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Empowering Engineers...

SCADCET TIMES

Monthly Magazine

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Cheranmadevi | Tirunelveli | Tuticorin | Coimbatore | Chennai

November, 2023

Incubation Inauguration

MoU signed by DADB, German Academy of Digital Education

Hostel Day Celebration 2023

SCADCET RECEIEVES INDIA'S EDUACTION EXCELLENCE AWARD 2023

It is an immense pride to announce that our SCAD College of Engineering and Technology has been awarded as one of the top Engineering and Technology Institute in South India for the Year 2023 from IBC & Berkshire Media Pvt. Ltd.

Hostel Day Celebration 2023

The hostel day celebrations was organized in our Campus by all the hostel inmates on 07-11-2023. The event was preceded by Mr. R. Thambithurai, General Manager (SCAD Campus) who was invited as guest of honour. Along with guest Dr. A. Justin Diraviam, Principal, Mr. S. Jeyapandi, Administrative officer, and Dr. S. Sundararajan, IQAC Director were welcomed as dignitaries on stage. A speech was delivered by Mr. S.Jeyapandi, Administrative officer who explained the importance of hostel in students life. Then Dr. S. Sundararajan, IQAC Director explained the role of food adulterants and its impact in leading our routine and healthy life. Various events were organised by 3rd year hostel students for the students residing at the hostel. Prices were distributed by General Manager for the students those who have participated in various events. Finally, Mr. PremChandar congratulated the third year students for arranging the hostel day in a grand manner.

INSTITUTION ACHIEVEMENTS

SCAD College of Engineering and Technology has been Ranked in the Band

"PROMISING"

ARIIA
ATAL RANKING OF INSTITUTIONS ON INNOVATION ACHIEVEMENTS

Out of 14,505 Technical Institutions, SCADCET has been ranked one of the top Institutions in India.

INSTITUTION'S INNOVATION COUNCIL
(Ministry of Education Initiative)

4 Star Status by the Ministry of Education, Govt. of India.

For Innovation and Entrepreneurship

SCAD Group 40 Years of Excellence

Institution's Innovation Council (IIC)

For the Academic year 2022-2023 SCAD Collge of Engineering and Technology has got four star ranking from the Institution's Innovation Council (IIC). This four star Ranking Certificate was awarded by Minstry of Education. All over India a total of 3426 colleges participated in Institution's Innovation Council (IIC). We are one among the toppest Institution in India

Oneyes Infotech Solutions

Incubation Inauguration

Oneyes Infotech Solutions, Chennai has started its incubation centre at SCAD College of Engineering and Technology, Cheranmahadevi – 627 414 from 4th November 2023, Saturday. The day started with a welcome address by Dr. J. AllwynKingslyGladston, Dean Placement followed by a Felicitation note delivered by Dr. A Justin Diraviam, Principal and Mr. R. Thambithurai, GM/SCAD Campus. The Presidential address was delivered by Mrs. K. Vanitha, Director, Oneyes Infotech Solutions and Mr. Yogeeskumar, Team Lead, LTI Mind Tree. The benefits of incubation are providing internship, placement with high salary package, free skill training program for students on latest technologies, faculty development program and support the institution in research and development. An Incubation centre with high configuration computers was setup inside the college campus. The centre was opened with ribbon cutting by Mrs. Vanitha, Director, Oneyes Infotech Solutions and Mr. R. Thambithurai, GM/SCAD Campus. The team of Oneyes technologies visited and examined the facilities available the incubation centre. The program was coordinated by Dr. J. AllwynKingsly-Gladston, Dean Placement.

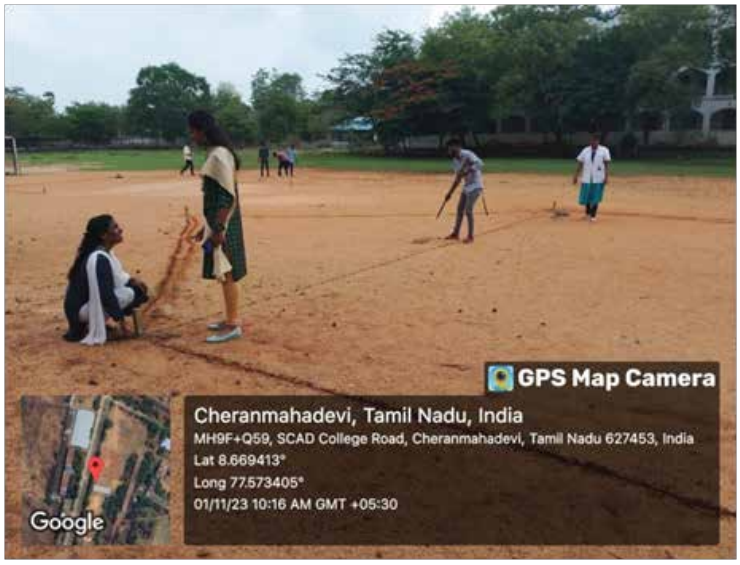
MoU signed by Oneyes Infotech Solutions

It is a great delight to announce that a Memorandum of Understanding is signed between Oneyes Infotech Solutions and SCAD College of Engineering and Technology on 03rd November 2023, Saturday at SCADCET.

Mandatory Skill Training

Department of Civil Engineering - Survey Lab

From the Department of Civil Engineering a Mandatory skill training program was conducted for the higher semester students of II Year CIVIL Engineering on 01 to 15 -11-2023. All the registered students attended the skill training on the topic "SURVEY &COST ESTIMATION". The Students have attended and gainedknowledge in. This Skill Training was conducted by B. SIVA PRIYA, AP/Civil.



Department Of Computer Science and Engineering Website Designing

Mandatory skill training on "Website Designing" was conducted for II year students on 01 to 15-11-23. Around 125 students attended training and learned to create links and forms in a webpage. This Skill trainingsession was handled by 1. Mrs. KaniJesintha 2. Mrs. JebaJenitha 3. Mrs. Mahalakshmi 4. Mrs. ArunPriya K

Department of Electronics & Communication Engineering Embedded systems design

On November 1 to 15, 2023, the Electronics and Communication Engineering department organized a skill training program titled "Embedded systems design "for second -year ECE students. On day of the training the focus was on installation of Aurduino IDE and introduction to tinker cad.Students were trained in designing and simulation of various electronic circuits.A total of 26 students actively took part in this session and found it highly beneficial. The feedback received from the students about the training was overwhelmingly positive. Mrs.EbensNikshya AP/ECE was the skill trainer for this session.

Department of Electrical and Electronics Engineering Embedded systems design

On November 1 to 15, 2023, the Department of Electrical and Electronics Engineeringorganized a skill training program titled "Embedded systems design"for second -year ECE students. The first day of the training focused installation of Aurduino IDE and introduction to tinker cad.Students were trained in designing and simulation of various electronic circuits.Atotals of 35 students actively took part in this session and found it highly beneficial. The feedback received from the students about the training was overwhelmingly positive. Mrs.AngelSelvapackiam was the skill trainer for this session.

Department of Mechanical Engineering - GD&T

A Technical Skill training for II year students has been scheduled from 1 to 15.11.23 (10 days) on GD&T. Day 1 has started with the kick-off session from the faculty trainer who briefs about the task on hand for day 1 and importance and career opportu-

Mandatory Skill Training

-nities through GD&T. As the skill is a design based skill, it is confined to drawing sheets. The students practiced all design concepts on feature control frame generation and identification of features and feature of size. In the Afternoonsession the batch members were provided with Mechanical components and were asked to they identified the FoS on the given component. Eventually the students took assessment of day 1. The session was end with a closing meeting by faculty trainer.

Skill Training for School Students

A Skill Training session was conducted for 6, 7, 8, 9 and 11th Grade students of SCAD International School on 1 & 02-11-2023. The students were trained on Basic Carpentry and Tool Identification, House Planning, MS Office by our faculty members Mr. SelvaSudhakar, Asst. Professor/Mech, Mrs. A. Santhiya, Asst. Professor/Civil and Mrs. Clarinda, Asst. Professor/MBA. Director (Admission) Dr. John Kennady encouraged all the school students. This session was coordinated by Mr. S. Jeyapandi, Administrative Officer.

A Skill Training session was conducted for 6, 7 & 8th Grade students of Govt. Hr. Sec. School, Kalakadu on 07-11-2023. The students were trained on Basic Survey Techniques and 3D printing by our faculty member Mr. Ratheesh, Asst. Professor/Civil.

Skill Training for School Students

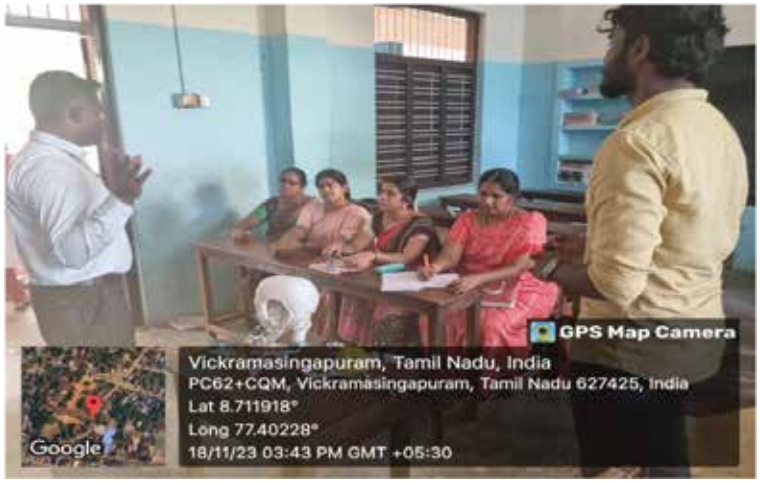
A Skill Training session was conducted for 8th&9thGrade students of Govt. Hr. Sec. School, Kalakadu on 08-11-2023. The students were trained on Laptop/Desktop Assembling & Dismantling, CCTV Installation by our faculty member Dr. Karthick Ganesh, Professor/CSE and Mr. Vijay Prakash, Asst.Professor/ECE.

A Skill Training session was arranged for 8th Grade students of Govt. Hr. Sec. School, Kalakadu on 09-11-2023. The students were trained on Google Tools & Apps, House Planning, Basic Carpentry & Tool identification by our faculty member Mrs. ManickaPrabha, Asst. Professor/CSE, Mrs. A. Santhiya, Asst. Professor/Civil and Mr. Selvasudhakar, Asst. Professor/Mech. Director (Admission) Dr. John Kennady and Dr. S. Sundararajan, IQAC - Director encouraged all the school students. This session was coordinated by Mr. S. Jeyapandi, Administrative Officer.

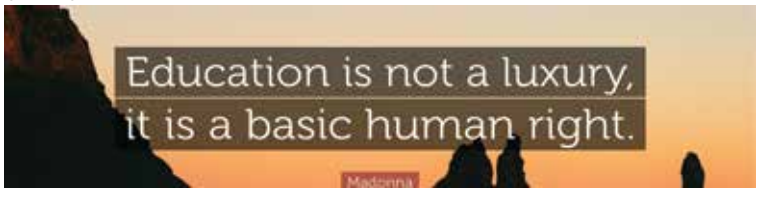
Skill Training for School Students

A Skill Training session was arranged for 9th Grade students of Govt. Hr. Sec. School, Moolakaraipatti on 16-11-2023. The students were trained on Desktop Assembling & Dismantling, CCTV Installation by our faculty member Dr. Karthik Ganesh, Professor/CSE, Dr. Anand J Dhas, Asso. Professor/ECE.

A Skill Training session was arranged for 8th& 9th Grade students of Amali Girls Hr. Sec. School, V.K. Puram on 18-11-2023. The students were trained on 3D printing and Robotics by our faculty member Mr. Senthil Kumar, Asst. Professor/Mech and Mr. Kesavan, Mech IV year, Arjun, IV Mech, Aneesh Kumar, IV Mech, Keerthi Kumar, IV ECE, BoopathyPrasant, IV ECE.



A Skill Training session was provided for students of 6, 7, and 8th Grade of Almighty Matric. Hr. Sec. School on 22-11-2023. The students were trained on 3D printing and Robotics by our faculty member Mrs. Bhuvaneshwari, Mrs. A. Santhiya, Ms. JebaJenita and Mrs. Clarinda.



A Skill Training session was arranged for 11th&12th Grade students of Servite Matric Hr. Sec. School, V.K. Puram on 25-11-2023. The students were trained on Basic Survey Techniques by our faculty member Mr. Ratheesh, Asst. Professor/Civil, Mr. Ferminus Raj, Asst. Professor/EEE and Dr. Ann Rufus, Asso. Professor/EEE. The ward was distributed by Dr. Alok Kumar (IPS), Director General Of Police, Karnataka police and Hemant Kaushik,CEO, IBC CORP USA at Hotel TAJ Yeshwantpur in Bengaluru, Karnataka, on Saturday, 25th November 2023.

A Skill Training session was arranged for 9th Grade students of Child Jesus Matric. Hr. Sec. School, Palayamkottai on 28-11-2023. The students were trained on Basic Electronics&Desktop Assembling & Dismantling by our faculty member Mr.Ferminus Raj, Asst. Professor/EEE and Dr.Karthik Ganesh, Professor/CSE.

Skill Training for School Students

Skill Training was given for 9th Grade students of Child Jesus Matric. Hr. Sec. School, Palayamkottai on 29-11-2023. The students were trained on CCTV Installation by our faculty member Mr. Barath, Asst. Professor/Mech and Mr. Vijay Prakash, Asst. Professor/ECE.

Skill Training was given for 9th Grade students of Child Jesus Matric. Hr. Sec. School, Palayamkottai on 30-11-2023. The students were trained on MS Word and Google Tools & Apps by our faculty member Dr. K. Clarinda, Asst. Professor/M-BA, Mrs. Jeba Jenitha, Asst. Professor/CSE and Mrs. Valli, Asst. Professor/Maths.

MoU
MoU signed by DADB, German Academy of Digital Education

It is a great delight to announce that a MoU is signed with DADBGerman Academy of Digital Education on 29-11-2023. This will motivate our students towards their placement. The signing process has taken placein presence of our Principal Dr. A. Justin Diraviam, Dr. S. Sundararajan, IQAC Director and Dr. AllwynKingslyGladson, Dean, Training and Placement.

Department News

Department of Mechanical Engineering Online Webinar

Mr. R. Thirupathieswaran, Asst. Professor/-Mech has acted as a chief guest for an online webinar on Orientation Session on ARIIA and IIC Activities organized by DMI Engineering College. His participation is highly appreciated.

Club Activity - Traditional and Knowledge

The Department of Mechanical Engineering conducted a club activity entitled ADITYA L1 SPACE CRAFT (Max. words not exceed 300-500) ESSAY

Department News

WRITING COMPETITION on 31.10.2023 from 3.00 pm to 4.00 pm. Around 25 students from various department actively participated in this program. The club activity was coordinated by Mrs. K.BUVANESWARI.

Career Guidance Programme

The Department of Mechanical Engineering organized a CAREER GUIDANCE PROGRAME on PLANT MAINTENANCE & PRODUCT DEVELOPMENT on 02nd November 2023. The Programme started witha Prayer followed by a welcome speech by Dr. P. Neopolean, HOD/Mechanical. A speech was then provided by Principal, Dr. A. Justin Diraviam, who encouraged the students possess emotional Intelligence. On this event different Plant Maintenance & Product Development topics were delivered by the resource person Mr. Sheik MdMansoor Ali, explored about various Career opportunities and Growth in Mechanical core field. He spoke about his experience and guidance to get the core jobs and also motivate the students.

Department of Electronics & Communication Engineering
Creative Club

A poster designing competition was organized by the Department of Electronics and Communication Engineering as per the schedule of Creative club activities. The theme of the poster designing event was "Pollution: Ways to tackle it ". Around 30 students from ECE departments actively participated in this competition. This club activity was coordinated by Mr.M.Ashok Kumar, AP/ECE. The students had an opportunity to learn how create innovative posters in a professional manner.

Hackathon, HACKHUB-2024

On behalf of the Department of Electronics and communication Engineering a 24 hour round the clock smart Hackathon, HACKHUB-2024 was conducted on "Embedded systems design "on November 15.2023. The students creativity were judged and assed by Mr.AugusvinJerish J K, Senior developer,HCL Technologies, Bangalore. The First prize was won by Madhavan and team for Line following robot designed. The second prize was taken by Maniraj and team for Smart dustbin project and the third prize was secured by Aaron and team. The entire program was successfully handled by the skill mentor Mrs.EbensNikshya.

Department News

Techno Club

Techno Club(TC) of the Department of ECE conducted an event “Paper Presentation on Emerging technologies” on the 17th of November r,2023 from 2.30 pm to 4 pm under the guidance of faculty coordinators Mrs.D.Yamini.AP/ECE. The event was held in the PG lab and was coordinated by the student members of the TC club. The presentation primarily focussed on bringing out innovative ideas from students on the latest trending technologies like Artificial Intelligence, Iot, Machine Learning, Blockchain,cyber security etc.Students from various departments actively participated for the same. The students were evaluated by Mr.Asirvatham HOD/ECE. It was evaluated based on their technical knowledge, soft skills and their presentation.

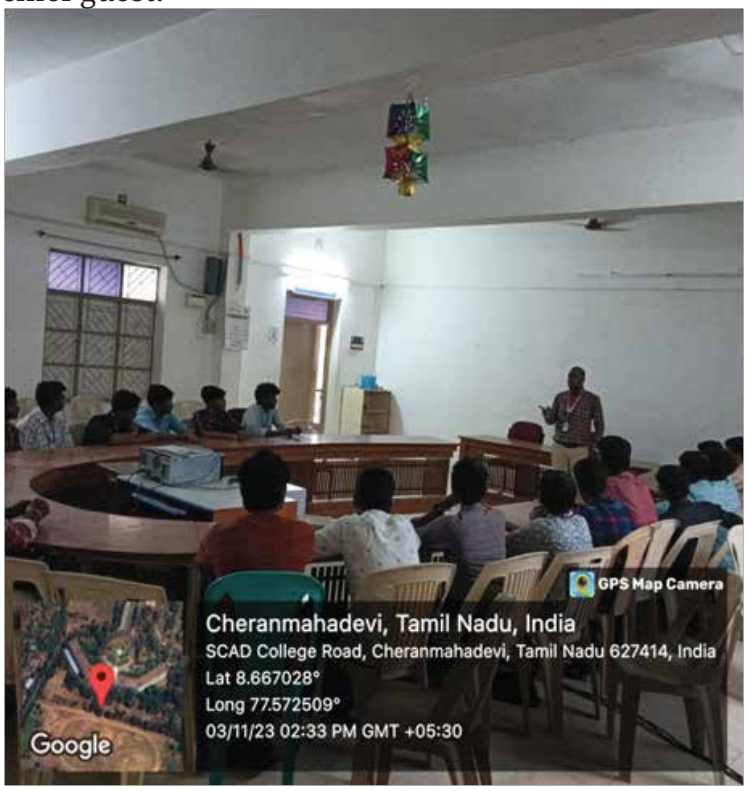
The event concluded successfully with the participants and the audience learning the latest advancements in technology and motivated us with researching and working on these topics.

Department of Computer Science & Engineering

Entrepreneurship Cell

The Thrust for Engineers towards Innovation

The department of CSE in association with Institution's Innovation Council, organized a Session on “The Thrust for Engineers towards Innovation” on 3.11.2023 The session was presided by the chief guest Mr. John Sekar, Asst. Professor/Maths who spoke about the transformation of ideas into innovation which motivated the participants to come up with flourishing thoughts. He also spoke about the various solutions for problems and how to convert them into products. Students got motivated with numerous ideas to transform new ideas into innovation .The entire session went on well through the interaction between student innovators and the chief guest.



Club Activity - Online Quiz on Java Programming

On behalf of the Coding Club, the Department of Computer Science and Engineering conducted an "online quiz on Java programming" on 17-11-2023(International Students Day). 56 students actively participated in the event and exhibited their technical knowledge through this quiz. This event was coordinated by Mr. A. Essaki Muthu, AP/CSE.

Evening Skill Training

On November 22, 2023, the Department of Computer Science and Engineering organized the first day of skill training program on “Code Craft: Java Mastery Training” for second - year CSE ,ECE,-CIVIL& EEE Students. The day focused on Code Craft. Students were trained in Coding level . A total of 23 students attended the skill. Mrs. KaniJesintha, Asst. Professor/CSE has been the skill trainer for this session.

Department News

Department of Management Studies

Entrepreneurship Development Cell

The Entrepreneurship Development Cell of MBA organized a seminar on 10.11.2023. The theme of the session was a guest talk on “Unlocking the Ideator in you”. The main objective of this program was to encourage the MBA students to unlock their hidden ideas related to the business. The session started with a welcome address by Ms. G. Siva Sakthi, I MBA student and the interactive session was presided over by the Chief Guest Mr. R. Thirupathieswaran, Professor/EDC, SCADCET who shared knowledge about the need for creative and innovating thinking and also encouraged to create new product development and innovation. The session was end with a vote of thanks. E-Certificates were also given to the participants.

Sports and Cultural Club

As a part of Sports and Cultural Club, the Department of Management Studies organized an event “Fusion Festivity” on 10-11-2023. Diwali, the festival of lights, brings with it an array of vibrant traditions and joyful celebrations. Whether it’s in your décor, fashion, or even your culinary choices, fusion styling allows you to blend the best of both worlds, creating a unique and memorable Diwali experience. This event was coordinated by Ms. M. Santhiya, Asst. Professor/MBA.

Alumni Interaction

As a part of Alumni Association, the Department of Management Studies organized a session on "Interview Process and Work Culture in Gaming Industry" by Mr.Arwin, Operation Head in Casino in Lagos in Philippines. Online gaming has drastically increased the scope and size of video game culture. Online games have attracted players of a variety of ages, nationalities, and occupations.The online game content is now being studied in the scientific field, especially gamers' interactions within virtual societies in relation to the behaviour and social phenomena of everyday life. Embracing all that student life has to offer, students can learn, grow, and develop into well-rounded and successful individuals, and also share the advantages and disadvantages about online gaming. This event was coordinated by Ms.P.Antony Jancy, Assistant Professor/MBA.The ward was distributed by Dr. Alok Kumar (IPS), Director General Of Police, Karnataka police and Hemant Kaushik,CEO, IBC CORP USA at Hotel TAJ Yeshwantpur in Bengaluru, Karnataka, on Saturday, 25th November 2023.

Department News

Department of Civil Engineering

Eco Cultural Club
Poster Presentation Competition

On behalf of the Eco Cultural Club, the Department of Civil Engineering has organised a poster presentation competition on 17.11.2023 with regard to International Students Day celebrations. Students from various departments actively participated and presented their posters on the topic 'FAIL: stands for First Attempt in Learning'. Around 42 students actively participated and motivated the participants with their posters. The event was coordinated by Mr.C.R.T. Suria Prakash AP/Civil, Indhu Rani Vigneshwari and Anandhi III/Civil.

Alumni Guest Lecture

Alumni guest lecture on the topic "Skills Required for Better Placement Offers" was successfully conducted by the Department of EEE, SCAD CET, on 20th November 2023. The alumni lecture was organized for II Year students, and the contents covered were beneficial. The guest lecture started with the introduction of Mr. Arumugaraj, E. (Alumni SCADCET 2021 batch), HR Admin, TVS, Chennai. The objective of this guest lecture was to provide conceptual clarification about the skills required for industry. Mrs. J.Y. Angeline Jemina AP/EEE organize the programme.

Hackathon - Hackhub24

A dynamic 24-hour software and hardware Hackathon, Hackhub24 was organised by the Training and Skill Development team on 14and 15th November 2023. The participants engaged in an intensive coding and hardware development session, demonstrating their proficiency in various programming languages and innovative hardware solutions. The Hackathon aimed to foster collaboration, creativity, and problem-solving skills among the participants.Throughout the event, teams worked tirelessly to address real-world challenges through cutting-edge software applications and hardware prototypes. Mentors and industry experts were on hand to provide guidance, enriching the learning experience for the participants.As the clock ticked away, the atmosphere buzzed with excitement and anticipation. The Hackathon not only provided a platform for participants to showcase their talents but also encouraged networking and knowledge exchange among peers.The organizing committee expressed their satisfaction with the high level of enthusiasm and dedication exhibited by the participants. Judges evaluated the projects based on creativity, technical proficiency, and practicality, making the competition fierce.

The closing ceremony, scheduled on 15/11/23, 2:00 pm announced the winners and recognize outstanding contributions. The event's success underscores SCAD College's commitment to fostering technological innovation and preparing students for the challenges of the digital era. Around 250 of II year students participated in this programme. This programme was coordinated by Dr. Arul Jose, Professor/TSD, Mr. Santhana Krishnan, Professor/M.Team.

Research and Developments

Article Publication

"That's great to hear! It sounds like Mr. R. Santhana Krishnan, Assistant Professor/ECE, Mr. R. Thirupathieswaran, Assistant Professor/Mech and Mr. A. Essaki Muthu, Assistant Professor/CSE have made a significant contribution with their paper "IoT Enabled Waste Management Optimization Framework (IWMOF)" being published in the Proceedings of the 3rd International Conference on Pervasive Computing and Social Networking (ICPCSN 2023) and indexed in Scopus. Research in the field of IoT-enabled waste management optimization is essential for addressing environmental and social challenges. If you have any specific questions or if there's anything else you'd like to know about this topic, feel free to ask". Their contribution is highly appreciated.

Mr. R. Santhana Krishnan
Asst. Professor/ECE

Mr. A. Esakki Muthu
Asst. Professor/CSE

Mr. R. Thirupathieswaran
Asst. Professor/Mech

IoT Enabled Waste Management Optimization Framework (IWMOF)

That's wonderful news! It sounds like Dr. R. Karthik Ganesh, Professor/CSE has made a significant contribution with their paper "Telemedical Robot Using IoT with Live Supervision and Emergency Alert" being published in the Proceedings of the 3rd International Conference on Pervasive Computing and Social Networking (ICPCSN 2023) and indexed in Scopus. This kind of research is crucial for advancing telemedicine and improving healthcare services. His contribution is highly appreciated.

Dr. R. Karthik Ganesh
Asst. Professor/CSE

Telemedical Robot Using IoT with Live Supervision and Emergency Alert

That's impressive! Mr. K. John Samuel Raj and Dr. Relin Francis Raj, Assistant Professors of the ECE department, along with K. Janarthanan, A. Mahesh Raj, A. EssakiSuriya, and M.Durairaja, final year students of the ECE Department, have made a significant contribution with their paper titled "Enhancing Pool Safety and Efficiency with an IoT Supported Monitoring System" being published in the Proceedings of the 3rd International Conference on Pervasive Computing and Social Networking (ICPCSN 2023) and indexed in Scopus. Their work on enhancing pool safety and efficiency through IoT is commendable. Their contribution is highly appreciated.

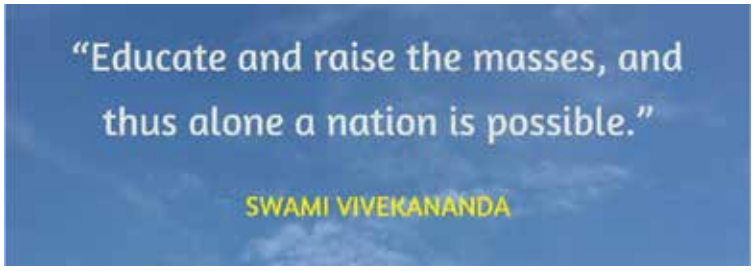
Dr. Relin Francis Raj
Assoc. Professor/ECE

Mr. K. John Samuel Raj
Asst. Professor/ECE

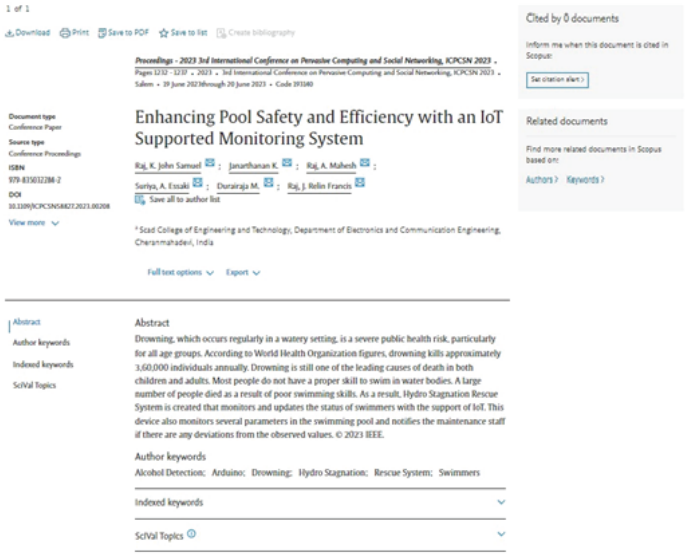
Mr. K. Janarthanan
2019 Batch ECE

Mr. Mahesh Raj
2019 Batch ECE

Mr. EssakiSuriya
2019 Batch ECE



Research and Developments



Enhancing Pool Safety and Efficiency with an IoT Supported Monitoring System

Raj, K. John Samuel ; Janarthanan K. ; Raj, A. Mahesh ;
Suriya, A. Essaki ; Durairaja M. ; Raj, J. Relin Francis
Save all to author list

* Scad College of Engineering and Technology, Department of Electronics and Communication Engineering, Cheranmahadevi, India

Abstract

Drowning, which occurs regularly in a watery setting, is a severe public health risk, particularly for all age groups. According to World Health Organization figures, drowning kills approximately 3,60,000 individuals annually. Drowning is still one of the leading causes of death in both children and adults. Most people do not have a proper skill to swim in water bodies. A large number of people died as a result of poor swimming skills. As a result, Hydro Stagnation Rescue System is created that monitors and updates the status of swimmers with the support of IoT. This device also monitors several parameters in the swimming pool and notifies the maintenance staff if there are any deviations from the observed values. © 2023 IEEE.

Author keywords

Alcohol Detection; Arduino; Drowning; Hydro Stagnation; Rescue System; Swimmers

Indexed keywords

SciVal Topics

It's truly commendable! Mr. M. Ashok Kumar, Assistant Professor of the ECE Department, and Dr. A. Justin Diraviam, Professor of the ECE Department, along with final year students Banupriya K, Durga N, Sadhana Shree Dharmarajan, and S. Keerthik Kumar, have made a significant contribution with their paper titled "Smart Voice-Guided Assistance Stick for the Visually Impaired" being published in the Proceedings of the 3rd International Conference on Pervasive Computing and Social Networking (ICPCSN 2023) and indexed in Scopus. Their work on assisting the visually impaired with smart technology is of great importance. Their contribution is highly appreciated.

Dr. A. Justin Diraviam
Principal

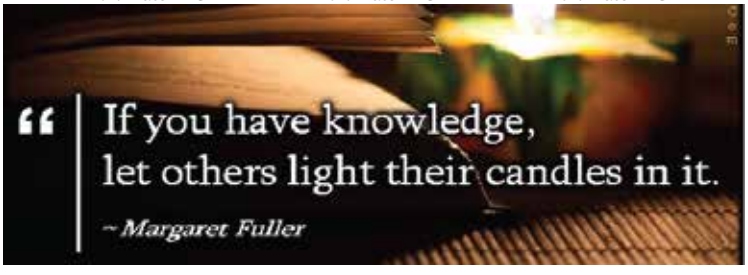
Mr. M. Ashok Kumar
Asst. Professor/ECE

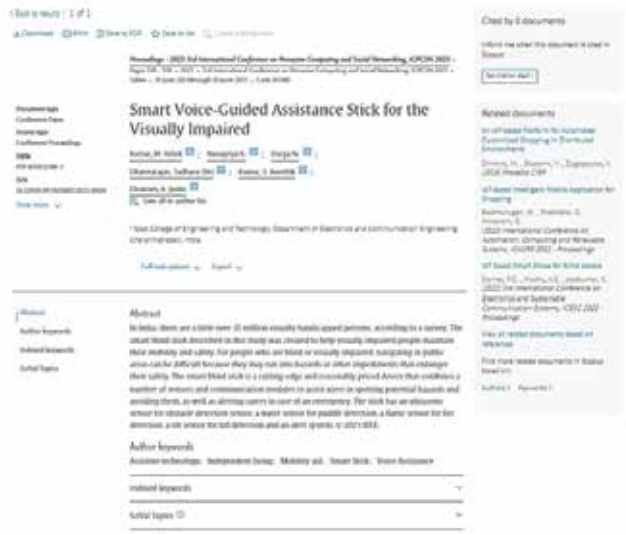
Mr. S. Keerthi Kumar
IV ECE

Ms. SadhanaShreeDharmarajan
2019 Batch ECE

Ms.K.Banupriya
2019 Batch ECE

Ms.K.Banupriya
2019 Batch ECE





Smart Voice-Guided Assistance Stick for the Visually Impaired

It's excellent to hear about the publication of their paper! Dr. Sundararajan, Professor/Mech, and Mr. S. Ram Prasath, Assistant Professor/CSE have made a valuable contribution with their paper titled "Future of Shopping: IoT Enabled Automatic Bespoke Shopping" being published in the Proceedings of the 3rd International Conference on Pervasive Computing and Social Networking (ICPCSN 2023) and indexed in Scopus. Their research on the future of shopping with IoT technology is an exciting area with the potential to transform the retail industry. Their contribution is highly appreciated.

Dr. Sundararajan
Professor/Mech

Mr. S. Ram Prasath
Asst. Professor/CSE

Future of Shopping: IoT Enabled Automatic Bespoke Shopping

Research and Developments

Congratulations to Dr. M.M. Vijay, Asso. Professor/ECE on publication of his article titled, "Hybrid deep learning model based smart IoT monitoring system for Covid-19," in Heliyon Open Access Journal, with an Impact Factor of 4 and Scopus indexing, is truly impressive. His research is not only innovative but also atimely one which has made a real impact.

Dr. M.M. Vijay
Asso. Professor / ECE

Congratulations to Dr. S. Sundararajan, Professor in the Mechanical Department and Mr. M. Ashok Kumar, Assistant Professor in the ECE Department, on the publication of their paper titled "EcoGuard: Uniting IoT and AI to Secure Forests and Combat Climate Change in Real-Time" in the Proceedings of the 4th International Conference on Smart Electronics and Communication, ICOSEC 2023. It's indeed a remarkable achievement that their work has been indexed in Scopus! This research represents a significant contribution to environmental conservation, demonstrating the practical significance of uniting IoT and AI to protect forests and combat climate change in real-time.

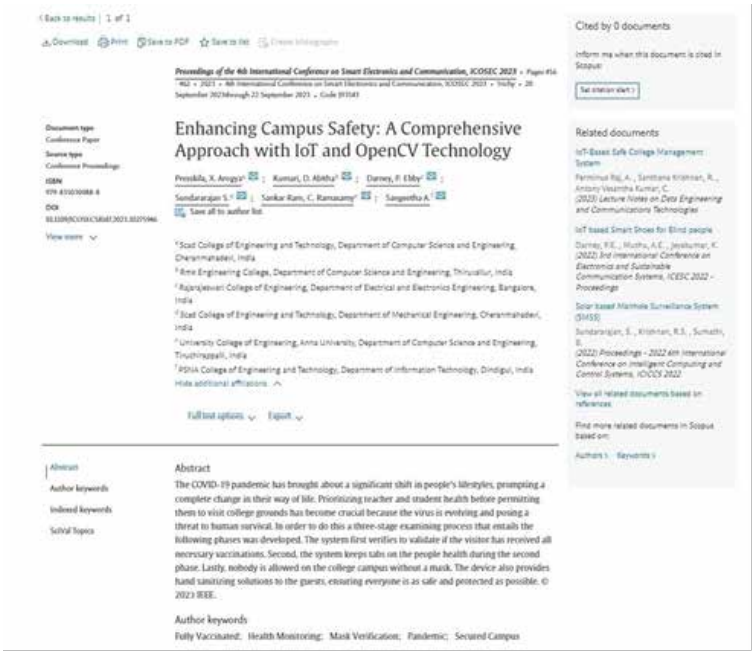
Dr. S. Sundararajan
Professor/Mech

Mr. M. Ashok Kumar
Asst. Professor/ ECE

Congratulations to Dr. S. Sundararajan, Professor in the Mechanical Department and Dr. X. ArogyaPresskila, Assistant Professor in the CSE Department, on the publication of their paper titled "Enhancing Campus Safety: A Comprehensive Approach with IoT and OpenCV Technology" in the Proceedings of the 4th International Conference on Smart Electronics and Communication, ICOSEC 2023. It's indeed a remarkable achievement that their work has been indexed in Scopus! This research represents a significant contribution to improving campus safety by harnessing the power of IoT and OpenCV technology, highlighting the practical significance of their work.

Dr. S. Sundararajan
Professor/Mech

Dr. X. ArogyaPresskila
Assoc. Professor/CSE



Congratulations to Mr. S. Jeyapandi, Assistant Professor in the Mechanical Department, on the publication of his paper titled "Facial Movement and Voice Recognition Based Mouse Cursor Control" in the Proceedings of the 4th International Conference on Smart Electronics and Communication, ICOSEC 2023. It's indeed a remarkable achievement that his work has been indexed in Scopus! This research represents a significant contribution to the field of

Research and Developments

human-computer interaction, showcasing the practical significance of their work in enhancing mouse cursor control through innovative technologies.

Mr. S. Jeyapandi
Asst. Professor/Mech

Facial Movement and Voice Recognition Based Mouse Cursor Control

Congratulations to Mr. S. Jeyapandi, Assistant Professor in the Mechanical Department, and Mr. A. Essaki Muthu, Assistant Professor in the CSE Department, on the publication of their paper titled "Building Resilience in Shopping: Secure Shopping System for Pandemics Like Covid-19" in the Proceedings of the 4th International Conference on Smart Electronics and Communication, ICOSEC 2023. It's indeed a remarkable achievement that their work has been indexed in Scopus! This research represents a significant contribution to innovative solutions for secure shopping during pandemic situations like Covid-19, emphasizing the practical significance of their work.

Building Resilience in Shopping: Secure Shopping System for Pandemics Like Covid-19

Congratulations to Mrs. A. Valli, Assistant Professor in the S&H Department, Prof. S. Sundararajan, Professor in the Mechanical Department, and R Santhana Krishnan, Assistant Professor in the ECE Department, on the publication of their paper titled "Cutting Edge Ironing Technology: Smart Laundry Cart System" in the Proceedings of the 4th International Conference on Smart Electronics and Communication, ICOSEC 2023. It's indeed a remarkable achievement that their work has been indexed in Scopus! This research represents a significant contribution to innovative laundry technology, highlighting the practical significance of their work.

Dr. S. Sundararjan
Professor/Mech

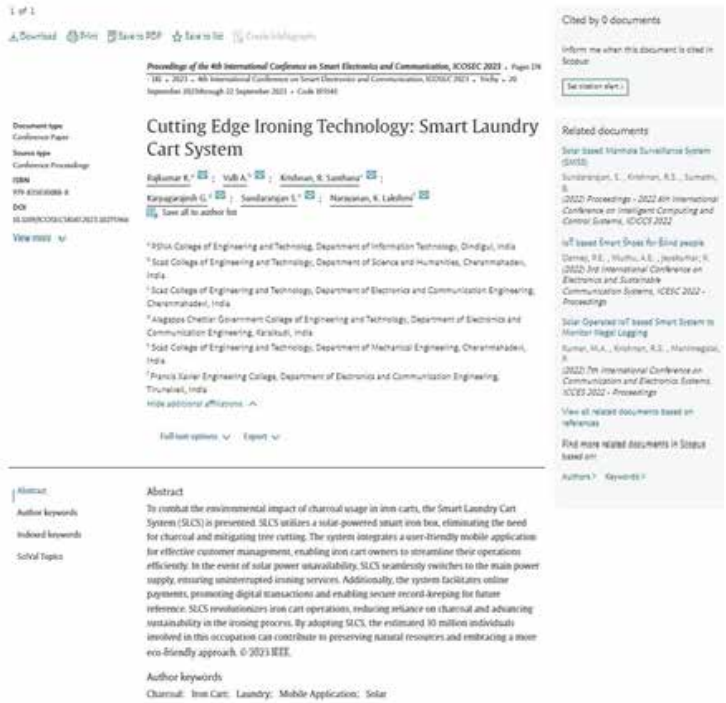
Mr. R. Santhana Krishnan
Asst. Professor/ECE

Mr. S. Jeyapandi
Asst. Professor/Mech

Mr. A. Essaki Muthu
Asst. Professor/CSE

Mr. A. Valli
Asst. Professor/Maths

Research and Developments



Cutting Edge Ironing Technology: Smart Laundry Cart System

Abstract

To combat the environmental impact of charcoal usage in iron carts, the Smart Laundry Cart System (SLCS) is presented. SLCS utilizes a solar-powered smart iron box, eliminating the need for charcoal and mitigating tree cutting. The system integrates a user-friendly mobile application for effective customer management, enabling iron cart owners to streamline their operations efficiently. In the event of solar power unavailability, SLCS seamlessly switches to the main power supply, ensuring uninterrupted ironing services. Additionally, the system facilitates online payments, promoting digital transactions and enabling secure record-keeping for future reference. SLCS revolutionizes iron cart operations, reducing reliance on charcoal and advancing sustainability in the ironing process. By adopting SLCS, the estimated 10 million individuals involved in this occupation can contribute to preserving natural resources and embracing a more eco-friendly approach. © 2023 IEEE.

Author keywords

Charcoal; Iron Cart; Laundry; Mobile Application; Solar

Congratulations to Dr. S. Sundararajan, Professor/Mech, Dr. X. ArogyaPresskila, Asso. Professor/CSE, and Mr. R Santhana Krishnan, Assistant Professor/ECE on the publication of their paper titled "Enhancing Sentiment Analysis of Twitter Data Using Recurrent Neural Networks with Attention Mechanism" in the Proceedings of the 4th International Conference on Smart Electronics and Communication, ICOSEC 2023. It's indeed a remarkable achievement that their work has been indexed in Scopus! This research contributes to the advancement of sentiment analysis using state-of-the-art techniques, showcasing their valuable contributions to the field.

Dr. S. Sundararjan
Professor/Mech

Mr. R. Santhana Krishnan
Asst. Professor/ECE

Dr. X. ArogyaPresskila
Assoc. Professor/CSE

Enhancing Sentiment Analysis of Twitter Data Using Recurrent Neural Networks with Attention Mechanism

Abstract

Sentiment analysis, the intricate task of discerning and classifying the myriad of sentiments conveyed within textual data, has captured substantial interest and intrigue, primarily driven by the pervasive utilization and influence of social media platforms. In this study, a novel approach to enhance sentiment analysis of Twitter data by employing Recurrent Neural Networks (RNNs) with an attention mechanism is proposed. The proposed model leverages the sequential nature of tweets and the attention mechanism to capture the inherent dependencies between words and highlight salient information. The RNN-based model on a large-scale dataset of annotated Twitter data, encompassing diverse sentiments is trained. The model effectively learns the contextual information and sentiment patterns, enabling accurate sentiment classification. A comprehensive set of tests were run to evaluate the effectiveness of this methodology, and the outcomes were meticulously compared to those of traditional machine learning algorithms and established deep learning models. The empirical findings demonstrate that proposed attention-based RNN model

Congratulations to R Santhana Krishnan, Assistant Professor in the ECE Department, on the publication of their paper titled "A Novel CNN-Based IoT System Architecture for Real-Time Detection and Prevention of Animal Intrusion in Farmland" in the Proceedings of the 4th International Conference on Smart Electronics and Communication, ICOSEC 2023. It's a remarkable achievement that their work has been indexed in Scopus! This research contributes to the development of innovative solutions for real-time animal intrusion detection in agriculture, showcasing the practical significance of their work.

Mr. R. Santhana Krishnan
Asst. Professor/ECE

A Novel CNN-Based IoT System Architecture for Real-Time Detection and Prevention of Animal Intrusion in Farmland

Abstract

Animal intrusion is a significant challenge for farmers, causing extensive crop damage, human injuries, and substantial financial losses. Traditional animal movement monitoring and surveillance methods alone are insufficient to provide a permanent solution. To solve this problem, a novel system architecture that combines the latest convolutional neural network (CNN) algorithm and Internet of Things (IoT) technology is proposed. Our proposed system architecture integrates various components, including a Raspberry Pi as a central processing unit, cloud storage for efficient data management, and a GSM module for instant alert generation. To train the CNN algorithm, a comprehensive and diverse Animal Dataset consisting of various animal species commonly found in farmland areas is curated. The dataset encompasses a wide range of annotated images, enabling the CNN algorithm to accurately identify and classify animals. The Raspberry Pi serves as the core of the system, responsible for real-time image processing and analysis. Utilizing the power of the CNN algorithm, the Raspberry Pi processes the captured images from strategically placed surveillance cameras. When an animal intrusion is detected, the system promptly generates an alert via the integrated GSM module, providing immediate notifications to farmers and relevant authorities. Furthermore, the system leverages cloud storage to store and manage the collected data, facilitating easy access and retrieval for analysis and system improvement. This cloud-based approach enables scalability, allowing the system to handle large amounts of data efficiently. By integrating the CNN algorithm, IoT.

Research and Developments

Congratulations to Dr. J AllwynKingslyGladston, Professor in the Mechanical Department, R Santhana Krishnan, Assistant Professor in the ECE Department, and Dr. S. Sundararajan, Professor in the Mechanical Department, on the publication of their paper titled "Connected Agriculture: Leveraging IoT to Revolutionize Farming Practices and Profitability" in the Proceedings of the 4th International Conference on Smart Electronics and Communication, ICOSEC 2023. Their research represents a significant step forward in the field of smart agriculture, highlighting the transformative potential of IoT in improving farming practices and enhancing profitability. The fact that their work has been indexed in Scopus underscores its academic excellence and real-world relevance, making it a commendable achievement.

Mr. R. Santhana Krishnan
Asst. Professor/ECE

Mr. R. Santhana Krishnan
Asst. Professor/ECE

Connected Agriculture: Leveraging IoT to Revolutionize Farming Practices and Profitability

Kingsly Gladston, J. Allwyn; Kalyanakumar P.; Rajkumar K.; Krishnan, R. Santhana; Niranjana R.; Sundararajan S.

Abstract

Food security, poverty reduction, and rural livelihood support are all greatly impacted by agriculture. To fight crop damage and water scarcity, a smart agricultural system built on the Internet of Things has been created. The system keeps an eye on the water and soil moisture levels and guards against unauthorized animal entry. Cell phones can be used by users to get real-time data. The water pump operates automatically on and off depending on criteria measured on the farmland. For the benefit of farmers and rural communities, the solution attempts to maximize irrigation, protect crops, and increase agricultural output. This smart farming system uses technology to give farmers and rural communities a dependable and effective tool that has a favorable effect on agricultural activity. A revolutionary solution that reduces risks and boosts productivity in the agricultural industry is offered through the use of IoT technology. The approach greatly enhances food security, promotes sustainable development in rural regions, and benefits farmers' well-being. © 2023 IEEE.

Author keywords

Agriculture; Farmers; Farming System; Internet of Things; Irrigation

Congratulations to Dr. A. Justin Diraviam, Principal, Dr. S. Sundararajan, Professor/Mech, Mr. R Santhana Krishnan, Assistant Professor/ECE and Mr. A. Essaki Muthu, Assistant Professor/CSE on the publication of their paper titled "Futuristic Banking: Streamlining ATM Transactions with Fingerprint and Contactless Authentication" in the Proceedings of the 4th International Conference on Smart Electronics and Communication, ICOSEC 2023. The publication of their paper on "Futuristic Banking: Streamlining ATM Transactions with Fingerprint and Contactless Authentication" is a significant contribution to the field of smart electronics and communication. This research offers innovative insights into the future of banking, particularly in enhancing ATM transactions through cutting-edge technologies like fingerprint and contactless authentication. Such advancements hold the potential to transform the way we interact with banking services, making them more secure and convenient. The recognition of their work by being indexed in Scopus underscores its importance and impact on the academic community.

Dr. A. Justin Diraviam
Principal

Mr. R. Santhana Krishnan
Asst. Professor/ECE

Dr. S. Sundararajan
Professor/Mech

Mr. A. Essaki Muthu
AP/CSE

Futuristic Banking: Streamlining ATM Transactions with Fingerprint and Contactless Authentication

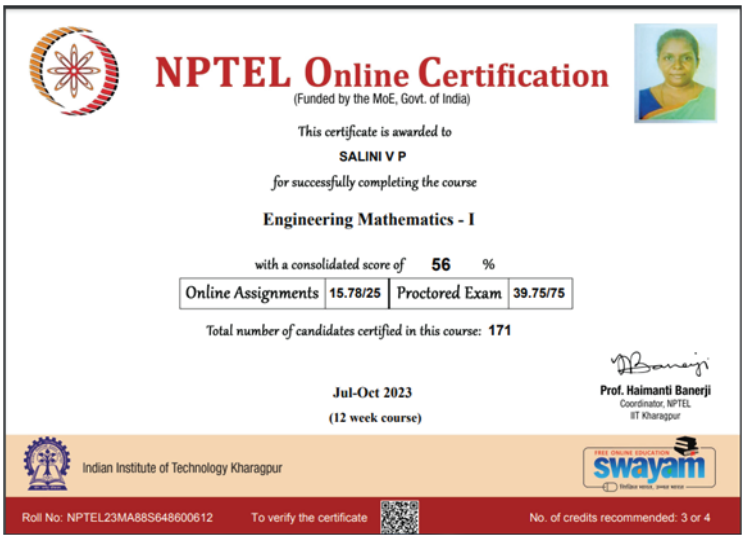
Research and Developments

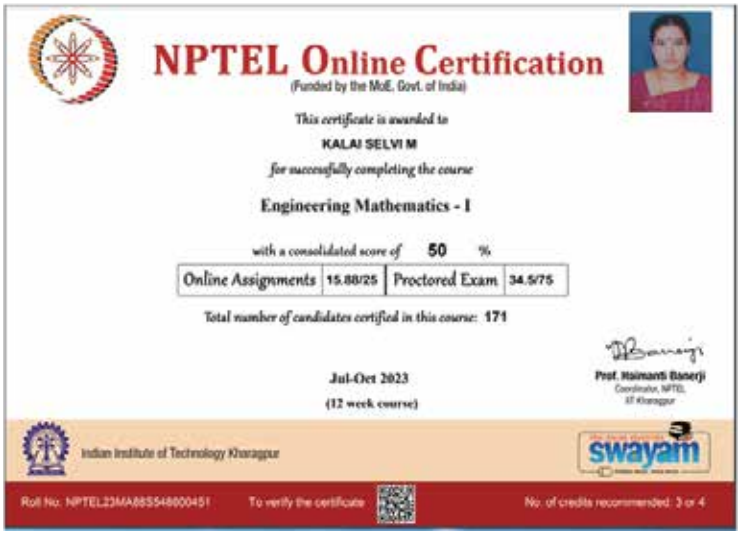
Hostel Day Celebration 2023

Mrs. V.P. Salini, Asst. Professor/Maths and Mrs. M. Kalaiselvi, Asst. Professor/Maths have successfully completed the course on "Mathematics I" organised by NPTEL-AICTE. Their participation is highly appreciated.

Mrs. V. P. Salini
Asst. Professor/Maths

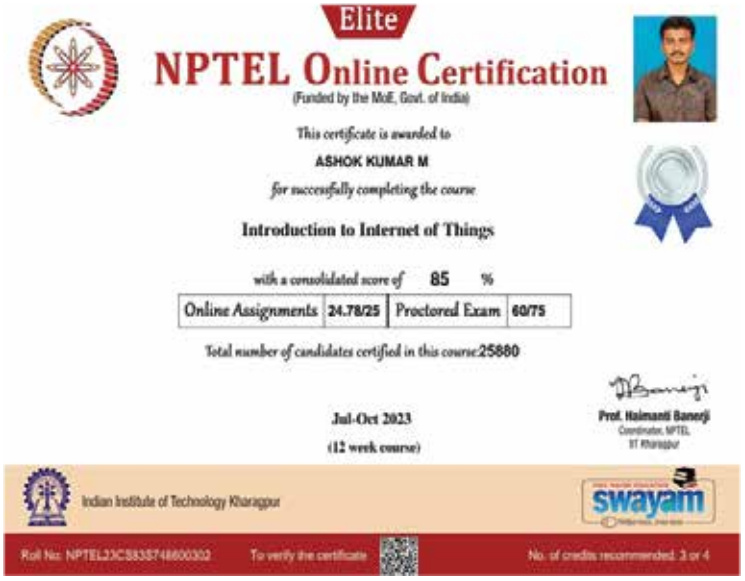
Mrs. M. Kalaiselvi
Asst. Professor / Maths





Mr. M. Ashok Kumar, Asst. Professor/ECE has successfully completed the course on "Introduction of Internet of Things" with consolidated score of 85% organised by NPTEL-AICTE. His participation is highly appreciated.

Mr. M. Ashok Kumar
Asst. Professor/ECE



Mr. J. Johnson, HOD/S&H has successfully completed the course on "Introduction of Internet of Things" with consolidated score of 82% organised by NPTEL-AICTE. His participation is highly appreciated.

Mr. J. Johnson
HOD/S&H

Research and Developments


Elite

NPTEL Online Certification

(Funded by the MoE, Govt. of India)

This certificate is awarded to

JOHNSON J

for successfully completing the course

Introduction to Internet of Things

with a consolidated score of 82 %

Online Assignments	24.56/25	Proctored Exam	57/75

Total number of candidates certified in this course:25880

Jul-Oct 2023

(12 week course)

Prof. Haimanti Banerji

Indian Institute of Technology Kharagpur

swayam

Mr. C. Antony Vasantha Kumar, Professor/-Mech has successfully completed the course on "Work System Design" with consolidated score of 96% organised by NPTEL-AICTE. His participation is highly appreciated.

Mr. C. Antony Vasantha Kumar
Professor/Mech


Elite

NPTEL Online Certification

(Funded by the MoE, Govt. of India)

This certificate is awarded to

C ANTONY VASANTHA KUMAR

for successfully completing the course

Work System Design

with a consolidated score of 96 %

Online Assignments	25/25	Proctored Exam	70.5/75

Total number of candidates certified in this course: 1099

Prof. Kaushik Ghosh

Jul-Oct 2023

(12 week course)

Prof. Ranjana Pathania,

Indian Institute of Technology Roorkee

swayam

Mr. C.R.T. Suria Prakash, Asst. Professor/Civil has successfully completed the course on "Municipal Solid Waste Management" with consolidated score of 69% organised by NPTEL-AICTE. His participation is highly appreciated.

Mr. C.R.T. Suria Prakash,
Asst. Professor/Civil


Elite

NPTEL Online Certification

(Funded by the MoE, Govt. of India)

This certificate is awarded to

SURIA PRAKASH C R T

for successfully completing the course

Municipal Solid Waste Management

with a consolidated score of 69 %

Online Assignments	24.56/25	Proctored Exam	44.25/75

Total number of candidates certified in this course: 2597

Jul-Oct 2023

(12 week course)

Prof. T. V. Bharat

Indian Institute of Technology Guwahati

swayam

Roll No: NPTEL23CE66584860824 To verify the certificate No. of credits recommended: 3 or 4


NPTEL-AICTE

Faculty Development Programme

(Funded by the MoE, Govt. of India)

This certificate is awarded to

SURIA PRAKASH C R T

for successfully completing the course

Municipal Solid Waste Management

with a consolidated score of 69 %

Prof. Andrew Thangaraj

NPTEL Coordinator

IIT Madras

(Jul-Oct 2023)

Roll No: NPTEL23CE66584860824 Duration of NPTEL course : 12 Weeks

Mr. V. Krishna Sankar, HOD/Civil has successfully completed the course on "Admixtures and Special Concrete" organised by NPTEL-AICTE. His participation is highly appreciated.

Mr. V. Krishna Sankar
HOD/Civil


NPTEL Online Certification

(Funded by the MoE, Govt. of India)

This certificate is awarded to

KRISHNA SANKAR V

for successfully completing the course

Admixtures and Special Concretes

with a consolidated score of 51 %

Online Assignments	18.75/25	Proctored Exam	32.12/75

Total number of candidates certified in this course: 465

Prof. Devendra Jalihal

Jul-Oct 2023

(12 week course)

Prof. Andrew Thangaraj

Indian Institute of Technology Madras

swayam

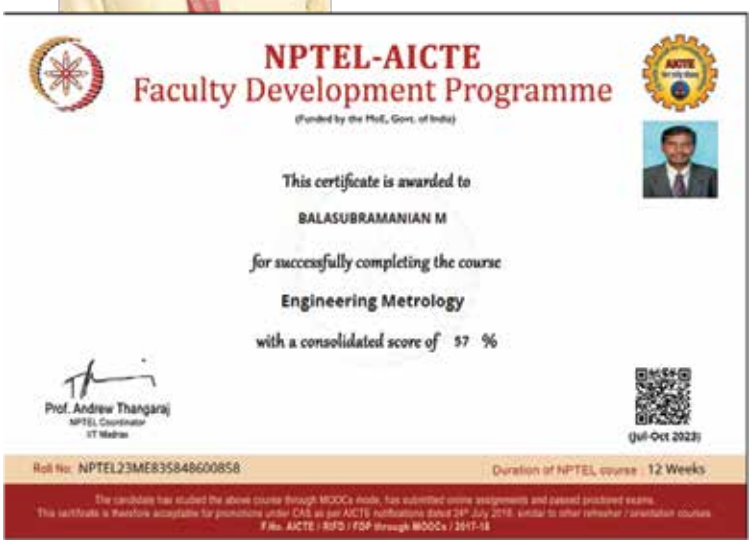
Research and Developments

Dr. M.M. Vijay, Asso. Professor/ECE has successfully completed the course on "Introduction to Internet of Things" organised by NPTEL-AICTE. His participation is highly appreciated.

Dr. M.M. Vijay
Asso. Professor/ECE

Mr. M. Balasubramanian, Asst. Professor/-Mech has successfully completed the course on "Engineering Metrology" organised by NPTEL-AICTE. His participation is highly appreciated.

Mr. M. Balasubramanian
Asst. Professor/Mech

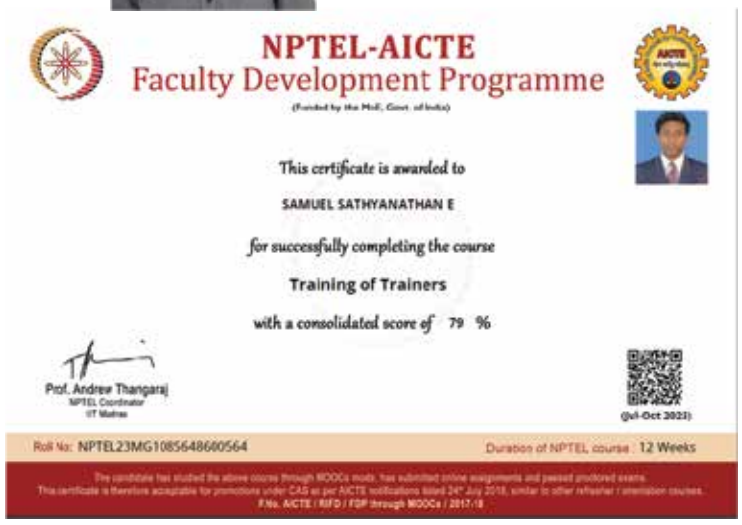


Mr. K. John Samuel Raj, Asst. Professor/ECE has successfully completed the course on "Introduction to Internet Things" with a consolidated score of 79% organised by NPTEL-AICTE. His participation is highly appreciated.

Mr. K. John Samuel Raj,
Asst. Professor/ECE

Mr. Samuel Sathyanathan, Asst. Professor/MBA has successfully completed the course on "Training and Trainers" with a consolidated score of 79% organised by NPTEL-AICTE. His participation is highly appreciated.

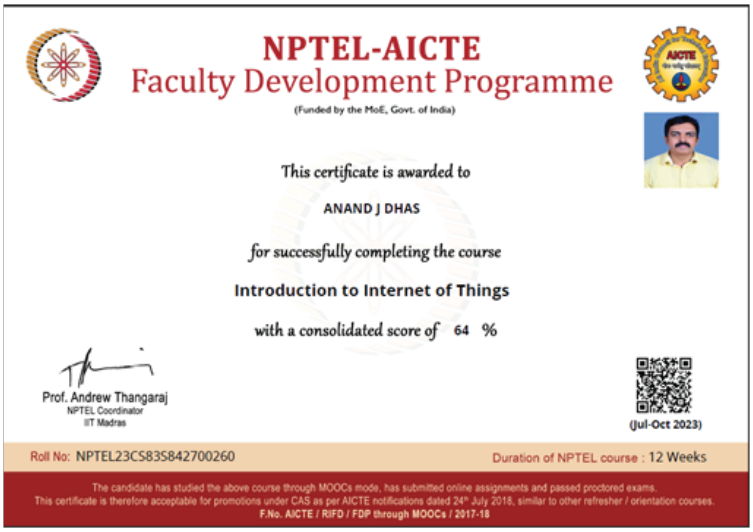
Mr. Samuel Sathyanathan,
Asst. Professor/MBA

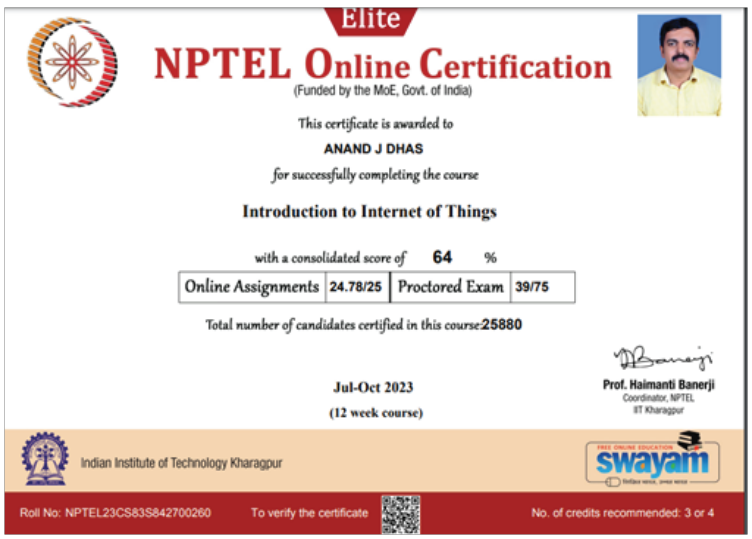


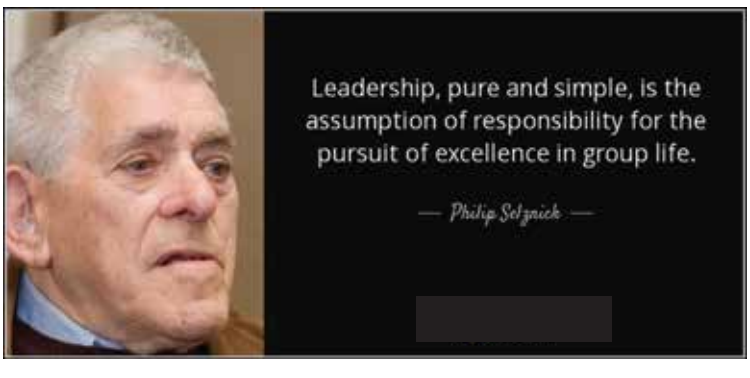
Research and Developments

Dr. Anand J Dhas, Asso. Professor/ECE has successfully completed the course on "Introduction to Internet of Things" with a consolidated score of 64% organised by NPTEL-AICTE. His participation is highly appreciated.

Dr. Anand J Dhas,
Asso. Professor/ECE







NSS Activity

Green Campus Initiatives Conducted by Environment Club

On 22nd November 2023 the green trend initiative event was organized by the Environment club of our college. The event was conducted in our campus on a motive to educate the students to protect the environment and nurture and be a part of sustainable development. The event started with an opening speech by our campus dignitaries consisting our Principal Dr. A. Justin Dhiraviam, Mr. R. Thambithurai General Manager SCAD Campus, Dr. John Kennady Admission Director SCAD Group, Mr. JeyaPandi Administrative officer, Dr. S. Sundararajan IQAC Director and Prof.Venketasubramanian M. Team Member. The event was the preceded by Dr. John Kennady who addressed the students about environmental degradation and the need to preserve the mothernature. As an initiative move towards this activity several trees and shrubs of our campus were labelled with name plates and identification. The event was attended by the NSS volunteers who participated in the labelling task. This event was conducted by the NSS coordinator Mr. John Sekar NSS Program Officer.

NSS Activity

Public Etiquette Awareness Programme

On the auspicious date of November 23, 2023, a meticulously planned and executed Public Etiquette Awareness Program unfolded at the precise hour of 1:30 PM. This thoughtfully organized event specifically catered to the first-year students, aiming to instil in them the essential principles of public etiquette.

The highlight of this enlightening session was the presence of Mrs. Devi, an esteemed Sub-Inspector renowned for her dedication and expertise, hailing from the distinguished locale of Cheranmahadevi. As the guest speaker, Mrs. Devi brought not only her official insights but also a wealth of knowledge and experience garnered from her illustrious career.

The event, graced by Mrs. Devi's authoritative presence, transcended mere instruction. It became a valuable and enriching experience for all those fortunate enough to be in attendance. The students were not only exposed to the theoretical aspects of public etiquette but also had the privilege of learning from real-world examples and practical wisdom shared by a seasoned professional. Mrs. Devi's engaging discourse undoubtedly left an indelible mark on the minds of the attendees, shaping their understanding of public conduct and leaving them better equipped for the challenges that lay ahead. This session was arranged by the Administrative officer Mr. Jeyapandi and was conducted in the presence of Principal Dr. A. Justin Diraviam and Dr. S. Sundararajan IQC Director who lead the program.

Voters Awareness Programme

Highlighting a future-oriented perspective and recognizing the pivotal role of the younger generation in shaping democracy, Mrs. Vasanthi, the Election Deputy Thasildhar of Cheranmahadevi, teamed up with Rajkumar, the Revenue Inspector. Their collaboration, alongside Dr. S. Sundararajan, Director of the Internal Quality Assurance Cell (IQAC), resulted in a compelling awareness session on the NextGen Democracy Initiative.

To enhance accessibility and engagement, a Voters Helpline app was introduced to all first-year students. This technological addition aimed to provide valuable resources and support, ensuring that the youth could navigate the democratic landscape with ease. Dr. S. Sundararajan, in his capacity as the Director of IQAC, added an academic perspective, enriching the awareness program with valuable insights into fostering informed and engaged citizenship.

Fit India - AICTE

Sports Activities

AICTE, Fit India, Ministry of Youth Affairs and Sports, it has been decided to celebrate Fit India Week between 15-11-2023 to 15-12-2023. During that time period, educational institutions can choose a week at their convenience and organize various sports and fitness activities for 4 to 6 days. The first day, our college Department of Physical Education was organised a Football Target Kick for boys and Medicine Ball Throw for Girls on 17-11-2023. Around 60 students participated in this games. This sports coordinated by Mr. G. Arumuga Nainar, Mr. M. Oscar, Physical Directors.

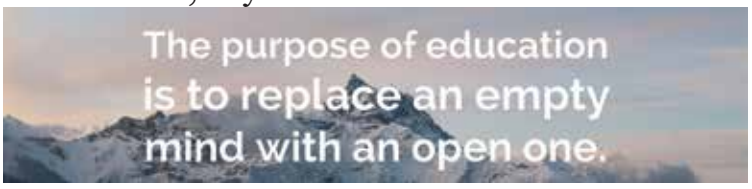
Department of Physical Education

Day 2

AICTE, Fit India, Ministry of Youth Affairs and Sports, it has been decided to celebrate Fit India Week between 15-11-2023 to 15-12-2023. During that time period, educational institutions can choose a week at their convenience and organize various sports and fitness activities for 4 to 6 days. The second day, our college Department of Physical Education was organised a Terefit Challenge for Boys and Target Wickets for Girls on 20-11-2023. Around 47 students participated in this games. This sports event wascoordinated by Mr. G. ArumugaNainar, Mr. M. Oscar, Physical Directors.

Day 3

AICTE, Fit India, Ministry of Youth Affairs and Sports, it has been decided to celebrate Fit India Week between 15-11-2023 to 15-12-2023. During this period, educational institutions can choose a week at their convenience and organize various sports and fitness activities for 4 to 6 days. In these third days, The Department of Physical Education of our college has organised a Leg Cricket for Boys and Dogdeball for Girls on 21-11-2023. Around 60 students participated in this games. These sports events were coordinated by Mr. G. ArumugaNainar, Mr. M. Oscar, Physical Directors.



Day 4

AICTE, Fit India, Ministry of Youth Affairs and Sports, has been decided to celebrate Fit India Week between 15-11-2023 to 15-12-2023. During this period, educational institutions can choose a week of their convenience and organize various sports and fitness activities for 4 to 6 days. In these four days, The Department of Physical Education of our college has organized a SepakTakraw for Boys and Modified Golf for Girls on 22-11-2023. Around 61 students participated in this games. These sports events were coordinated by Mr. G. ArumugaNainar, Mr. M. Oscar, Physical Directors.