. Mr. C. Rajkumar, Chief Technology Officer at Delivery Blueprints India Pvt Ltd., Pune, Dr. E. Srie Vidhya Janani from Anna University Regional Campus, Madurai, and Mr. Ramkumar Manoharan, Co-Founder of Tensor Learning in Bangalore. On Day 3, the esteemed speakers included Dr. R. Selvaraj, retired Senior Principal Scientist & Head (Retd.) CSIR – CECRI Karaikudi, and Dr. M. R. Thansekhar, Professor of Mechanical Engineering at K.L.N College of Engineering, Sivagangai District. Throughout the sessions, the presence of the esteemed Principal and Chair of the organizing committee, Dr. S. Durairaj, along with the Organizing Secretaries from various departments, added further prestige to the conference

SRM MADURAI
COLLEGE FOR ENGINEERING AND TECHNOLOGY
Approved by AICTE, New Delhi | Affiliated to Anna University, Chennai

FIRST SERIES OF NATIONAL CONFERENCE
NCON' 2024

15th April to 17th April, 2024

In Association with

ICTACADEMY

Association and Clubs of SRM MCET

Chief Patron

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General Chair

Dr. S. Ramachandran

Director (Academics), SRM Group

Organising Chair

Dr. S. Durairaj, M.E., Ph.D., PDF, FIE.,

BOYSCAST Fellow

Principal, SRM MCET

About the College:

SRM Madurai College for Engineering and Technology (SRM MCET) is another milestone directed SRM Group of Educational Institutions. This institutes has a team of highly qualified, well-experienced, and committed faculty chosen from both academic and industrial backgrounds. It aims at providing world-class education through its state-of-the-art infrastructure to produce competent technocrats of global standards with moulding characteristic traits to uplift and serve humankind.

About the Conference:

NCON 2024 aims to bring together experts and professionals from various fields to exchange knowledge, insights, and innovative ideas on emerging trends and advancements in engineering and technology. The conference will serve as a platform for researchers, academicians, industry experts, and students to discuss and collaborate on topics related to sustainable development, digital transformation, and future technology trends.

Who can Attend?

UG - Final year students, PG students, Research Scholars Faculty of Engineering/ I&IU Polytechnic, Industrial participants. **"Online presentation can be allowed for other state participants (condition applied).**

Important Dates:

Full-length paper submission	15.02.2024
Notification of Acceptance	29.02.2024
Author Registration Begins	01.03.2024
Camera Ready Paper Submission	15.03.2024
Author Registration Deadline	31.03.2024

Registration Fees:

Rs. 500/- per head

Register here :

Call for Papers:

The article must be 8 pages typed in 12 font size of Times New Roman font. The full-length paper must be submitted in MS word file in IEEE format

- For articles with multiple authors, at least one must register. Only the registered presenter will receive a certificate. If co-authors want to attend, they must register and pay separately to receive their conference kits.

The selected paper will be published in reputed Journal

ORGANISING SECRETARY

- Dr. C. Cobin Christyana, HoD/CSE
- Dr. C. Vinotharani, HoD/ECE
- Dr. S. J. Subhasree, HoD / IT
- Dr. R. Ashok Kumar, HoD / Mechanical
- Dr. Angelin Lincy G, HoD /Civil
- Dr. P. Vinith, ASP /ECE

*All papers must be submitted through the respective department communication email address only.

ECE - National Conference on Recent Trends in Electronics and Communication Engineering - NCRTEC 2024

Topics:

- Signal processing for communications
- Image and video signal processing including surveillance systems
- Signal processing for security
- Multimedia applications
- Biomedical applications

EEE - National Conference on Future Trends in Smart Grids and Electric Vehicle Technology - NCSET 2024

Topics:

- Smart Energy meter using GSM
- Electric Vehicle applications
- Micro Grid – state of the art Problems
- Battery Management Systems in EV's
- Power Electronics Applications

CSE - National Conference on Recent Trends in Computer Science Engineering - NCRTCS 2024

Topics:

- AI and Machine Learning
- Block chain Technology
- Big data Analytics
- Pattern Recognition
- Cyber Security

IT - National Conference on Recent Trends in Intelligent Information Technology - NCIT 2024

Topics:

- Artificial Intelligence & Internet of Thing
- Deep Learning
- Quantum Machine Learning
- Healthcare Informatics
- Augmented and Virtual Reality

CIVIL - National Conference on Recent Trends in Civil Engineering - NCRTCE 2024

Topics:

- Building Information Modeling (BIM)
- Computer Aided Construction
- ICT in Environmental Engineering
- Alternate Building Material
- Infrastructure

MECHANICAL - National Conference on Cutting Research Technology in Mechanical Engineering - NCRTE 2024

Topics:

- Automation, Mechatronics and Robotics
- Automobile Engineering
- CAD/CAM/CIM
- Composite and Smart Materials
- Fluid & Solid Mechanics

*Topics are not limited to the above specific areas

KEYNOTE SPEAKERS

ADVISORY COMMITTEE

- Dr.K. Arunachalam, Thiagarajar College of Engineering, Madurai.
- Dr. Rashid Pal Singh, CSIR - NGRI, Hyderabad.
- Dr.R. Senthilkumaran, CSIR-CRRI, Roorkee.
- Dr. Bibhuti Bhusan Das, NITK, Surathkal.
- Dr.S.Gnaha, VIT University, Chennai.
- Dr.A.M.Kalpana, GCE, Salem.
- Er.M.Ashok Kumar, Honeywell Technology Solutions, Madurai.
- Dr.R. Preeth, IIITDM, Kancheepuram.
- Dr. Sumathma S Chattopadhyay, IIT Hyderabad.
- Dr. Vinod V, Government Engineering College Barton Hill, Trivandrum.
- Dr. Sabarinath Sivi, Centre for Intelligent Systems, CQ University Australia.
- Dr. Suresh Mikkili, NIT, Goa.
- Dr.P. Srinivasa Rao Nayak, NIT, Trichy.
- Manisha Thebay, Institutional development & information Relations, Bhopal.
- Dr.S. Pauldurai, NIT, Trichy.
- Dr.S. Gobi Krishnan, NIT, Trichy.
- Dr. Preeth, R, IIITDM, Kancheepuram.
- Dr.M.Perumalsamanian, MIT, Chennai.
- Dr. M.S Saravan, IIITDM, Kancheepuram.
- Dr.R. Parthasarathy, NIT Trichy.
- Dr.N.Kamalkannan, KARE, Krishnankoil.
- Dr.Senthilkumar Palaniswamy, Director of Engineering, Bangalore.
- Dr.N.Sivakolundu, NTT Data ,Bangalore.
- Dr.Surendra Umamaheswaran, Zalando SE, Berlin.
- Dr.S.Poonkuzhali, VIT, Bhopal.
- Mr.Ramakrishnan, TCS, Bangalore.
- Dr. Sudhakar Ramakrishna, University Malaysia Pahang Al Sultan Abdullah, Malaysia.
- Dr.Suresh Neelakantan, IIT, Delhi.
- Dr.M.Udhayakumar, KARE, Krishnankoil.
- Prof.A.Saravanan, BCT, Tech, ELCOT IT Park, Madurai.
- Dr.C.Dharmaraja, Anna University Regional Campus , Madurai.
- Dr.K.Sarala, Alagappa Chettiar Government College of Engineering & Technology, Karaikudi.