

ECE Newsletter Aug 2020

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. During these testing times of COVID pandemic our regular academic activities were a challenge, but we managed to keep this remain unaffected as per schedule due to the relentless efforts of the teaching faculty, the support staff as well as our beloved students. I sincerely appreciate the support extended by each one during these testing times and take this opportunity to wish everyone safe and protected wellbeing with your dear ones.

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 (internal):
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:
Mrs. Jisa David

Upcoming Activities
Events:
Ms. Deepthy G S

Mentoring Activities:
Ms. Preethi Bhaskaran

Alumni Activities:
Mr. Bonifus P L

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PAPER PUBLICATIONS:

Faculty Name	Paper Title	Journal details
Dr. Sabna N	Deep Signature ID: CNN and SNN algorithms in Signature Identification,	International Journal for Research in Engineering Application & Management (IJREAM), ISSN: 2454-9150, Vol-06, Issue-05, Aug 2020
Mr.Dhanesh M S	Indoor Localization based on Ultra-Wide Band using Deca-Wav	International Research Journal of Engineering and Technology (IRJET) Volume: 07 Issue: 06 June 2020
	A Comparative Study on the Diagnosis of Skin Cancer using different Models in Deep Learning	International Journal of Science and Research (IJSR) Volume 9 Issue 6, June 2020 ISSN: 2319-7064
Ms.S.Sanathi Jabarani	American sign language to audio conversion using CNN in python and website creation	International Journal of Engineering and Techniques (IJET). ISSN:2395-1303,Volume 6 , Issue-5, August 2020

ACHIEVEMENTS:

Event	Details	Faculty Name	Duration	University/Institute
Coursera	AI for Everyone	Ms. Maleeha Abdul Azeez	4 weeks	deeplearning.ai
	Introduction to Electronics	Ms. Maleeha Abdul Azeez, Ms. Mariya Vincent	7 Weeks, 11th Jun 2020	Georgia Institute of Technology
	Introduction to Practical Deep Learning	Ms. Maleeha Abdul Azeez	6 weeks	Intel
	Machine Learning for All	Ms. Maleeha Abdul Azeez	4 weeks	University of London
FDP	Deep Learning Unfolded 2020	Mr. Dhanesh M. S., Mr. Naveen N., Ms Ramitha	13th to 17th Jul 2020	KPR Institute of Engineering and Technology

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		Rajesh, Mr. Abhishek Viswakumar, Mr. Anoop Thomas, Dr. Jaison Jacob, Ms. Neethu Radha Gopan, Mr. Kiran K A, Dr. Sabna N, Mr. Naveen N., Ms. Sherry Ann Sacharias, Dr. Simi Zerine Sleeba, Ms. S. Santhi Jabarani, Ms. Tressa Michael, Ms. Rinju Mariam Rolly		
	Robotics and Automation VIT Chennai	Ms. Maleeha Abdul Azeez, Mr. Rony Antony P.	13th to 18th Jul 2020	VIT Chennai
	Deep Learning - Models and Applications	Mr. Naveen N.	20th to 21st Jul 2020	SSN College of Engineering
	Digital Design - The mission impossible!		20th to 24th Jul 2020	Saveetha Engineering College
	Control System Application with Matlab Session		27th to 31st Jul 2020	RSET
	Simulation and Modeling of Data Communications & Networks		27th to 31st Jul 2020	Mahatma Gandhi Institute of Technology
	SAGEMATH		10th to 14th Aug- 2020	Amal Jyothi Engineering College
	Mathematics for Data Science		Ms. Maleeha Abdul Azeez	5 days, 10-Aug- 2020 to 14-Aug- 2020
FDP	BIOMATERIALS, BIODEVICES & MEDICAL IMAGING PROCESSES	Ms. Neethu Radha Gopan, Ms. Anila Kuriakose, Mr. Bonifus P L, Ms. Sherry Ann Sacharias	10 th to 14 th Aug- 2020	RSET
	Emerging Research Trends in VLSI, MEMS, and Signal Processing	Mr. Naveen N	10 th to 13 th Aug- 2020	Saintgits

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	Advancement in Communication Engineering Technologies with Simulation Tools	Ms. S. Santhi Jabarani, Ms. Tressa Michael	1 st to 5 th Jul 2020	Vishnu Institute of Technology
	Current Trends in Electronics & Communication	Mr. Dhanesh M. S	21 st to 25 th Aug 2020	Younus College of Engineering
	Recent trends in Communication Technologies	Dr. Sabna N, Ms. Deepthy G.S., Mr. Naveen N	10 th to 14 th Aug-2020	Bannari Amman Institute of Technology
International Webinar	Industrial IoT & Industry 4.0	Ms. Deepthy G S	10 th Aug-2020	RSET
STTP	Artificial Intelligence in Healthcare	Mr. Naveen N.	16 th to 22 nd Jul-2020	Kumaraguru College of Technology
	Data Analytics and machine learning	Mr. Dhanesh M. S, Mr. Naveen N., Ms. Neethu Radha Gopan, Ms. Swapna Davies, Ms. Maleeha Abdul Azeez	3 rd to 8 th Aug-2020	AICTE, Amal Jyothi College of Engineering
	Image Forensics	Dr. Sabna N	27 th Jul to 1 st Aug 2020	CUSAT and THDC, Tehri
Webinar	Big Data Analytics	Mr. Naveen N.	27 th Jul to 1 st Aug 2020	Saranathan College of Engineering
	High Performance Intelligent Real Time Embedded System Design		3 rd to 8 th Aug-2020	RMK Engineering College
	Reliability Maintainability & Quality Issues in Process Industries		4 th to 8 th Aug-2020	National Institute of Technology Jalandhar
	DeepLearning & its application using Tensor Flow & Keras		5 th Sep to 11 th Sep 2020	RMK Engineering College
	VLSI SoC Design using open source EDA tools	Mr. Bonifus P L, Mr. Rony Antony P.	4th Jul 2020	PSG Institute of Technology & Applied Research, Coimbatore
	Applied Artificial Intelligence	Mr. Abhishek Viswakumar	8th Jul 2020	PSG Institute of Technology & Applied Reserch
	Innovation in Antenna Design & Analysis	Ms. Mariya Vincent,	9th Jul 2020	Altair India

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		Ms. Sherry Ann Sacharias		
	Redefining and Reassessing Value Proposition in Technical Education in a Post-Pandemic Era	Mr. Naveen N.	15th to 16th Jul 2020	RSET
	Ambient Intelligence: Convergence of Technologies for Smart Living		20th Jul 2020	MIR LABS USA
	Granular Mining in Video Analytics		20th Jul 2020	MIR LABS USA
	Let's See, How Computers See! (A Gentle Intro to Computer Vision)		20th Jul 2020	Sreepathy Institute of Management & Technology
	Intelligent Data Mining		21st Jul 2020	MIR LABS USA
	Fundamentals of Reinforcement Learning		22nd Jul 2020	MIR LABS USA
	Mobile Robotics from Path Planning to Control		22nd Jul 2020	University College of Engineering, TVM
	Technology and Innovation 2020: Decentralized Machine Learning Blockchain Platform(E-Chain)		22nd Jul 2020	University College of Engineering, TVM
Webinar	3D printing: Trends and Opportunities		Mr. Naveen N.	23rd Jul 2020
	Cognitive Radios: How to be catapulted towards 5G and beyond	23rd Jul 2020		University College of Engineering, TVM
	Dive into Big Data (A Basic Session on Big Data)	23rd Jul 2020		Sreepathy Institute of Management & Technology
	Linear Algebra for Machine Learning	23rd Jul 2020		MIR LABS USA
	Biomedical Instrumentation: Past, Present and Future	Mr. Naveen N.	24th Jul 2020	University College of Engineering, TVM
	Digital transformation: Transforming the new Era		24th Jul 2020	University College of Engineering, TVM
	Exploring Indian Space Technology, Missions and Engineering Roles		24th Jul 2020	Amal Jyothi College of Engineering
	CRYPTOCURRENCY: IMPACT ON WORLD ECONOMY		25th Jul 2020	Jyothi Engineering College

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	Light to Data Science (Overview of Data Science)		25th Jul 2020	Sreepathy Institute of Management & Technology
	SOFTWARE DESIGN ASPECTS OF WLAN ACCESS POINT		25th Jul 2020	IETE Chennai Chapter
	The study of end of life vehicles - the mode of sustainable development		25th Jul 2020	University College of Engineering, TVM
	How to become Employable under the Current Indian Scenario		26th Jul 2020	Sreepathy Institute of Management & Technology
	Industrial Automation		27th Jul 2020	RSET
	TIPS TO CRACK CAMPUS RECRUITMENT		27th Jul 2020	Jyothi Engineering College
	What Awaits a Fresher Abroad?		30th Jul 2020	Sreepathy Institute of Management & Technology
	Introduction to Image Processing		5th Aug 2020	Jyothi Engineering College
	Exploring a world full of opportunities		13th Aug 2020	RSET
Webinar	Data Science & AI	Mr. Naveen N.	18th to 20th Jul 2020	IIT Chennai.
	To Gain a Greater Appreciation for Instrumentation	Mr. Naveen N., Ms. Jasmin Sebastin	16th Jul 2020	RSET
	Making Decisions - A Game Theoretic Approach RSET	Mr. Naveen N., Mr. Dhanesh M. S., Ms. Swapna Davies	18th Jul 2020	RSET
	E Readiness by Educational institutions during COVID-19 RSET	Mr. Naveen N., Ms. Jasmin Sebastin	21st Jul 2020	RSET
	FDSOI Applications for Advanced Architectures	Mr. Naveen N., Mr Anoop Thomas, Mr. Abhishek Viswakumar, Mr. Dhanesh M. S., Dr. Jaison Jacob, Dr. Jobin K. Antony, Ms. Maleeha Abdul	24th Jul 2020	RSET

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		Azeez, Ms. Neethu Radha Gopan, Dr. Sabna N, Ms. Sherry Ann Sacharias, Dr. Sreekumar G., Mr. Kiran K A, Ms. Anila Kuriakose, Mr. Bonifus P L, Ms. Swapna Davies		
	5G End to End Technology RSET	Dr. Jaison Jacob, Mr. Abhishek Viswakumar, Mr. Naveen N, Ms. Deepthy G S, Ms. Anila Kuriakose	14th Aug 2020	RSET
	Accelerate Early Design Verification for faster Time to Market	Mr. Kiran K A	25th Jul 2020	Mentor Graphics
	EDUCATION 4.0 - National Level Online Workshop on ICT enabled Teaching & Learning - Opportunities and Challenges	Mr. Kiran K A, Mr. Bonifus P L, Dr. Jaison Jacob, Ms. S. Santhi Jabarani	6th to 12th Jul 2020	RSET, Rajagiri Hospital, Internet security India, Cyber security club
	Block Level Design using IP Integrator in Xilinx Vivado	Dr. Simi Zerine Sleeba	26th Jul 2020	CoreEL Technologies and Xilinx

Event	Details	Faculty Name	Duration	University/Institute
Webinar	Industrial IoT & Industry 4.0 RSET	Dr. Simi Zerine Sleeba, Mr. Naveen N., Ms. Deepthy G S	10th Aug-2020	RSET
	Innovation: What, Why and How	Ms. Maleeha Abdul Azeez	19th Jul 2020	IEEE Bangalore Section & IEEE India Council
	Autonomous Robots in Industrial Applications		25th Jul 2020	VIT Chennai
	Wireless Modeling Towards 5G	Ms. Deepthy G S	19 th & 20 th Aug 2020	PSG Institute of Technology & Applied Research, Coimbatore
	Interactive Tools for Effective Online Classes		16 th Aug 2020	RSET

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	Python for machine learning	Ms. Tressa Michael	11 th Jul to 11 th Aug 2020	IITR
	Artificial Intelligence & Model-Based with MatLab		25 th & 26 th July 2020	Chennai Institute of Technology
	Evolution of Transformers Hands on Text Generation using GPT2		23 rd Jul 2020	RSET

Event	Details	Faculty Name	Duration	University/Institute
Workshops	EDUCATION 4.0 - National Level Online Workshop on ICT enabled Teaching & Learning - Opportunities and Challenges RSET, Rajagiri Hospital, Internet security India, Cyber security club	Mr. Kiran K A, Mr. Bonifus P L, Dr. Jaison Jacob, Ms. S. Santhi Jabarani, Ms. Rinju Mariam Rolly	7 days, 06-07-2020 to 12-07-2020	RSET, Rajagiri Hospital, Internet security India, Cyber security club
	Data Science & AI	Mr. Naveen N	18-07-2020 to 20-07-2020	IIT Madras
	SWRO, SCRO & SRO Incorporating Universal Human Values in Technical Education (An AICTE Initiative)	Ms. Harsha A., Dr. Rithu James	5 days, 18-07-2020 to 22-07-2020	AICTE
	Introductory Concepts of Machine Learning	Ms. Maleeha Abdul Azeez	4 days, 27-07-2020 to 30-07-2020	IEEE Kerala RAS Chapter & RAS Chapter, IEEE GEC Barton Hill

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Event	Details	Faculty Name	Duration	University/Institute
Webinar	"E Readiness by Educational Institutions during CoVID – 19"	Mr. Anoop Thomas	21 st July 2020	Dept. of CSE & IT, RSET
FDP	Electric and Hybrid Vehicle Engineering		5-day course, 3rd - 7th August 2020.	Haritha TechLogix in collaboration with Dept. of Electrical and Electronics Engineering and the IEEE PES SBC of RSET
Resource person	Online Tools & Platforms for Technical Laboratories - A practical perspective as a resource person during FDP on Tools & Platforms for Technology Enabled Learning		On 21-08-2020	Organized by Government Women's Polytechnic College Kottakkal.
International Webinar	Dealing with Uncertainties in Data Processing: from Probabilistic and Interval Uncertainty to Combination of Different Approaches, with Application to Geoinformatics, Bioinformatics, and Engineering		July 30 2020	Prof. Dr. Vladik Kreinovich, University of Texas at El Paso, USA
Coursera	Introduction to self-driving cars		06/07/2020	University of Toronto

TECHNICAL STAFF TRAINING:

Sl.no.	Program	Duration	Organised by	Venue
Initiated				
1	C Programming	1 st to 10 th Jul 2020, 21 Aug 2020	Mr. Arun Kumar	ARC
2	PSPICE	24 th to 28 th Aug 2020	Mr. Jiju K.Mathew	ARC
Planned				
1	Introduction to Python	7 th to 10 th Sep 2020	Mr. Ginjith John	ARC

STUDENT ACTIVITIES:

Sl.No	Name of student	Paper Title	Details	Date
Paper Publication				
1	Shehzad Ibrahim K. M., Rahul Xavier, Sanjay Stephen, Sam Stephen Paulson	"Deep Signature ID: CNN and SNN algorithms in Signature Identification"	International Journal for Research in Engineering Application & Management (IJREAM), ISSN: 2454-9150, Vol-06, Issue-05	1 st Aug 2020
2	Alisa Magdeline Rodrigues, Alphonsa Merlin Roy, Amrita Elsa Vettiyl, Caroline Baby Joseph	"American sign language to audio conversion using CNN in python and website creation"	International Journal of Engineering and Techniques (IJET), ISSN:2395-1303, Volume 6 ,Issue-5	August 2020

RESEARCH GROUP ACTIVITIES:

Sino	Programs	Date	Handled by	Organized by
1	Webinar on 5G end to end technology	14 th Aug 2020	Mohit Asrani Technical Lead & Scrum Master at Nokia Chennai	Communication research group
2	Simulation Study of Human Micro-Doppler Signature in Through Wall Radar	21 st Aug 2020	Ms. Anila Kuriakose	Signal Processing research group
3	International Webinar on Industrial IoT & Industry 4.0	10 th Aug 2020	Dr. Hudyjaya Siswoyo, Senior Lecturer, Swinburne University, Malaysia	VLSI research group
4	CADENCE Training for ECE students using remote access. (Coordinators : Mr. Anoop Thomas & Mr. Nitheesh Kurian)	5 th Aug 2020 to 12 th Aug 2020	Dr. Jobin K Antony, Mr.Rony Antony, Mr. Kiran K A	VLSI research group

Research group activities



CADENCE Training for ECE students



CADENCE Training for ECE students

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Technical Staff Training Programs

