

CIRCUIT CHRONICLES

ISSUE 21

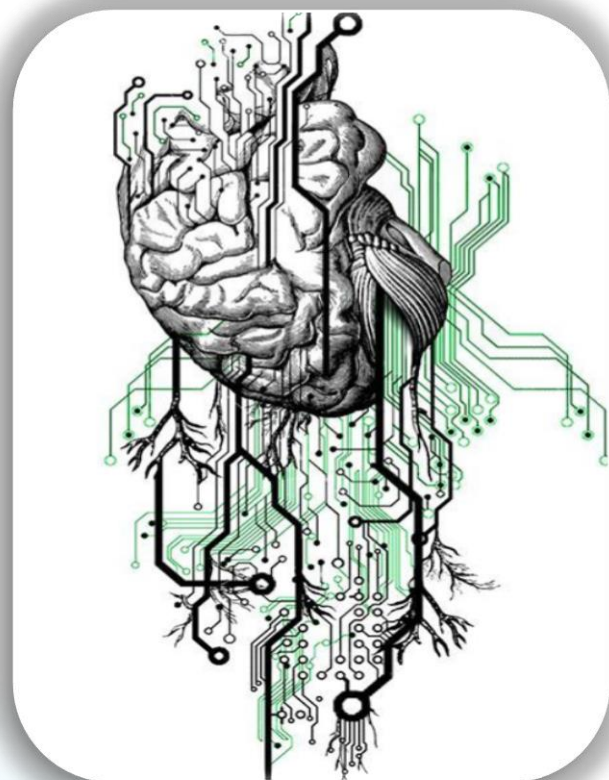
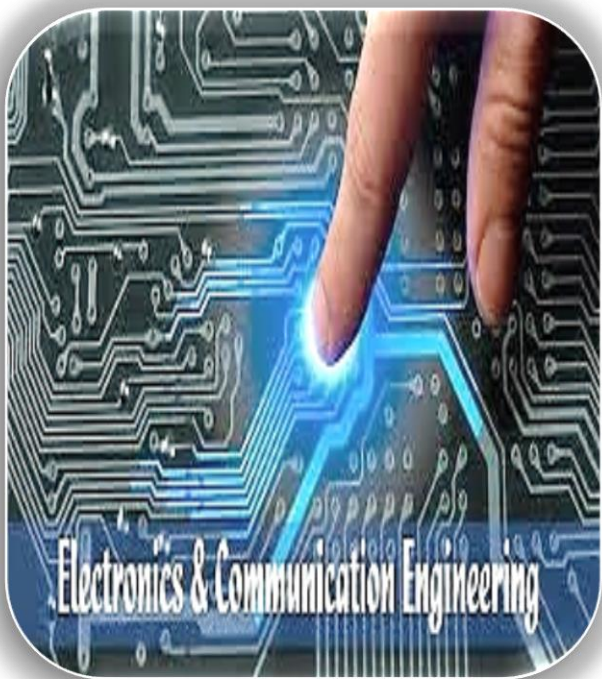
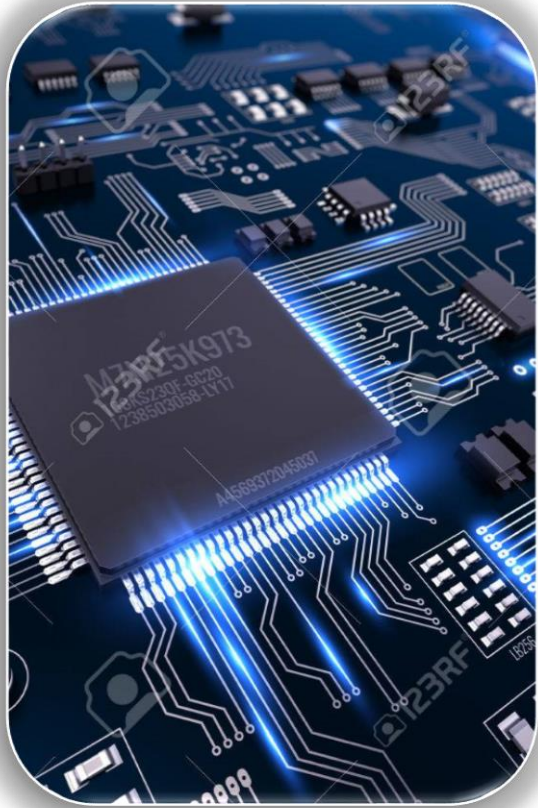
ECE NEWS LETTER

K.S.R. COLLEGE OF ENGINEERING (Autonomous)
TIRUCHENGODE – 637 215



CONTENTS

- Faculty Achievements
- Department Activities
- Students Activities
- Info Corner



VISION OF THE INSTITUTION

IV 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 OF THE INSTITUTION

IM 1 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.

IM 2 To foster and maintain mutually beneficial partnership with global industries and Institutions through knowledge sharing, collaborative research and innovation.

VISION OF THE DEPARTMENT

DV We envision as a center of excellence in the field of Electronics and Communication Engineering to produce technically competent graduates with diverse teaching and research environments.

MISSION OF THE DEPARTMENT

DM 1 To educate the students with the state of art technologies to meet the growing challenges of the industries.

DM 2 To develop an innovate, competent and ethical Electronics and Communication Engineer with strong foundations to enable them for continuing education.

PROGRAMME EDUCATIONAL OBJECTIVES (PEOS)

The graduates of the programme will be able to:

PEO 1 Employability and Higher Education: Excel in Professional career and higher education by acquiring knowledge in mathematical, social, scientific & engineering principles.

PEO 2 Core Competence: Analyze, design and develop/implement core engineering problems in communication systems that are technically sound, economically feasible and socially acceptable.

PEO 3 Interpersonal Skills and Team Work: Exhibit professionalism, ethical communicating skills and team work by engaging in lifelong learning for sustainable development of the society.

PROGRAMME OUTCOMES (POS)

Program Outcomes (POs)

PO1 Engineering Graduates will be able to:

Engineering Knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

PO 2 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.

PO 3 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.

PO 5 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 PEnvironment 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 Professional Skill:** Specify, design and test modern electronic systems that perform analog and digital processing functions.
- PSO2 Problem – Solving Skills:** Design essential elements (circuits and antennas) of modern RF/Wireless communication systems.

CONTENTS

- Faculty Achievements
- Department Activities
- Students Activities

FACULTY ACHIEVEMENTS

Publications:-

NAME OF THE AUTHOR(S)	TITLE OF THE PAPER	NAME THE JOURNAL	VOLUME/ISSUE NO	DOI/ISSN NO	YEAR
Dr.P.S.Periasamy	Computer aided coronary atherosclerosis plaque detection and classification	Intelligent automation & soft computing	34/1	Doi:10.32604/ia.sc.2022.025632	2022
	A trusted distributed routing scheme for wireless sensor networks using block chain and jelly fish search optimizer based deep generative adversarial neural network (deep-gann) technique	Wireless personal communications		Doi.Org /10.1007/s11277-022-09784-x	2022

Dr.R.Poornima	Solar Powered Floating Water TarshCollector	International Journal of Innovative Research in Technology	8/8	Issn:2349-6002	2022
Dr.T.M.Sathishkumar	Solar Powered Floating Water TarshCollector	International Journal of Innovative Research in Technology	8/8	Issn:2349-6002	2022
Mr.R.Veeramani	Solar Powered Floating Water TarshCollector	International Journal of Innovative Research in Technology	8/8	Issn:2349-6002	2022
Mr.K.Karuppanasamy	Solar Powered Floating Water TarshCollector	International Journal of Innovative Research in Technology	8/8	Issn:2349-6002	2022
Mr.J.Rameshkumar	Solar Powered Floating Water TarshCollector	International Journal of Innovative Research in Technology	8/8	Issn:2349-6002	2022
Mr.M.Jothimani	Solar Powered Floating Water TarshCollector	International Journal of Innovative Research in Technology	8/8	Issn:2349-6002	2022
Mr.Mahendran	Solar Powered Floating Water TarshCollector	International Journal of Innovative Research in Technology	8/8	Issn:2349-6002	2022

Participants in Various Programmes:-

NAME THE FACULTY(S)	TITLE OF THE PROGRAMME	CONDUCTED BY	DATE(S) AND YEAR
Dr.P.S.Periasamy	Orientation programme on DDU-GKY for prospective PIAS	National Institute of Rural Development & Panchayati raj, K.S.R. College of Engineering.	23.11.2021 to 26.11.2021
	AICTE training and learning (ATAL) academy-outcome based education	All India Council for Technical Education Engineering College .Bikaner	26.07.2021 to 30.07.2021
	AICTE training and learning (ATAL) academy-NBA accreditation process	All India Council for Technical Education. Jntua ananthapuramu	28.06.2021 to 02.07.2021
Dr.Reswaramoorthi	Workshop on embedded systems -an application driven approach	AICTE Training and learning (ATAL) academy.ST micro electronics	25.07.2021 to 27.07.2021
	FDP on cyber security	AICTE Training and Learning (ATAL) Academy. Institute of Engineering and Technology	24.08.2021 to 28.08.2021
	FDP on IOT framework development for agriculture sector	AICTE Training and Learning (ATAL) academy, LBS college of Engineering, kerala.	06.09.2021 to 10.09.2021
Dr.R. Poornima	FDP on Advanced Communication Systems A research perspective	AICTE Training and Learning (ATAL) academy, College of Engineering, Karunagappally.	09.08.2021 to 13.08.2021
Dr.R.Satheeskumar	Transform life from ordinary to extraordinary	Aditya Birla Capital.	02.01.2022
Mrp.Sivasankar Rajamani	FDP on Revival Strategies for turnaround of Indian economy from management perspective.	AICTE, K.S.Rangasamy College of Technology	06.09.2021-19.09.2021
Mr.Sathishkumar .T.M	FDP on Electric Vehicles Challenges and Opportunities in future India	AICTE Training and learning (ATAL) academy, RMK College of Engineering & Technology.	20.09.2021 to 24.09.2021
Mr.Rameshkumar.J	Orientation Programme on DDU-GKY for prospective pias	National institute of rural development & panchayati raj, K.S.R.College of Engineering	23.11.2021 to 26.11.2021

NAME THE FACULTY(S)	TITLE OF THE PROGRAMME	CONDUCTED BY	DATE(S) AND YEAR
Mr.Karuppannasamy	FDP On kotlin the next frontier in meta programming	AICTE Training and learning (ATAL) Academy, Velalar College of Engineering & Technology	05.07.2021 to 09.07.2021
Dr.Velliangiri A	FDP On Training and learning sponsored virtual faculty development Program on sensor Technology	AICTE Training and learning (ATAL) academy, K.S.R. College of Engineering	04.10.2021 to 08.10.2021
	FDP on embedded design and development using free / open source tools	AICTE Training and learning (ATAL) academy, Centre for Development of Advanced Computing	09.08.2021 to 13.08.2021 and
	FDP on outcome based education	AICTE Training and learning (ATAL) academy, Engineering College ,Bikaner.	26.07.2021 to 30.07.2021
Mr.Veeramani R	FDP on NBA Accreditation process	AICTE Training and learning (ATAL) academy, JNTUA Ananthapuramu	28.06.2021 to 02.07.2021
	FDP on AICTE training and learning sponsored virtual FDP on sensor technology	AICTE Training and learning (ATAL) academy, K.S.R.College of Engineering	04.10.2021 to 08.10.2021
	FDP on NBA Accreditation And Teaching Learning in Engineering	NarasusSarathy Institute of Technology	21.02.2021 to 25.02.2022
Mr.Mahendran R	FDP on Research Issues in VLSI Design and Testing	AICTE Training and learning (ATAL) academy, Government College of Engineering,Srirangam	02.08.2021 to 06.08.2021
	Entrepreneurship development cell , IPR	SCAD College of Engineering & Technology	30.09.2021
Dr.Uvarajan K.P	National webinar on electric vehicle technology	K.S.R College of Engineering	29.11.2021
Mr.Krishnakumar S	EV Design	Pnntech e learning	02.02.2022 to 03.03.2022
	Workshop on How Teachers can Make a Difference	Teaching learning center Indian institute of technology madras	19.01.2022 to 21.01.2022

Patent Publication / Granted

TOPIC	INVENTORS	APPLICATION NO	DATE	STATUS
Face mask detector	Dr.R.Eswaramoorthi Dr.A.Velliangiri	363759-001 Cbr.No: 201293	05/05/2022	Filed
Solar charging station	Dr.K.P.Uvarajan Dr.T.M.Sathishkumar	364440-001 Cbr.No: 201750	19.05.2022	Filed
Android document sharing system using block chain technology	Dr.R.Eswaramoorthi	202241019701 Filed date 31/03/2022	15/04/2022	Published
IoT and cloud computing based child-tracking system by using ESP-8266	Dr.R.Eswaramoorthi	202141055634 Filed date 01/12/2021	10/12/2021	Published
AI based indoor mapping and navigation robot	Mrs.P.Thilagavathi	202141056822 a Filed date 07/12/2021	10/12/2021	Published
Smart spectacles with display and reminder techniques (Australian patent)	Dr.Karthikeyan S	Patent no: 2021105809 18.08. 2021	Term of patent: Eight years from 18 august 2021	Granted on 21.10.2021

STUDENT ACTIVITIES

Awards Received by Students:-

S.NO.	NAME OF STUDENTS	NAME OF THE ACTIVITY	DATE	ORGANIZED BY	PRIZE/ AWARD WON
1	Vinothini G	PAPER PRESENTATION	28.04.22	M.Kumarasamy College of Engineering, Karur	1 st Prize
2	Tamilshri S	PAPER PRESENTATION	28.04.22	M.Kumarasamy College of Engineering, Karur	1 st Prize
3.	Vaseekaran N	CAD Modeling	19.05.22	K.S.R.College of Engineering, Tiruchengode.	1 st Prize
4.	Devaviknesh S	CAD Modeling	19.05.22	K.S.R.College of Engineering, Tiruchengode.	2 nd Prize
5.	Sivaprakasam M	Photography	19.05.22	K.S.R.College of Engineering, Tiruchengode.	2 nd Prize
6	Naveenkumar P	400 Mts running	24.06.22	K.S.R.College of Engineering, Tiruchengode.	First Prize
		4x100 Mts relay	24.06.22	K.S.R.College of Engineering, Tiruchengode.	First Prize
		Volley ball	24.06.22	K.S.R.College of Engineering, Tiruchengode.	First Prize
		100 Mts sprint	24.06.22	K.S.R.College of Engineering, Tiruchengode.	First Prize
7	Sowmiya.K	4x100 relay	24.06.22	K.S.R.College of Engineering, Tiruchengode.	2 nd Prize
		Javelin	24.06.22	K.S.R.College of Engineering, Tiruchengode.	Third Prize

8	Barani.C	Table Tennis	24.06.22	K.S.R.College of Engineering, Tiruchengode	Winner
		Javelin	24.06.22	K.S.R.College of Engineering, Tiruchengode	Second Prize
		400 Mts running	24.06.22	K.S.R.College of Engineering, Tiruchengode	Second Prize
9	Mahalakshmi.S	100 Mts dash	24.06.22	K.S.R.College of Engineering, Tiruchengode	Third Prize
		Shot Put	24.06.22	K.S.R.College of Engineering, Tiruchengode	Second Prize
10	Manikandan.S.J	100 Mts dash	24.06.22	K.S.R.College of Engineering, Tiruchengode	Third Prize
		Volley ball	24.06.22	K.S.R.College of Engineering, Tiruchengode	Winner
11	Dhanuja R	4*100 Relay	24.06.22	K.S.R.College of Engineering, Tiruchengode	Second Prize
12	Jhanani K K	Table Tennis	24.06.22	K.S.R.College of Engineering, Tiruchengode	Winner

Editorial Committee

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