

Newsletter Feb 2021

From the HOD's Desk

Welcome to the Dept. of ECE, at RSET, Kochi. This newsletter will be covering departmental activities of staff and students and the major milestones achieved.

The world today runs on electronics and communications. The leaps and bounds growth we're seeing in technology and quality of life has huge contributions from electronics and communications engineering. Therefore, there is a demand for talent in this stream of engineering. Electronics is the backbone of digital technology. Hence, if you've chosen to make a career in this stream, you are already on a path that has more likelihood of success and career growth.

VISION:

To evolve into a premier technological and research institution, moulding eminent professionals with creative minds, innovative ideas, and sound practical skill, and to shape a future where technology works for the enrichment of mankind.



MISSION:

To impart state-of-the-art knowledge to individuals in various technological disciplines and to inculcate in them a high degree of social consciousness and human values, thereby enabling them to face the challenges of life with courage and conviction.

The Way Forward:



About the Department

HOD: Dr. Rithu James

VLSI Research Group:
Dr. Jobin K Antony

Communications
Research Group:
Dr. Jaison Jacob

Signal Processing
Research Group:
Ms Harsha A

Staff Activities :
Mr.Abhishek
Viswakumar

Staff Activities
Publications:
Mr.Ajai V Babu

Student Activities:
Mr.Rony Antony

Placement Activities:
Mr.Kiran K A

Short Term Courses:
Dr.Simi Zerine Sleeba

Lab new S/W & H/W:
Ms.Jisa David

Upcoming Activities
Events:
Ms..Deepthy G S

Mentoring Activities:
Ms.Preethi Bhaskaran

Alumni Activities:
Mr.Bonifus P L

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INDUSTRY INTERACTIONS :

Event	Faculty Name	Event details	Date	Organised By
MATLAB / Simulink Training	Mr Karunakara P. Menon, Ms Rinju Mariam Rolly	Designed and conducted a training course in MATLAB/Simulink for Control System for engineers	6 th to 28 th Feb 2021	Indocosmo Pvt. Ltd/ Komatsu Ltd. Japan. 30 hours of online classes were delivered from 6/2/21 to 28/2/21 in collaboration with the ECE Dept (Dr Unnikrishnan P.C)
Internships for M. Tech Final Project	Ann Mariya Varghese, Athira VG, Pooja Das, Roja Elna (M. Tech VAES S3 Students)	Internships for MTech Final Project	Ongoing	Internships offer from SmartIOPS Inc., a start-up company based in California USA with offices in Bangalore and Trivandrum. The company designs and develops enterprise class Solid State Drives, the students MTech thesis work will be targeted to areas useful for the company.

FACULTY ACHIEVEMENTS:

Event	Details	Faculty Name	Duration	University/Institute
FDP	Inculcating Universal Human Values in Technical Education	Dr. Sabna N	1 st Feb to 5 th Feb 2021	AICTE

STUDENT ACHIEVEMENTS:

Sl.No	Name of student	Achievement	Details	Date
1	SONAL ANTONY, SUVETA YADAV, NIVETHA K, RACHEL, ROHITH MATHEW	5 th Position	IILM Sustainability Carnival (Virtual), PRME 2021	Feb 11 th & 12 th , 2021

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PAPER PUBLICATIONS:

Faculty Name	Paper Title	Journal details
Dr. Jaison Jacob	Exploration of Beamforming Approach to Enhance the Detection Rate of Underwater Targets in Distributed Multiple Sensor Systems	Smart Science, Taylor & Francis publication
Dr. Jobin. K. Antony	Dual-Band Multi-Port Rectenna For RF Energy Harvesting	Progress In Electromagnetic Research C Vol 107, 2020
Dr. Rithu James, Ms. Harsha A	Mixed Noise Removal by Processing of Patches- Proceedings of Engineering and Technology Innovation	Proceeding of Engineering and Technology Innovation
Dr. V S Jayanthi	Design of Low Power Speech Processor-Based Cochlear Implants Using Modified FIR Filter with Variable Frequency Mapping	Journal of Circuits, Systems and Computers
Dr. Jisa David	Discriminating Flash Crowds from DDoS attack using efficient thresholding algorithm	Journal of Parallel and Distributed Computing 152 (2021) 709 - 87
Dr. Susan Dominic	Joint Resource Block and Power Allocation through Distributed Learning for Energy Efficient Underlay D2d Communication with Rate Guarantee	Computer Communications, Volume 159, 1 June 2020, Pages 26-36
Ms. Anila Kuriakose	Simulation and Analysis of Realistic Human Motion Micro-Doppler Signatures in Through-Wall Radar	4th International Conference on Electronics, Communication and Aerospace Technology (ICECA), Coimbatore, 2020, pp. 1546-1552
	Improved High Gain Vivaldi Antenna Design for Through-wall Radar Applications	17th International Symposium on Antennas & Propagation (APSYM), December 2020 (IEEE)
Ms. Neethu Radha Gopan	A Hybrid Fusion Based Algorithm for Underwater Image Enhancement using Fog Aware Density Evaluator and Mean Saturation	4th International Conference on Innovative Computing and Communication (ICICC-2021), organized by Shaheed Sukhdev College of Business Studies, University of Delhi, New Delhi, India in association with National Institute of Technology Patna, India and University of Valladolid, Spain

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RESEARCH GROUP ACTIVITIES:

Sl no	Programs	Date	Handled by	Participants
ACTIVITIES DONE				
1	Communication Research Group: Talk on "Research Proposal Writing"	9 th March, 2021	Mr. Vishnu Sankar, Assistant Professor in Mechanical Engineering Department, RSET	ECE faculty members

Session by Mr. Vishnu Sankar on "Research Proposal Writing"

