

SKCET

Buzz



25th June - 1st July 2022



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INSTITUTION ACCOLADES



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SKCET | BHUMI CAMPUS AWARDS 2022



SKCET has been felicitated with a **Certificate of Appreciation** by **Bhumi Campus Awards 2022**. This prestigious recognition is a credit to our efforts towards voluntary engagement in various social initiatives for socially responsible colleges which aims in building the future change makers of this country.

The unique disciplined practices of SKCET have paved way for this exemplary success!!



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HACKATHON ACCOLADES



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CSBS | HACKATHON 3.0



First year student team from the Department of CSBS participated in Hackathon 3.0 and has won 2nd Runner up award with a cash reward of Rs.50,000/. It is an offline 24 hours Hackathon organized by **iNeuron.ai**, Bangalore on 25th and 26th of June. The event was open to all and the first two prizes were won by IT professionals. The team was mentored by **Dr.S.Balakrishnan, HoD, CSBS.**

Team Members:

- Vishal C - I CSBS
- Sashidharan - I CSBS
- Christina Mercy Mathew- I CSBS

CSE|SMART INDIA HACKATHON 2022–PRE SCREENING RESULT



4	31986	31056 - Insomniacs	ASHWIN K BIJU	79934 - SRI KRISHNA COLLEGE OF ENGINEERING AND TECHNOLOGY	TAMIL NADU	COIMBATORE	SELECTED
3	32044	31505 - Comrades Coders	Rakshapriyan V P	79934 - SRI KRISHNA COLLEGE OF ENGINEERING AND TECHNOLOGY	TAMIL NADU	COIMBATORE	SELECTED
4	14226	32314 - Cardinality	SHAMETHA K G	79934 - SRI KRISHNA COLLEGE OF ENGINEERING AND TECHNOLOGY	TAMIL NADU	COIMBATORE	SELECTED
6	32812	31082 - Golden Dawn	MONISH KUMAR A	79934 - SRI KRISHNA COLLEGE OF ENGINEERING AND TECHNOLOGY	TAMIL NADU	COIMBATORE	SELECTED



Four student teams from the Department of **CSE** have been shortlisted to participate in **SIH 2022 Grand Finale**.

The details of the shortlisted teams are as follows:

Team Name	Team Members	Mentor
Cardinality	Prithika Andrea Angelina. F- I CSE Aswathy -II CSE Shametha-III CSE Kumaraguru-III CSE Samuel Wycliffue-III CSE	Ms.A.Priya AP/CSE
Insomniacs	AshwinBiju -II CSE Harini-II CSE Jason jose-II CSE Johansolivia -II CSE Devadharshana -II CSE Katyayini -II CSE	
Comrades Coders	Rakhsapriyan-I CSE Raj Narayanan -I CSE Rashia -I CSE Priyanga -I CSE Madhupriya -I CSE	
Golden Dawn	Monish Kumar -I CSE PrajwalPandi - I CSE Niranjaneer -I CSE Prajeet Kumar I CSE	





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STUDENT PROGRESSION



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CSBS| IFERP - INNOVATIVE PROJECT SEED FUNDING SCHEME



Student team from the Department of CSBS has presented their idea “A2Z Agri” in the second round of virtual presentation for the "IFERP - Innovative Project Seed Funding Scheme" on 26.06.2022. the team was mentored by Dr.S.Balakrishnan,HoD, CSBS.

Team Members:

- Vishal C- I-CSBS
- Sashidharan - I-CSBS
- Christina Mercy Mathew - I-CSBS
- Rathi Raghuram – I M. Tech CSE



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IT | AI - SYMPOSIUM - GO AI FOR SOCIAL GOOD



Second year student team from the Department of IT comprising of **Vasanth Kumar G, Sri Vatshan V, Sri Dharshini S and Rithani Rajyashree V** participated in "AI - Symposium - Go AI for Social Good" held on 11th and 12th of June 2022 at Bangalore. The organizing committee of the event appreciated the team for their valuable contribution. The team was mentored by **Dr. U. Barakkath Nisha**, and **Ms. Sindhu**, faculty members of IT Department.



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EVENTS



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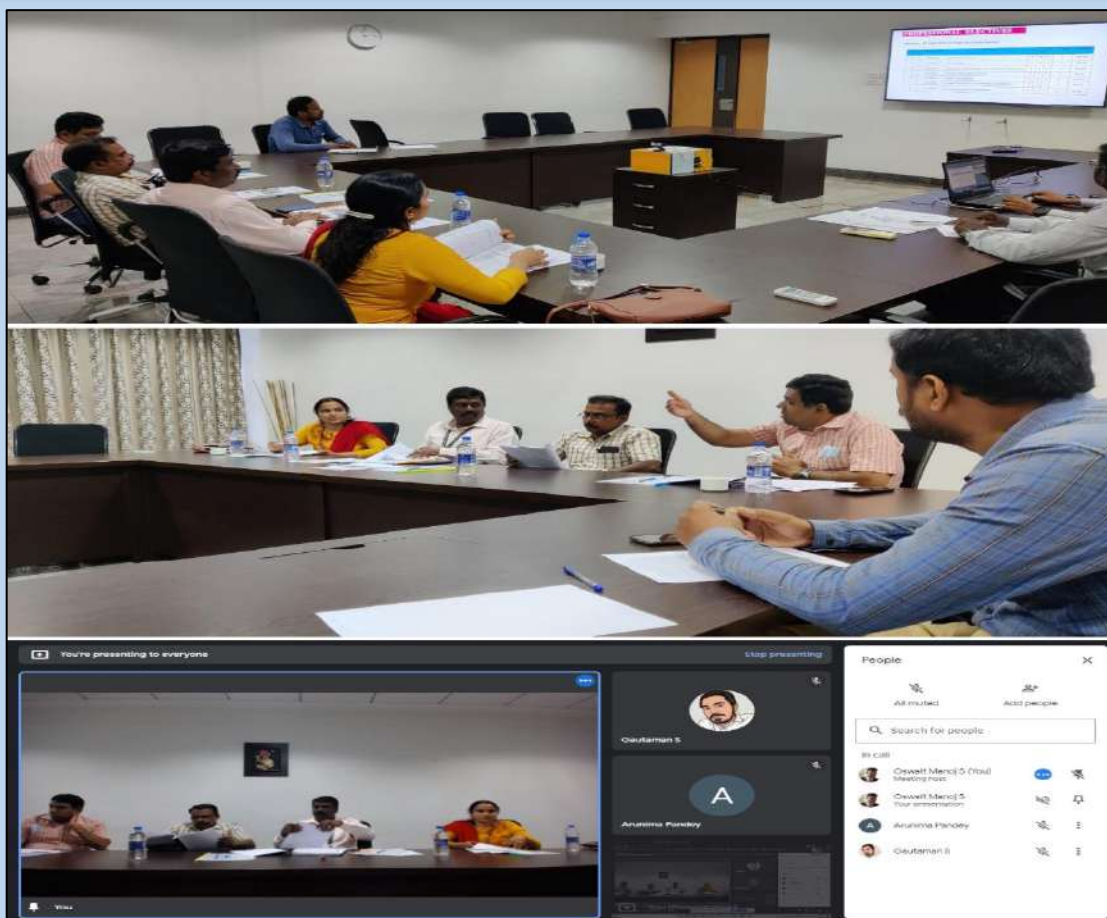


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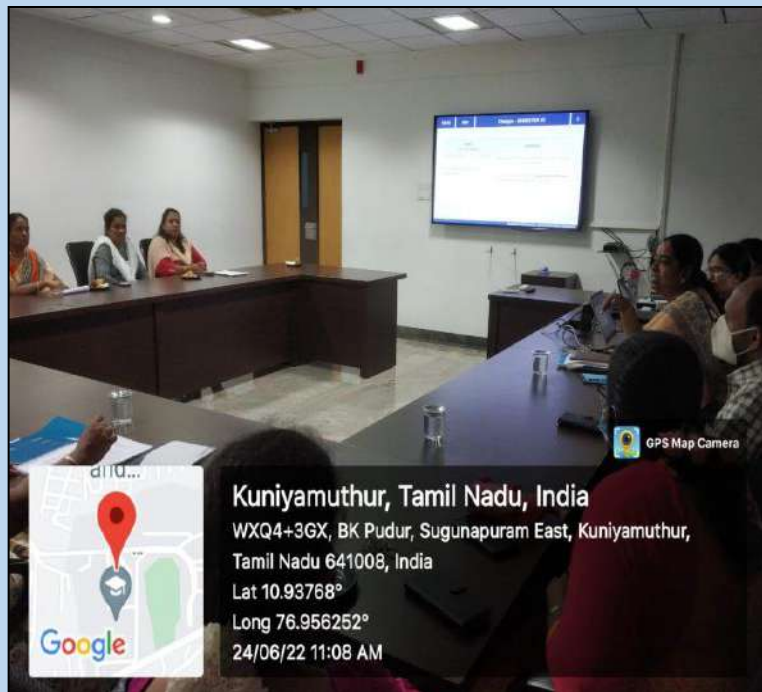
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CSBS | BOARD OF STUDIES MEETING



Department of **Computer Science and Business Systems** conducted its **5th Board of Studies meeting** on 27.06.2022. **Dr. S. Balakrishnan**, Professor and Head, **CSBS** convened the meeting. The meeting included presentations on curriculum changes, credit distribution, and emerging elective courses in 2022 Regulation. External expert members, **Dr.B.Thanasekhar**, Associate Professor, Department of Computer Technology, MIT, Chennai, **Dr.L.Ramanathan**, Associate Professor, School of Computer Science and Engineering, Vellore Institute of Technology, Vellore, **Dr.N.M.Dhanya**, Assistant Professor, Department of Computer Science and Engineering, Amritha Vishwa Vidyapeetham, Coimbatore, **Ms.Arunima Pandey**, Manager, Tata Consultancy Services, Pune, and **Mr.Gautaman Sarangan**, Senior Software Engineer, TCS, Australia shared their significant expertise, provided useful suggestions, and approved the courses.

ECE | BOARD OF STUDIES MEETING



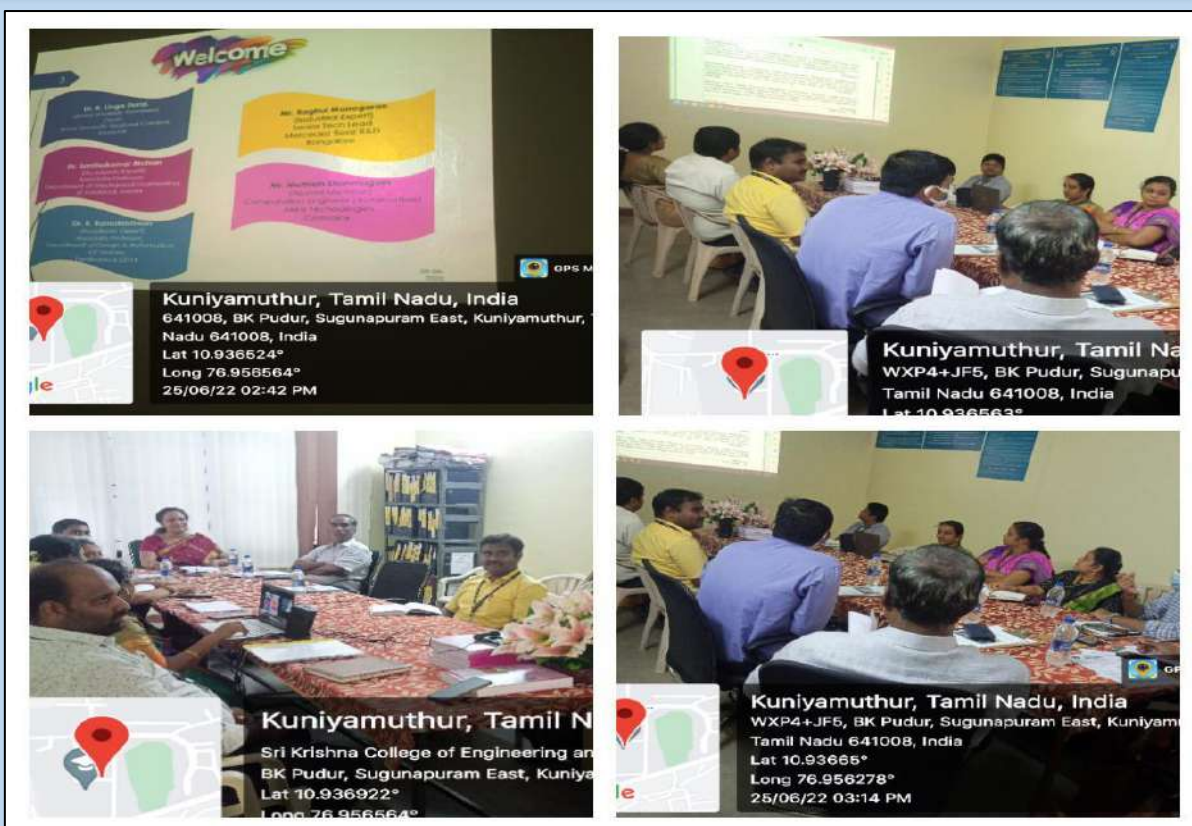
Department of **ECE** conducted its **16th Board of Studies Meeting** on 24.06.2022. The meeting was convened by **Dr. S. Sophia**, Head of the Department along with external experts **Dr. D.Malathi**, Professor, Anna University, **Dr. M. Nirmala Devi**, Vice Chairperson, Amirta Vishwa Vidhyapeetham, **Dr. M. Arun**, Associate Professor and Head, Department of Embedded Technologies, VIT University, **Mr. Vishnu Prasath**, Project Manager, Soliton Technologies Pvt Ltd and **Mr. Kathirvel**, Functional Safety Engineer, Bosch Global Technologies. The faculty members of ECE department were also present.

EEE | BOARD OF STUDIES MEETING



15th Board of Studies Meeting was organized by the Department of **Electrical and Electronics Engineering** on 25.06.2022 to discuss the Curriculum and Syllabi of R2022, Syllabi of 6th semester, Emerging Electives of R2020 and Ratification of 3rd and 4th Semester syllabus for 2021-25 batch. The meeting was convened by **Dr. K. C. Ramya**, Professor and Head, Department of **EEE**. Anna University nominee **Dr. B. Karunamoorthy**, Associate Professor, Department of **EEE**, Kumaraguru College of Technology, Coimbatore, The Academic Experts **Dr.K.Udhayakumar**, Professor, Department of **EEE**, Anna University, Chennai, and **Dr. S. Moorthi**, Associate Professor, Department of **EEE**, National Institute of Technology, Tiruchirappalli, Industry Experts **Mr.G.Arun Prakash**, Electricals and Project Engineer, Bradken, Coimbatore and Alumni **Mr.D.Pradeep Kumar**, Project Lead, Philips Healthcare, Bengaluru were the members of the meeting. The board members shared their valuable suggestions. Faculty members of **EEE** department were also present during the meeting.

MCT | BOARD OF STUDIES MEETING



Department of Mechatronics Engineering conducted 13th Board of Studies meeting on 25.06.2022 for the students admitted under the Regulation 2020 and 2022. The meeting was convened by **Dr.M.Lydia**, Professor and Head of the Department along with the external experts **Dr. K. Linga Durai**, Dean, Anna University Regional Campus, Madurai, **Dr.Santhakumar Mohan**, Associate Professor, Department of Mechanical Engineering IIT Palakkad, **Dr.R.Ramakrishnan**, Associate Professor, Department of Design and Automation, VIT, Vellore and the industrial expert **Mr. Raghul Manogaran**, Senior Tech Lead, Mercedes Benz, Research and Development, Bangalore. The members pooled in their vast experience and technical knowledge to fine-tune the syllabi in order to improve the students' skills and equip them with the latest technical know-how.

MECH | BOARD OF STUDIES MEETING



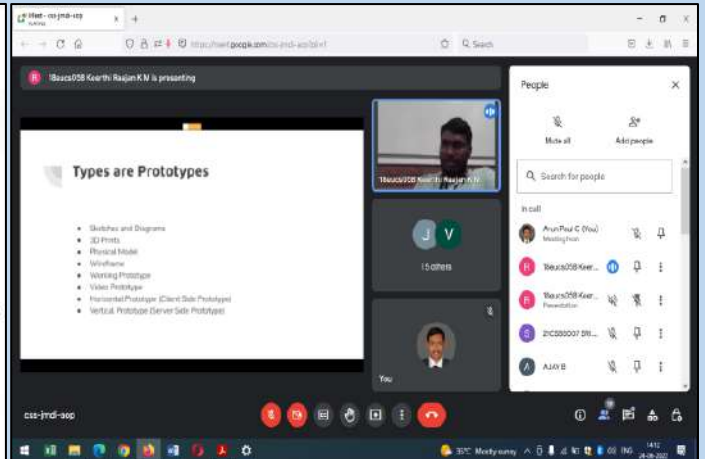
Dr.P.AshokaVarthanan, HoD, **Mechanical Engineering** convened **14th Board of Studies Meeting** on 25.06.2022. **Dr. K. LingaDurai**, Professor and Dean, Mechanical Engineering, Anna University regional campus, Madurai, **Dr. S. Venkachalapathy**, Professor, Mechanical Engineering, NIT Trichy, **Dr. S. Denis Ashok**, Professor, Department of Design and Automation, VIT, Vellore, **Mr. R. Purushothaman**, Head of Engineering, Visteon Corporation, Coimbatore, **Mr. N. Sudharsanan**, Manager, New Product Development, Larson & Toubro Ltd, Coimbatore prominent alumnus of the department were the members of the meeting. The expert members shared their valuable inputs to improve the quality of the syllabus and approved the syllabus. Faculty members and Domain heads of the Mechanical Engineering Department were also present during the meeting.

S&H | ALUMNI INTERACTION



Department of Science and Humanities organized an **Alumni Interactive Session** for the **First year BE / B.Tech** students at Convention Centre on 25th June, 2022. **Ms. Preethi S** and **Mr. Yogeshwaran B K** were the alumni resource person from the Department of **Computer Science Engineering** and delivered an expert lecture on career planning, moving ahead to face corporate challenges and skill sets required for the chosen team. The session elaborated on cultivating a trustworthy professional reputation and motivated the students to pursue a more fulfilling career.

S&H | WEBINAR ON INSTANT PROTOTYPES: UNIQUE IDEAS FOR STARTUP COMPANIES



Department of Science and Humanities organized a webinar on **Instant Prototypes: Unique Ideas for Startup Companies** for the **First year B.Tech CSBS** students on 24th June, 2022. The objective of this webinar was to educate the students in identifying worthy ideas at early stage to work on and converting those worthy ideas into fundable startup ventures at the later stage.

S&H | EXTENDED HOUR ACTIVITY CREATIVE CLUB



Creative Club of SHA conducted **Picto Narration** for the **First year BE/B.TECH** students on 24th June, 2022. The event aimed to evoke students' emotion and enhance their understanding to expose the truth or instill a sense of hope.

S&H | GUEST LECTURE ON DIGITAL INNOVATIONS OF VIRTUSA



SRI KRISHNA COLLEGE OF ENGINEERING AND TECHNOLOGY
AN AUTONOMOUS INSTITUTION | AFFILIATED TO ANNA UNIVERSITY | ACCREDITED BY NAAC WITH 'A' GRADE
ACCREDITED BY NBA (CSE, ECE, IT, EEE, CIVIL, MECH & MCT)
KUNIAMUTHUR, COIMBATORE - 641 008



Department of Science and Humanities

INVITES YOU ALL TO JOIN THE GUEST LECTURE ON
"DIGITAL INNOVATIONS OF VIRTUSA"

RESOURCE PERSON
Mr. S. Rajkumar
Associate Director of Technology
Virtusa, Chennai.

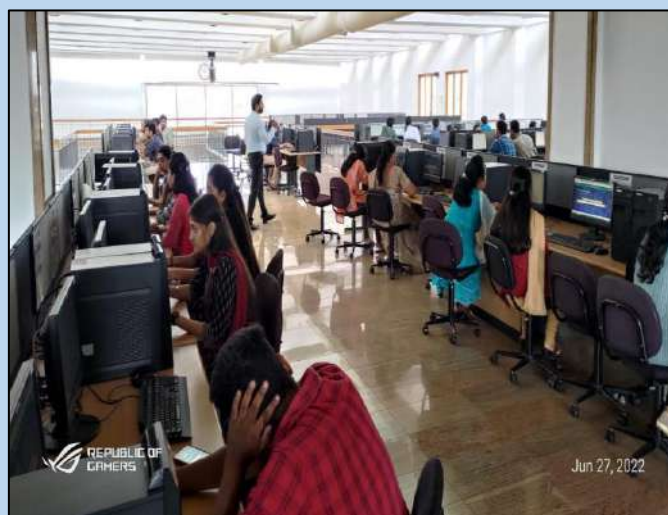
**22.06.2022 @10.00 AM**
Venue: BS03 – Seminar Hall





Department of Science and Humanities organized a Guest Lecture on “**Digital Innovations of Virtusa**” for the **First year M.Tech CSE** students on 22nd June 2022. **Mr.Rajkumar**, Associate Director of Virtusa was the guest of the day. The session gave an insight on the field of Virtusa and how to apply their understanding in real world scenario. It also briefed the high-level overview of the patterns and practices of Virtusa.

SOM | HANDS ON PRACTICE ON PROQUEST ONLINE JOURNAL DATABASE



First year students from **School of Management** along with the faculty members participated in a Hands on Practice program on ‘**Proquest Online Journal Database**’ organised by **Vankatram Learning Centre** in association with training division of Proquest Databases, Delhi on 27.06.2022. **Dr. A. Fazlur Rahman**, Librarian, Vankatram Learning Centre and **Mr.Srijith. S**, Training & Consulting Partner, Proquest, Bangalore gave an exposure to the students on the rich repository of databases and the accessing process inside the campus and also remote access.



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TRAINING AND PLACEMENT



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PLACEMENT|TESTIMONIAL BY PLACED



RANJITH D, IT (2021 Batch)

COVIAM

My favourite element of SKCET is its faculty members and learning resources. Being knowledgeable, inspiring, and approachable, my tutors provided students with much guidance and mind-opening perspectives. Their dedication to education helped us develop academic interests and grow intellectually. I was able to enjoy all my classes and I feel better about having to present in front of the class because I have great and supportive faculty members. Being involved in college activities also helped me to create some meaningful memories at SKCET and connect me with a lot of people. My experience at SKCET has helped me grow in lot of ways and now I am excited to look for new challenges in a new place while pursuing my dreams. I am very much grateful to my parents for choosing SKCET. Thanks to our Principal Madam and entire SKCET faculty team.

PLACEMENT|TESTIMONIAL BY PLACED



ARJUN T, CSE (2021 Batch),

LTI

Sri Krishna Institutions has provided me with a great environment and wonderful opportunity to learn and excel in academics as well as extracurricular activities. Method of teaching and the curriculum here made me secure a place in the corporate world. I have found the campus facilities to be excellent here. My sincere thanks to the Principal Madam, Advisor, Professors and Placement team who made my college life a memorable one. I am lucky to be a part of this great institution.



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RESEARCH AND DEVELOPMENT



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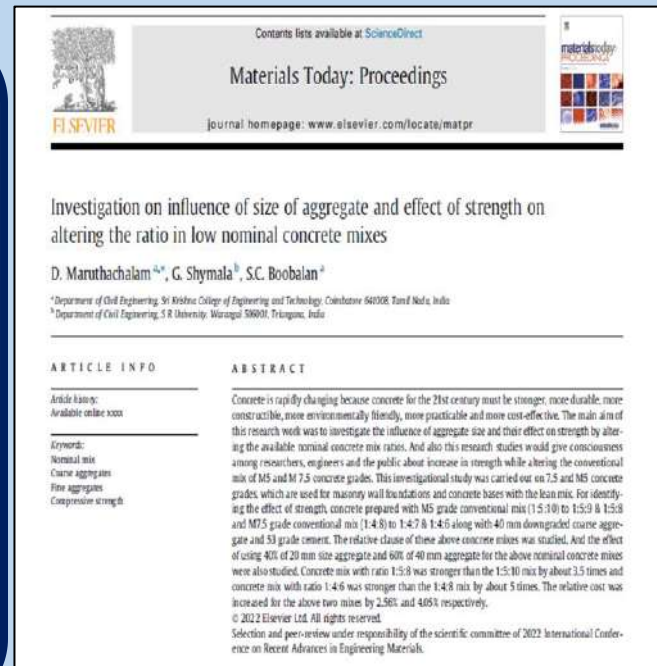
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R & D | PAPER PUBLICATION | CIVIL

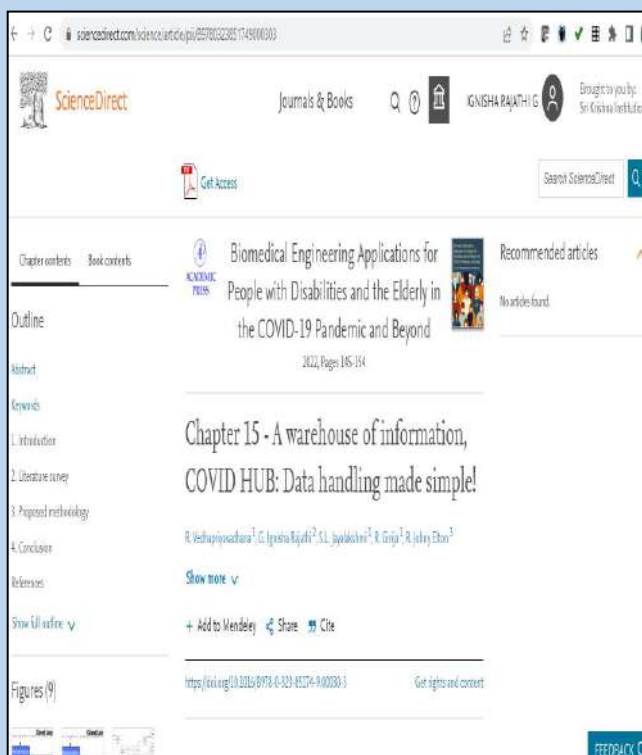
Dr. Maruthachalam, HoD, Civil Engineering along with **Mr. S.C. Boobalan, Assistant Professor, Department of Civil Engineering** have published a Research Article titled **“Investigation on influence of size of aggregate and effect of strength on altering the ratio in low nominal concrete mixes”** in **Materials Today: Proceedings**.



R & D | BOOK CHAPTER PUBLICATION | CSBS

Dr. G. Ignisha Rajathi, Associate Professor, Department of Computer Science and Business Systems has published a Book Chapter titled **“A warehouse of information, COVID HUB: Data handling made simple!”** in the Book **“Science Direct - Biomedical Engineering Applications for People with Disabilities and the Elderly in the COVID-19 Pandemic and Beyond”** on 24.06.2022. It is Scopus Indexed publication.

DOI: <https://doi.org/10.1016/B978-0-323-85174-9.00030-3>



R & D | PAPER PUBLICATION | ECE

Ensure Your Safety with Automatic Thermo-Checker
 Publisher: IEEE | Cite This | PDF
 Emayashri G ; Harini R ; Abirami S V ; Benedict Tephila | All Authors

Abstract:
 In the late December 2019, a new virus named corona virus which bewildered the world for a year. This novel coronavirus created a huge pandemic outbreak and expanded globally. The infectious virus spread from person to person through the respiratory routes of an infected person. As we all know that prevention is better than cure, we must identify the infected person first so that we can reduce the spread. It is advised to sanitize our hands often and keep our surroundings hygienic. In this pandemic situation, we prefer health and hygiene as the first and foremost way to save ourselves from this virus. And the world requires everything to be automated, so as a result our project provides automatic safety and also avoids in public places. Since this COVID-19 threat continues to the second wave we have to be more cautious and we cannot also give excuses to our work. In this inexorable situation, the only challenge is to continue our studies and work with more safety precautions and most importantly "No Physical Contact" must be ensured wherever we go. We all know that prevention is better than cure! Since mankind survived through various challenges from the early stages, the current pandemic situation is more threatening. We all are cautious about our health and personal hygiene. The aim of our project is based on attaining safety one step above in public places. It is necessary to be aware of sanitizing hands often. Since this covid19 threat continues for nearly a year, we could not keep calm and give excuses to our work. In this inevitable situation, the real challenge is how much we are conscious of our safety precautions about the diseases. We know that "No physical contact" is the perfect slogan for the situation. The main objective is to ensure personal health wherever we go.

An IoT-based Dam Water Level Monitoring and Alerting System
 Publisher: IEEE | Cite This | PDF
 R Senthil Ganesh ; Sasipriya S ; Gowtham Balaji M ; Ashok Karthi G ; Gokul Dharan S | All Authors

Abstract:
 Dam Water management (DAM) plays a significant role in both water scarcity and overflow scenarios. It is essential to construct a monitoring system based on current systems that permit the use of advanced sensor networks. The primary objective of this project work is to use an IoT-based dam water management system for agriculture and protect the people against flooding when achieving a certain level in the dam. The different sensors are used in this project work to monitor the overall dam and major pipeline every twenty-four hours. The WSN communicate with one another and send information to a gateway. The general storage space "Cloud" saves and transmits data to the spectator in real-time. Hence, the dam controller obtains data from the environment and calculates the amount of water needed. The quantity of water needed will vary based on the type of crop grown in that agricultural area. The simulation results prove that the proposed IoT-DWM achieves better results, saves a significant amount of water, and reduces water scarcity.

Novel Epileptic Detection System using Portable EMG-based Assistance
 Publisher: IEEE | Cite This | PDF
 C. Bagavathi ; Suvitha M ; Swathi M Nair ; Sruthi R | All Authors

Abstract:
 The unpredictability of seizures creates stress and disability for affected people and caregivers. If a seizure can be reliably detected, then the patient's caregiver or the nursing staff can be warned. It may help prevent any injury or death. The purpose of this project is to develop a cost-effective, wearable, and portable device that can detect seizures and alert patients and their families about the detection of any motor activity for a particular seizure. Unlike other seizure detection devices which uses EEG and ECG modules which make it complicated and uncomfortable for the patients to wear, this proposed model is designed to be less complicated and as an easily manageable device with the help of EMG module and sensors to get proper and accurate readings and it facilitates continuous monitoring of epilepsy patients without interrupting daily activities.

Following faculty members and students from the Department of ECE have presented and published papers in the 2022 International Conference on Applied Artificial Intelligence and Computing (ICAAIC). It is a Scopus Indexed IEEE Conference.

Name of the Authors	Title of the Paper
Ms Benedict Tephila M, Emayashri G; Harini R; Abirami S V	Ensure your Safety with Automatic Thermo-Checker.
Dr R Senthil Ganesh; Sasipriya S; GowthamBalaji M; Ashok Karthi G, GokulDharan S	An IoT-based Dam Water Level Monitoring and Alerting System.
Ms C. Bagavathi; Suvitha M; Swathi M Nair; Sruthi R	Novel Epileptic Detection System using Portable EMG-based Assistance

MECH | ARTICLE PUBLICATION IN SCOPUS INDEXED JOURNAL

Forces in Mechanics 8 (2022) 100107

Contents lists available at ScienceDirect

Forces in Mechanics

ELSEVIER journal homepage: www.elsevier.com/locate/forces-in-mechanics

FORCES IN MECHANICS

Investigating the Effect of PWHT on microstructural features and fatigue crack growth behavior of friction stir welded AA2024-T6 aluminum alloy joints

C. Rajendran^{a,*}, M. Vinoth Kumar^b, Tushar Sonar^c, K. Mallieswaran^d

^a Sri Krishna College of Engineering and Technology, Coimbatore, Tamil Nadu, India 641006
^b Hindustan Institute of Technology and Science, Chennai, Tamil Nadu, India 605103
^c G. S. Mankal's Maharashtra Institute of Technology Aurangabad, Maharashtra State, India 431010
^d SK College of Engineering and Technology, Coimbatore, Tamil Nadu, India 641002

ARTICLE INFO ABSTRACT

Keywords:
 AA2024-T6 aluminum alloy
 Friction stir welding
 Fatigue crack growth rate
 Microstructure

Friction stir welding (FSW) was employed to join 10 mm thick AA2024-T6 aluminum alloy plates to overcome the fusion welding related problems such as grain coarsening in fusion zone, heat affected zone (HAZ) softening, lower joint efficiency and premature joint failure. The center cracked test (CCT) specimens were used to evaluate the fatigue crack growth rate of the welded joints. The microstructural features of joint were characterized using optical microscopy (OM), scanning electron microscopy (SEM) and transmission electron microscopy (TEM). The fractured surfaces of CCT specimens were analyzed using scanning electron microscopy. Results showed that the FSW joints exhibit lower fatigue strength than the parent metal due to the dissolution of second phase strengthening precipitates. The post weld heat treatment (PWHT) specifically solution treatment (ST), artificial aging (AA), solution treatment and aging (STA) were employed to improve the fatigue properties of FSW joints. It was observed that the STA treated FSW joints exhibit higher fatigue life than the ST and AA treated joints. It is attributed to the precipitation of second phase strengthening precipitates in welded joint after STA.

Dr. C. Rajendran, Associate Professor, Mechanical Engineering has published a Scientific Research Article titled 'Investigating the Effect of PWHT on microstructural features and fatigue crack growth behavior of friction stir welded AA2024-T6 aluminum alloy joints' in Forces in Mechanics - An Elsevier Publications. It is a Scopus Indexed Journal.

WORD OF THE WEEK

Stoicism

The quality of experiencing pain or trouble without complaining or showing your emotions. *(Noun)*

- He endured the pain of his wounds with great **stoicism**.
- She endured his criticism with her usual **stoicism**.



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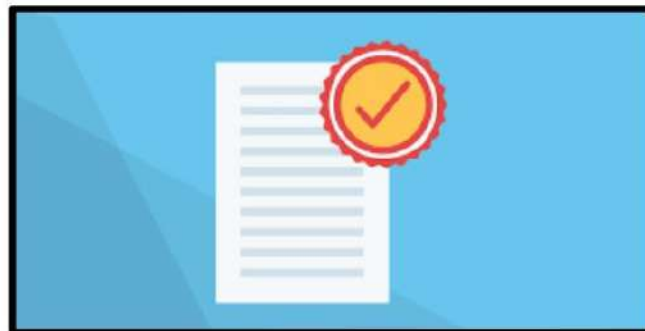


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CSBS | HACKATHON PARTICIPATION

Dr. S. Balakrishnan, Professor and Head, Department of **Computer Science and Business Systems** has participated in Symposium and Hackathon “**AI for Social Good**” jointly organised by C-DAC, Bangalore and IEEE Bangalore section held on 11-12 June 2022.



EEE| RECENT TRENDS IN ELECTRIC VEHICLES AND SMART GRID WITH RENEWABLE ENERGY TECHNOLOGIES FOR SUSTAINABLE DEVELOPMENT



Dr.S.Sivaranjani and **Ms.T.Malini** faculty members of **EEE** Department have participated in the Five Days STTP on “**Recent Trends in Electric Vehicles and Smart Grid with Renewable Energy Technologies for Sustainable Development**” organized by the Department of Electrical and Electronics Engineering, Sri Ramakrishna Engineering College, Coimbatore.

CIVIL | THE FUNDAMENTALS OF DIGITAL MARKETING

Mr.R.Vighnesh, Assistant Professor, Department of **Civil Engineering** has completed an online certification course on “**The Fundamentals of Digital Marketing**”, offered by Google Digital Garage.



CSE|FDP ON CONTEMPORARY COMPUTING TECHNOLOGIES

Mr. M. Vengateshwaran, Assistant Professor, **CSE** has participated in an International FDP on “**Contemporary Computing Technologies**” organized by the Department of Computer Applications and Department of Computer Science, Chennai during 21.06.2022 to 28.06.2022.



CSE|IP AWARENESS TRAINING PROGRAM



Ms. G. Renugadevi, Assistant Professor, CSE has participated in “IP Awareness Training Program” under National Intellectual Property Awareness Mission, organized by Intellectual Property Office, India on 28.06.2022.

M.TECH. CSE |HTML5- THE LANGUAGE

Dr.D.Prabha, Professor, Department of M.Tech.CSE has successfully completed an online course on “HTML5 – The Language” provided by Infosys.





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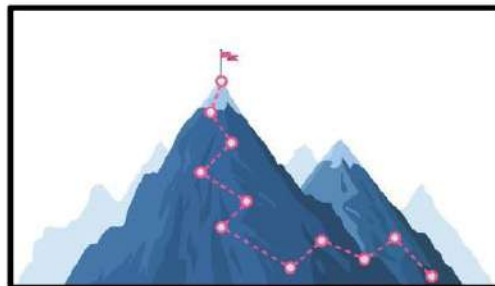


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FACULTY PROGRESSION



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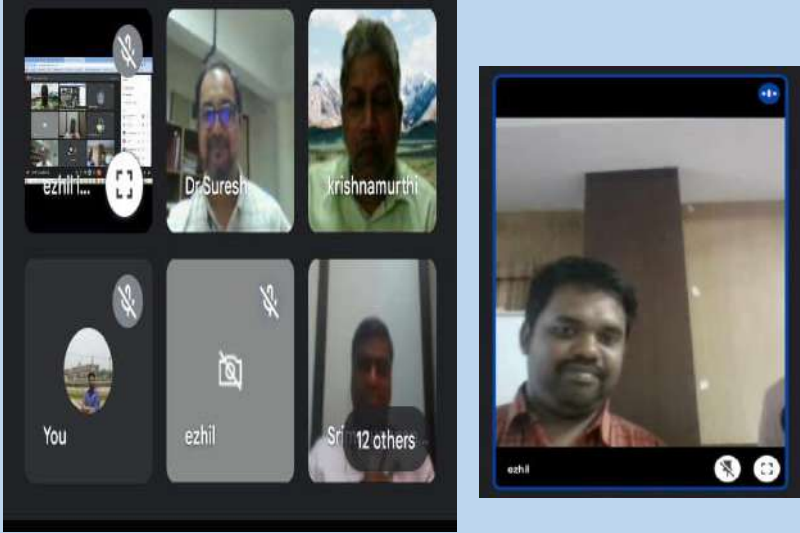
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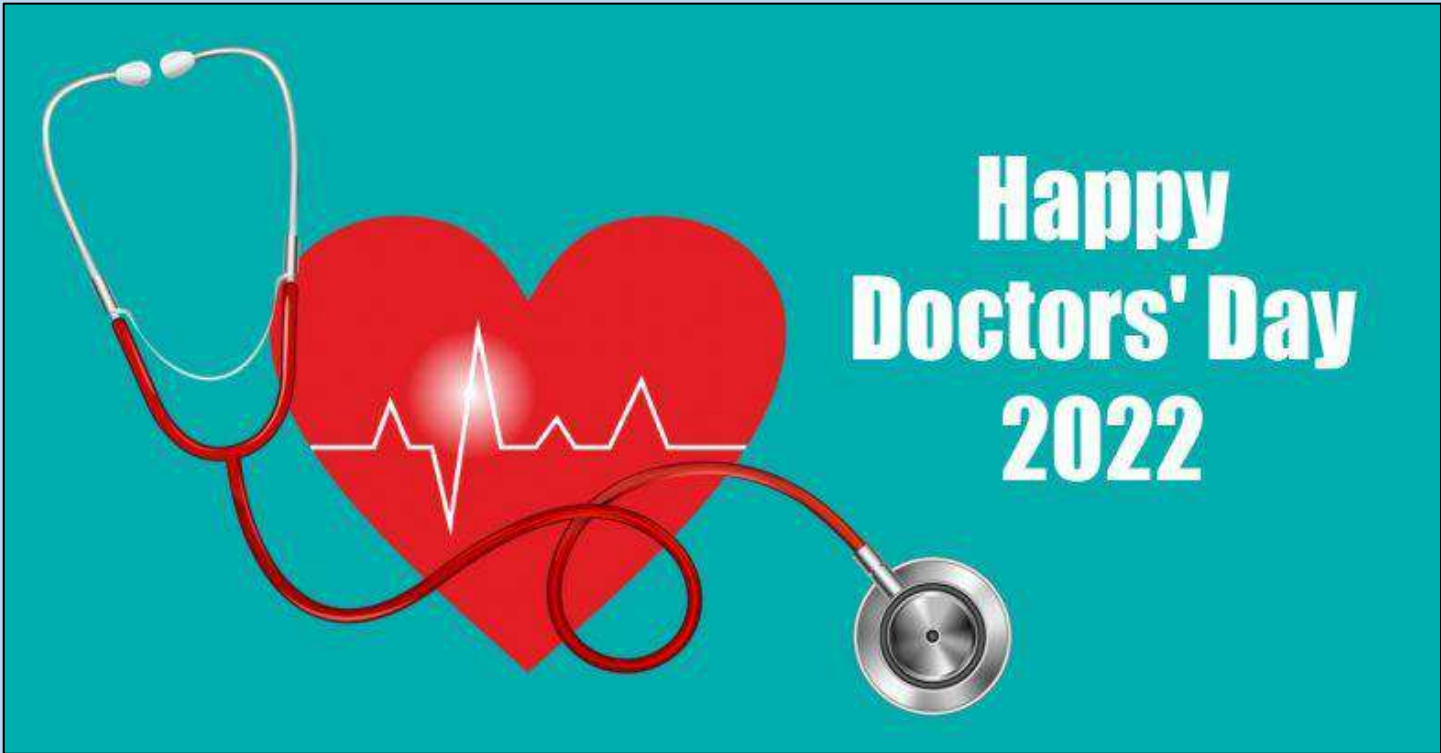
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CIVIL | PH.D VIVA VOCE

Mr.M.R.Ezhilkumar, Assistant Professor, Department of **Civil Engineering** has successfully defended his thesis on **“Study on vertical profiles of fine and coarse particulate matters in diverse street geometries of Chennai metropolitan city”** and was highly appreciated by the committee members.



GLOBAL OBSERVANCES





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CONFERENCE PRESENTATION



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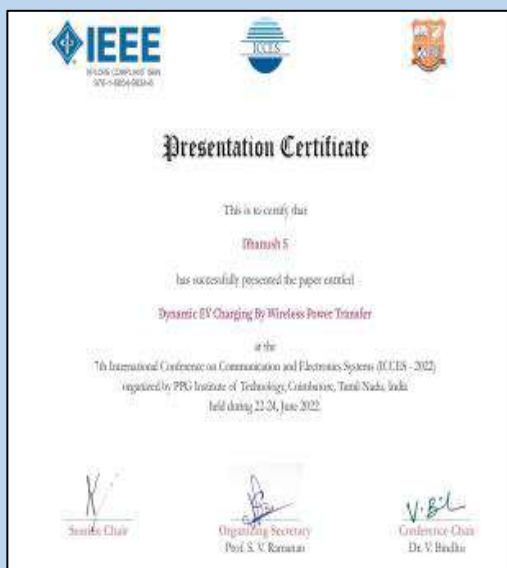
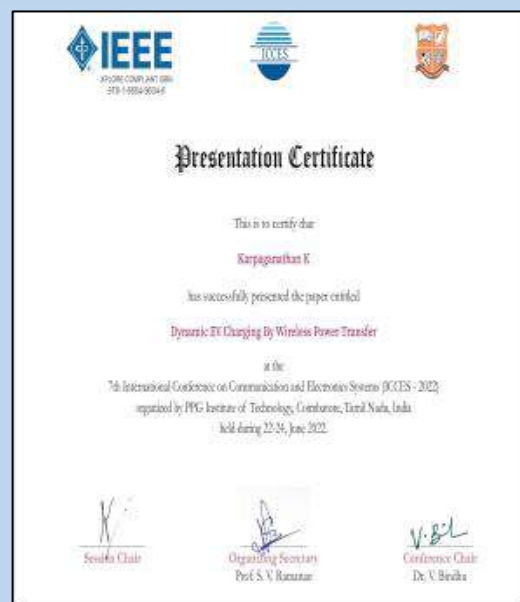
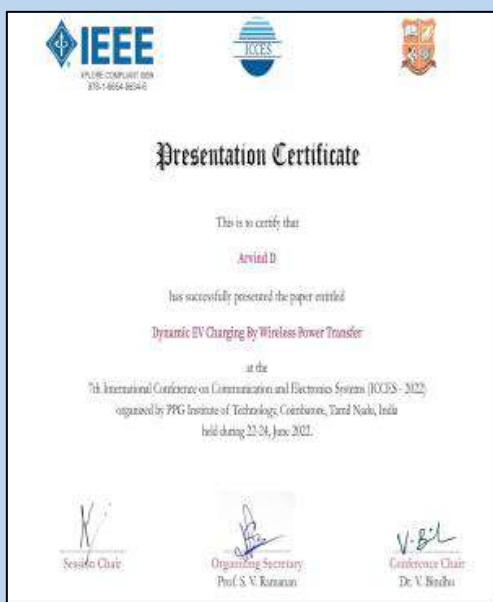
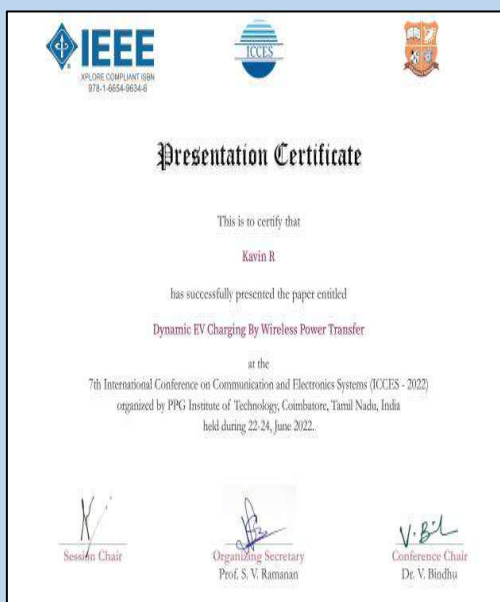


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EEE | CONFERENCE PRESENTATION



Mr.R. Kavin, Assistant Professor, **EEE** Department along with **D.Arvind**, **K.Karpaganathan**, **S.Dhanush** and **D.Ajay**, Final year students of **EEE** have presented and published a paper entitled “**Dynamic EV Charging by Wireless Power Transfer**” in the **IEEE** sponsored 7thInternational Conference on Communication and Electronics Systems- **ICCES 2022** organized by **PPG Institute of Technology**, Coimbatore.

EEE | CONFERENCE PRESENTATION

Dr.J.Karthika, Associate Professor, EEE Department has presented a Research Paper entitled **“Design and Implementation of Image Processing Based Lane Detection and Gradual Braking System”** and **“A Super-Capacitor & Battery Hybrid Energy Storage System Design and Power Management”** in the IEEE sponsored 7th International Conference on Communication and Electronics Systems- ICCES 2022 organized by PPG Institute of Technology, Coimbatore.



EEE | CONFERENCE PRESENTATION



Ms.N.Subhalakshmi, Assistant Professor, EEE Department has presented a Research Paper entitled **“Advanced Body Monitoring Face Mask”** in the 2nd International Conference on Intelligent Technologies (CONIT 2022).