

## INFO CORNER

18<sup>th</sup> National level Technical Symposium -  
GRID 2K22 - 30.09.2022



Value Added Course (VAC) on " Programmable  
Logic Controller (PLC)" 12.07.2022 to  
15.07.2022



Seminar on Life Skill Education and Its  
Implication to Third and Final Year of  
EEE students on 08.08.2022



Seminar on "Embedded System Based  
Applications" on 13.09.2022



Value Added Course (VAC) on Design of  
Printed Circuit Board using Photoresist  
Method from 19.07.2022 to 22.07.2022.



Value Added Course (VAC) on "MATLAB for  
Electrical Engineers"  
19.11.2022, 20.11.2022, 22.11.2022 and  
23.11.2022.



### Editorial Committee

**Dr. D.Gowrisankar**  
Assistant Professor / English  
**Mrs. K.Yamuna**  
Assistant Professor / EEE

## ISSUE 18

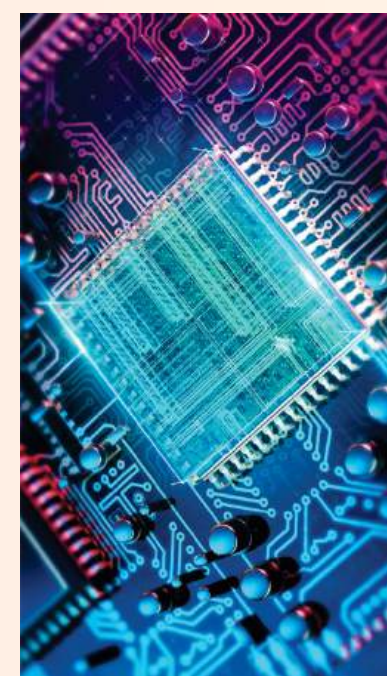
# ENERGETICS

EEE News Letters  
K.S.R. College of Engineering (Autonomous)  
Tiruchengode - 637 215

28.12.2022

### Contents

Faculty Achievements  
Department Activities  
Student Activities  
Info Corner



### INSTITUTION

#### Vision

We envision to achieve status as an excellent educational institution in the global knowledge hub, making self-learners, experts, ethical and responsible engineers, technologists, scientists, managers, administrators and entrepreneurs who will significantly contribute to research and environment friendly sustainable growth of the nation and the world.

#### Mission

To inculcate in the students self-learning abilities that enable them to become competitive and considerate engineers, technologists, scientists, managers, administrators and entrepreneurs by diligently imparting the best of education, nurturing environmental and social needs.

To foster and maintain mutually beneficial partnership with global industries and Institutions through knowledge sharing, collaborative research and innovation.

### Department

#### Vision

We envision a Department that leads in the field of Electrical and Electronics Engineering through education, training and research committed to influence the direction of the field and make a constructive contribution to society wherein the Department can thrive and grow.

#### Mission

To create professionally competent and resourceful Electrical and Electronics Engineers.

To promote excellence in teaching, pioneering research and innovation for a sustainable growth of the nation and enrichment of humanity.

### PROGRAMME EDUCATIONAL OBJECTIVES (PEOs)

The Graduates of the Programme will be able to :

- PEO1** *Employability and Higher studies* : Excel in professional career and/or higher education by acquiring knowledge in basic engineering, science and mathematics in Electrical and Electronics Engineering.
- PEO2** *Sustainable Engineering Solutions* : Develop and apply engineering solutions for solving contemporary social and human issues with realistic constraints through modern tools.
- PEO3** *Interpersonal and Ethical Proficiency* : Exhibit professional and ethical standards, effective communication skills, teamwork spirit and multi disciplinary approach for successful careers in Indian and Multinational companies and to engage in lifelong learning.

### PROGRAM OUTCOMES (POS)

Engineering Graduates will be able to :

- PO1** *Engineering Knowledge* : Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
- PO2** *Problem Analysis* : Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
- PO3** *Design/Development of Solutions* : Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
- PO4** *Conduct Investigations of Complex Problems* : Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
- PO5** *Modern Tool Usage* : Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modelling to complex engineering activities with an understanding of the limitations.
- PO6** *The Engineer and Society* : Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
- PO7** *Environment and Sustainability* : Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.



- PO8 Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- PO9 Individual and Team Work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- PO10 Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
- PO11 Project Management and Finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
- PO12 Life-long Learning:** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

#### Program Specific Outcomes (PSOs)

- PSO1 Proficiency in Core:** Realize the generation, transmission, distribution and utilization of electrical power.
- PSO2 Professional Skill:** Formulate the testing procedures needed to make the measurements of electrical and electromagnetic quantities and to provide solutions to the real time problems.

### FACULTY ACHIEVEMENTS

#### Faculty Publications:

Name of the Authors	Title of the Paper	Title of the Journal	Volume	Page No.	Year
S. Dinakaran V. Ravi P. Anitha	Radial Subset Clustering Feature-Based Deep Spectral Neural Classification for relational drug recommendation	Neuro Quantology	Vol. 20 No.9	pp. 873-883 DOI:10.14704 /nq. 2022.20.9. NQ440097	2022
R. Hemalatha M. Ramasamy	Harmonics Extraction Scheme for Power Quality Improvement Using Chbmli-Dstatcom Module	Intelligent Automation & Soft Computing	Vol.35 No.2	pp. 1505-1525 DOI:10.32604/ iasc. 2023.026301	2022
Vijayakumar Arun R. Kannan S. Ramesh M. Vijayakumar P. S. Raghavendran M. Siva Ramkumar P. Anbarasu Venkatesa Prabhu Sundramurthy	Review on Li-Ion Battery vs Nickel Metal Hydride Battery in EV	Advances in Materials Science and Engineering	Vol. 2022	pp.1- 7 DOI:10.1155/20 22/7910072	2022
K. Rajesh Kumar M. Vijayakumar	Optimization of Cognitive Femtocell Network via Oppositional Beetle Swarm Optimization Algorithm	Intelligent Automation & Soft Computing	Vol.36 No.1	pp. 819-831 DOI: 10.32604 /iasc. 2023.030961	2022
Dhanalakshmi Shanmugasundaram Dr. Gowri Shankar Chinnusamy	Fuzzy neural network Optimization approximate Multiplier using nonlinear Anisotropic image denoising	Neuro Quantology	Vol.20 No.8	pp. 2477 -2491 doi:10.14704/ nq.2022.20.8. NQ22270	2022
Bharani Prakash, T; Sankar Ganesh, R.	Control of Three Phase Solar Photovoltaic System With Power Quality	International Journal for Science and Advance Research in Technology	Vol. 8, No. 5	pp. 1212-1215	2022
S. Senthil Kumar K.Sakthivel	Control of Three Phase Solar Photovoltaic System With Power Quality	International Journal for Science and Advance Research in Technology	Vol. 8, No. 5	pp. 1216-1219	2022
Dr.C.Gowri Shanar M.Nivashini 2	Harmonic Minimization in Grid Coupled Photovoltaic Structures Using Selective Harmonic Elimination Pulse-Width Modulation in Multiple Level Series Linked Nano-Scale Double Gate Hetero-Structure MOSFET Based H Type Bridge Inverters	Journal of Nanoelectronics and Optoelectronics	Vol.17, No. 1	pp. 128-135(8) DOI: https:// doi.org/10.1166/ jn o.2022.3178	2022

#### Faculty Patent Publications:

Topic	Inventors	Application No.	Date	Status
Solar Panel	Dr.S.Ramesh Dr.C.Gowrishankar Mr. S.Dhivagar	363767-001	18/10/2022	Patent Granted

#### Faculties as participants in various programmes:

Name of the Faculty	Name of the Event	Seminars/ Workshops/ Conferences/ FDP	Date of the Event	Conducted by	Place	No. of days Attended
E.Kannan	Virtual Laboratory platform for Digital Electronics Circuits Laboratory	FDP	09.07.2022	Vellore Institute of Technology	-	01day
E.Kannan	Computer Vision and Natural Language Processing	FDP	08.08.2022 - 18.08.2022	Easwari Engineering College	-	11days
K.Yamuna	Insights into Artificial Intelligence and Machine Learning for Bio-informatics Applications	FDP	27.06.2022 - 07.07.2022	National Institute of Technology Warangal	-	11days
A.Vasanthi	Insights into Artificial Intelligence and Machine Learning for	FDP	27.06.2022 - 07.07.2022	National Institute of Technology	-	11days
B.Yuvarani	Insights into Artificial Intelligence and Machine Learning for Bio-informatics Applications	FDP	27.06.2022 - 07.07.2022	JNational Institute of Technology Warangal	-	11days
S.Dhivagar	Application of Machine Learning and Deep Learning Using MATLAB	FDP	01.08.2022 - 07.08.2022	Vel Tech Multi Tech Dr.Rangarajan Dr.Sakunthala Engineering College	-	08days
M.Subramani	Application of Machine Learning and Deep Learning Using MATLAB	FDP	01.08.2022 - 07.08.2022	Vel Tech Multi Tech Dr.Rangarajan Dr.Sakunthala Engineering College	-	08days
Dr. S.Senthil Kumar	DATA SCIENCE FOR ENGINEERING APPLICATION	FDP	11.07.2022 to 20.07.22	NIT,WARANGAL	-	10days
Dr. Senthil Kumar S,	Environment Management System, Green Campus Audit, Energy Audit and Hygiene Audit to Educational Institutions and Industrial Sectors	FDP	26.09.22 to 30.09.2022	Nature Science Foundation, Coimbatore - 641 046, Tamil Nadu, India	-	05days
Dr. VIJAYAKUMAR M	Environment Management System, Green Campus Audit, Energy Audit and Hygiene Audit to Educational Institutions and Industrial Sectors	FDP	26.09.22 to 30.09.2022	Nature Science Foundation, Coimbatore - 641 046, Tamil Nadu, India	-	05days

Dr. VIJAYAKUMAR M,	Environment Management System, Green Campus Audit, Energy Audit and Hygiene Audit to Educational Institutions and Industrial Sectors	FDP	26.09.22 to 30.09.2022	Nature Science Foundation, Coimbatore - 641 046, Tamil Nadu, India	-	05days
B.Yuvarani	Environment Management System, Green Campus Audit, Energy Audit and Hygiene Audit to Educational Institutions and Industrial Sectors	FDP		Nature Science Foundation, Coimbatore - 641 046, Tamil Nadu, India	-	05days
K.Yamuna	Trends & challenges in the development of electric vehicles & hybrid electric vehicles	FDP	26.09.22 to 30.09.2025	lendi insitute of engineering & Technology, Vizianagaram	-	05days
A.Vasanthi	Trends & challenges in the development of electric vehicles & hybrid electric vehicles	FDP	26.09.22 to 30.09.2025	lendi insitute of engineering & Technology, Vizianagaram	-	05days
Dr.E.Vani	Trends & challenges in the development of electric vehicles & hybrid electric vehicles	FDP	26.09.22 to 30.09.2025	lendi insitute of engineering & Technology, Vizianagaram	-	05days
S.Gowtham	Trends & challenges in the development of electric vehicles & hybrid electric vehicles	FDP	26.09.22 to 30.09.2025	lendi insitute of engineering & Technology, Vizianagaram	-	05days
Dr.R.Senthil Kumar	Powering IOT using ARDUINO / RASPBERRYPI	FDP	29.09.22 to 30.09.2025	Nan Mudhalvan - Sona College of Technology Salem	Salem	05days
Dr.R.Senthil Kumar	Applications of Machine Learning and Deep Learning using Matlab	FDP	01.08.22 to 07.08.22	Vel Tech Multi Tech Dr.Rangarajan Dr.Sakunthala Engineering College	-	07days
Dr.S.Ramesh	DESIGN AND DEVELOPMENT OF ELECTRIC VEHICLES: RESEARCH CHALLENGES AND OPPORTUNITIES	FDP	17th to 21st October 2022	Murugappa Polytechnic college, Chennai	-	05days
Dr.R.Senthil Kumar	Smart Grid and Distributed Energy Systems	International Virtual seminar	12.9.2022	Dept of EEE/ Parthyusha Engineering College	-	01days
Dr.R.Senthil Kumar	National Intellectual Property Awareness Mission	IP Awareness Program	11.11.2022	IQAC/KSRCE-Intellectual property Office	-	01days
Dr.R.Senthil Kumar	ICT Academy	Bridge 2022	13.07.2022	Chennai Trade Centre, chennai	-	01days
Dr.R.Senthil Kumar	Optimization of Machine Learning Algorithms for better healthcare services	One Day Seminar	17.08.2022	Department of Information Tech, Kongundu College of Engineering and Technology	-	01days

Dr.E.Vani	National Intellectual Property Awareness Mission	IP Awareness Program	11.11.2022	IQAC/KSRCE-Intellectual property Office	-	01days
Events Organized by the faculty:		<b>DEPARTMENT ACTIVITIES</b>				
Name of the Coordinators	Title of the Programme	Date		Name of Funding Agency/ Chapter	Resource Person	
		From	To			
Dr.M.Ramasamy Mr.M.Subramani	Value Added Course on MATLAB for Electrical Engineers	19.11.2022, 20.11.2022, 22.11.2022	23.11.2022	Aarthi Trust	Dr.M.Ramasamy Associate Professor K.S.R. College of Engineering, Tiruchengode	
Dr.V.Ravi Dr.R.Sankar Ganesh Mrs.B.Yuvarani	Technical Symposium- GRID 2022	30.09.2022	-	Aarthi Trust	Mr.Sownder kumar Periasamy The HK Online -Co founder & CHRO Coimbatore.	
Dr.V.Ravi Dr.R.Sankar Ganesh	Value Added Course on Training on Arduino Programming and Sensors Interfacing and Sensors Interfacing	26.09.2022	30.09.2022	Aarthi Trust	Mr.M.Parthiban Managing Director Caliber Embedded Technologies India Pvt. Limited, Salem	
Dr.R.Sankarganesh Dr.V.Ravi	Investor Awareness programme on Financial Literacy	23.09.2022		Aarthi Trust	Dr.K.Prakasam Director, Keyway Academy Erode.	
Dr.M.Ramasamy Dr.R.Senthilkumar	Seminar on Recent Trends In Real Time Embedded System	22.09.2022	-	IEEE	Karthick M.P, Technical Head, C Cube Technologies, Salem	
Dr.M.Ramasamy Dr.R.Senthilkumar	Seminar on Embedded System Based Applications	13.09.2022	-	IEEE	Mr.Mohammed Fareed Project Engineer IPCS Global Solution Private Limited Salem - 636 004 Tamil Nadu	
Dr.M.Ramasamy Dr.R.Senthilkumar	Seminar on Life Skill Education and Its Implication	08.08.2022	-	IEEE	T.P. Karthik Project Manager Kyndryl Inc.Private Ltd Subsidiary of IBM Bangalore	
Mrs.A.Vasanthi Mrs.K.Yamuna Mrs.B.Yuvarani Dr.E.Vani	Guest lecture on Optimal Design methodology for E-Vehicle.	04.08.2022	-	Aarthi Trust	Mr. M. Parthiban Managing Director, Caliber Embedded Technologies India Pvt. Ltd., Salem, Tamil Nadu.	
Dr.M.Ramasamy Mr.M.Subramani	Value Added Course on Design of Printed Circuit Board using Photo Resistive Method	19.07.2022	22.07.2022	Aarthi Trust	Mr.T.Anand Febino Automation Solutions, Erode	
Dr.M.Vijayakumar (1) Dr.M.Ramasamy Dr.R.Senthilkumar	Value Added Course on Programmable Logic Controller (PLC)	12.07.2022	15.07.2022	Aarthi Trust	Mr.S.Aravind Senior Project Engineer, IPCS Automation Salem	
		<b>STUDENT ACTIVITIES</b>				
Awards Received by Students in the Events Organized by other Institutes						
S.No	Name of the Students	Name of the Activity	Date	Organized by	Prize / Award Won	
1	K.S.Ramanitharan	Paper Presentation	12.10.2022	Gnanamani College of Technology	II	
2	S.Periyannarayanan	Paper Presentation	12.10.2022	Gnanamani College of Technology	II	
3	B.Lavanya	Volley ball	03 & 04.12.2022	Anna University Zonal (Builders Engineering College)	II	
4		Athletic- High Jump	27.12.2022	Anna University Zonal (Bannari amman Institute of Technology)	II	
5		4X100m relay	28.12.2022	Anna University Zonal (Bannari amman Institute of Technology)	II	