



RVS COLLEGE OF ENGINEERING AND TECHNOLOGY

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Kumaran Kottam Campus, Kannampalayam (Po), Coimbatore - 641 402

Department of Electrical and Electronics Engineering

Electrical and Electronics Engineering is a field of engineering that generally deals with the study and application of electricity, electronics, and electromagnetism. The charge of EEE Department is to facilitate young Engineers with an associate degree with the space of professional skills necessary to accumulate technical exposure within the areas of Electrical and Electronics Engineering, to face the challenges of the longer term and modify them to search out innovative applications of Technology and nurture career improvement and develop human, social and intellectual qualities necessary for the success of the profession and also to reach the goal of Electrical Power for the development of our Country.



Dear Readers,

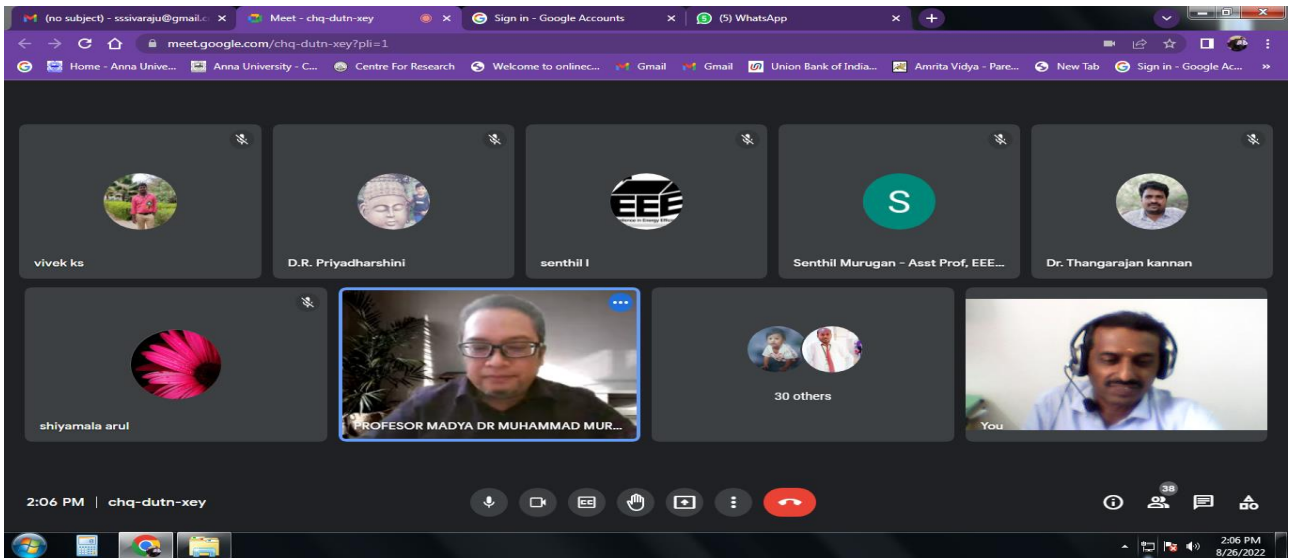
Im happy to announce the release of the second issue of yearly Newsletter of our department "FOOT PRINTS" , which will make us to move one step closer to fulfil our vision and mission. Education opens door to new opportunities and gives power to influence others. Knowledge is important where an education provides credentials in whatever you want to do.

- To serve the society through excellence in education, research and public service.
- Facilitating industry institution interaction in teaching, learning, consultancy and research activities to accomplish the technological needs of the society.
- Encourage our students to improve their attitudes and values that will prepare them for professionalism, life-long learning, entrepreneur practices and ethical values.
- Providing additional skills and training to meet the current needs of the industry.
- Motivating the students for active participation in co-curricular and extracurricular activities.

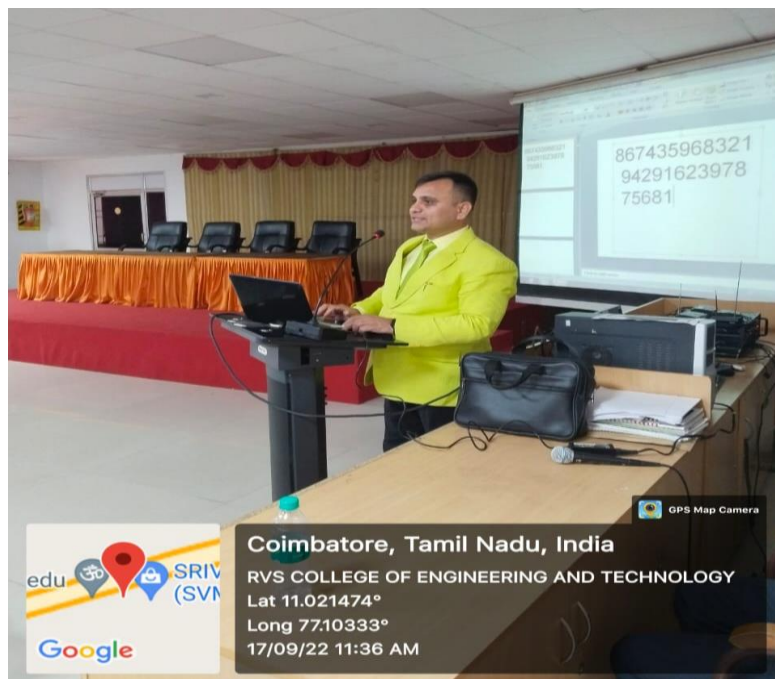
VISION

To promote learning and innovation in the field of electrical and electronics engineering to meet the global challenges.

A five days online Faculty Development Programme on “Emerging Technologies in Renewable energy for sustainable development” in association with Solar Research Institute, UniversitiTeknologi MARA(UiTM), Malaysia was organized from August 23-27,2022 with key speaker Dr.MohdNajib Bin MohdHussain, Senior Lecturer ,School of Electrical Engineering, Solar Research institute(SRI), UniversitiTeknologi MARA (UiTM).



- ❖ The Department of Electrical and Electronics Engineering and Career Guidance Cell jointly organised a Career Guidance Programme titled "Career Opportunities after Engineering " on 17.09.2022 with the resource person of Mr. S.Jitendra Tiwari, Senior Faculty, Made Easy Education Pvt. Ltd, New Delhi.



- ❖ On September 22, 2022, the Department of Electrical and Electronics Engineering had a Guest Lecture Program on “Disaster Management” with Mr.Karthik Kumar, Assistant Professor of EEE,Jai Shriram Engineering College, Coimbatore, as the speaker.
- ❖ Prof. Jayakumar, presented a guest lecture programme on " GATE is the Gateway for Engineering Career" on September 24, 2022, at the Department of Electrical and Electronics Engineering. At Coimbatore's RVS Technical campus, he serves as professor in S&Hdepartment.



- ❖ As a promotional activity under the title “ModhiParu” in Captain TV was organized at RVS College of Engineering and Technology campus on 27th September 2022. Our college students actively participated in this program.



- ❖ Two days Workshop on “ Safety Tips for Smart Phone Servicing & Trouble Shooting” in association with IEEEProduct safety Engineering society was organized for 4th and 5th October 2022 . Mr.B.Krishna Kumar and team from New Technology Mobile Service and Training Institute, Coimbatore acted as resource person for this programme.



- ❖ The Nehru Group of Institutions Technology Business Incubator (NGI TBI), Executive Director Dr. B. Vaikundaselvan, M.E., Ph.D., Dr. APJ Abdul Kalam Block, Nehru Group of Institutions, Coimbatore, acted as a resource person at a workshop titled “Entrepreneurship and Innovation as a Career Opportunity” organized on 1.11.2022 at RVS College of Engineering and Technology.





- ❖ Women Empowerment Cell jointly with IEEE Student Branch organized a guest lecture on “ Women in Engineering” .Dr.UshaDivakarla, Associate Professor in Information Technology, NITTE University, Karkala, Karnataka acted as resource person for this programme held on 3.11.2022.”



- ❖ The Department of Electrical and Electronics Engineering organised a Guest Lecture Program titled "Importance of Data Science " on 03.11.2022 with the resource person of Dr.K CHANDRASEKARAN, M.E, Ph.D, Senior Professor, Department of CSE, NITK, Surathkal, Mangalore.

❖ The



Department of Electrical and Electronics Engineering presented a Guest Lecture Program on November 18, 2022, featuring Dr.BrindhaNatarajan, Professor in RVSIMS, KumaranKottam Campus, Kannampalayam, Sulur, Coimbatore. "Organizational Behaviour for Engineers " was the theme.

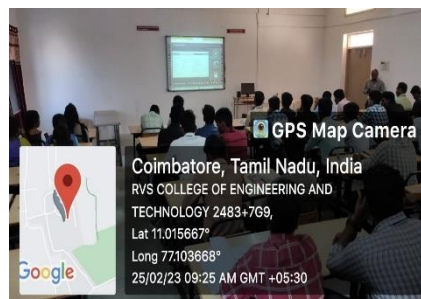
❖ Online Webinar on "Python programming for beginners" was organized by Department of Electrical and Electronics Engineering & IEEE Student Branch on February 10, 2023 with resource person Dr. Sukhminder Kaur, School of Computer Science and the Faculty of Innovation and Technology from Taylors University, Malaysia.



❖ The Department of Electrical and Electronics Engineering and IEEE Student Branch jointly organised guest lecture titled "Fault Diagnostics of Electrical AC Machines" on 22.02.2023 with the resource person of Dr. R. Vijayabhasker, Associate Professor, Department of Electronic and Communication Engineering, Anna University Regional Campus, Coimbatore.



- ❖ On February 25, 2023, the Department of Electrical and Electronics Engineering had aOnline Webinar on “IoT & AI in Electrical Industry Sectors” with Kannan Nova, Data Scientist, Microsoft, United States, as the speaker.

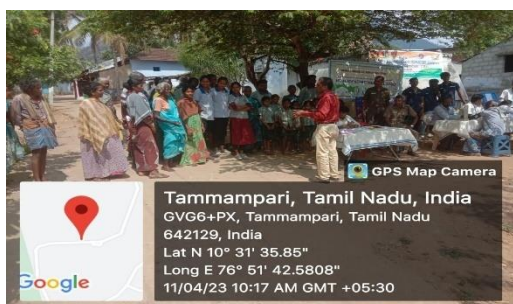


- ❖ Dr.R.Srinivasan, presented a Power talk on " Faculty Enhancement Program - Research and Product Development " on March 11, 2023, at the Department of Electrical and Electronics Engineering. At,Tamil Nadu State Council for Science and Technology (TNSCST), Chennai, he serves as Member Secretary.

❖




- ❖ As a service activity Unnat Bharat Abhiyan (UBA)- Cell adapted five tribal villages under Anamalai Tiger Reserve (Pollachi Division) control and organized Homeopathy Medical camp on 11.04.2023 and Siddha Medical Camp on 12.14.2023 at Thammampathi&Kallaagkutthu followed by Old Charkarpathi, NaakarUrtru. Our college students actively participated in this program along with faculty members.



visit to IIT-Madras-Research Park on 31.03.2023. The purpose of visit to upgrade ourselves continuously in the context of academics and research. This will help us to explore ourselves to learn the current trends and upcoming research in all engineering domains related to us. This visit also might enable mutually beneficial collaborative activities.



Department of Electrical and Electronics Engineering of our institution has been recognized as research centre with effect from 25.08.2022

 **CENTRE FOR RESEARCH**
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dirresearch@gmail.com

Lr.No: 2731/IR/EEE/AR2

Date : 25.08.2022

To
The Principal
RVS College of Engineering and Technology,
Kannampalayam,
Coimbatore 641402

RVS COLLEGE OF ENGG. & TECH. COIMBATORE	
TAPAL No. 2443	DATE: 29/08/22
CHAIRMAN	
PRINCIPAL	
A. O.	<input checked="" type="checkbox"/>

Sir/Madam,

Sub : Anna University - Research centre recognition - Department of Electrical and Electronics Engineering - Orders - Issued.


I am by direction to inform that the Department of Electrical and Electronics Engineering of your Institution has been recognized as a research centre with effect from **25.08.2022** for a period of three years upto **June 2025** as per common renewal session. The faculty members of this Department can interact with Anna University for collaborative research for the purpose of pursuing Ph.D. programme.

The recognized supervisors working in the above Department may be permitted to guide the candidates to carry out Ph.D. programme relevant to their field of specialization. Please refer to Ph.D. Regulations.

The above recognition shall be renewed once in three years in compliance with the required norms for research centre as applicable.

In all future correspondence quote "4273108" for reference.

The next renewal application (available in cfr.annauniv.edu) on fulfilling norms as applicable at the time of renewal along with the renewal fee shall be sent to this office. Renewal can be done three months prior to last date.


DIRECTOR

25/8/22

The Department of Electrical and Electronics Engineering of RVS College of Engineering and Technology has signed a Memorandum of Understanding (MoU) with SRIVARU Motors Private Limited, Trichy Road, Sulur, Coimbatore, on December 15, 2022.



The Department of Electrical and Electronics Engineering of RVS College of Engineering and Technology has signed a Memorandum of Understanding (MoU) with M/S. NEW TECHNOLOGY, Coimbatore on October 10th, 2022.



Book - Chapters published:

Dr.S.S.Sivaraju Professor &Head of the Department and Dr.T.Senthil Kumar of Electrical and Electronics Engineering has Published the following book chapter.

Book Chapter Title:Cyber-Physical Systems based on Marble Marcher using Artificial Intelligence with IoT, submitted to "Revolutionizing Healthcare Through Artificial Intelligence and Internet of Things Applications published by IGI Global: International Academic Publisher.



Revolutionizing Healthcare Through Artificial Intelligence and Internet of Things Applications

Keshav Kaushik (University of Petroleum and Energy Studies, India), Susheela Dahiya (University of Petroleum and Energy Studies, India), Ashutosh Dhar Dwivedi (Copenhagen Business School, Denmark), and Shilpi Aggarwal (State University of New York, USA)

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ISBN13: 9781668454220 | ISBN10: 166845422X | EISBN13: 9781668454237

Chapter 7

Cyber-Physical Systems Based on Marble Marcher Using Artificial Intelligence With IoT

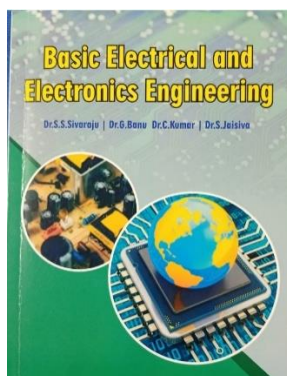
Sivaraju S. S., Kandasamy V., Viswanathan T., Senthilkumar T.

The physical object or robotic arm movement in cyber physical system controlled through artificial intelligence algorithms impact on smart devices through marble marcher game is proposed in this work. The cyber physical object movement is framed from the fractal surface which can produce any difficult terrain producing more input for intelligent algorithms. Four different surfaces are framed from the parameters such as rows, columns, foundation functions and peak values. The surface governing equations split the surface as side of cubes controlling the six different geometric planes for extracting more data. These data used as input for taking decision done by intelligent algorithm from core input from the pixel-by-pixel analysis of the smart device input. The coordinate transformation produces more control variable for different factors and accuracy parameters. The simulation model developed in MATLAB language and the results shows that the proposed system enhances the data control and transfer with minimum hardware requirement.

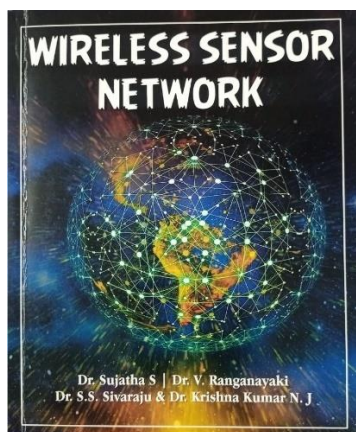
Books published

Dr.S.S.Sivaraju, Professor and Head of the Department of Electrical and Electronics Engineering has Published the following 3 books.

Basic Electrical and Electronics Engineering, ISBN: 978-93-94899-93-3, August 2022



Wireless Sensor Networks - ISBN: 978-93-93737-16-8, May 2022



Python -ISBN: 978-93-94002-83-8, March 2022

