Newsletter Jul 2020

RSET
RAJAGIRI SCHOOL OF
ENGINEERING & TECHNOLOGY

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:

Communication Systems

Research Groups

VLSI & Embedded Systems

Signal Processing

About the Department

The Dept ECE at RSET was started in year 2001 with B. Tech program in Electronics and Communication Engineering.

The department currently offers B.Tech. program in ECE with an intake of 180 students in 3 batches and two M. Tech programs, viz. VLSI and Embedded Systems with an intake of 24 students and Communication Engineering with an intake of 18 students. The department is currently approved as a research center under KTU.

The department keeps pace with the technological trends in the Electronics and Communication industry, with a well-organized and updated course syllabus prescribed as per the industry/profession requirements.

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VLSI & Embedded Systems
- Cadence Training for Final year and Pre Final year students

Communication Systems
- MODROB funding
- Lab Development,Possible short term courses
- Activities for department activity calendar

Signal Processing
- MODROB funding
- Industrial Collaboration
- Lab utilisation and renovation

Event	Topic	Co ordinators
EVENTS CONDUCTED		
Webinar	Webinar for students on" Stop Worrying! Start Living" by S. Saravana Prabhu	Dr. Jayanthi V S & Ms. Preethi B
	Webinar for students on "Know you…New You!" by S. Saravana Prabhu	Dr. Jayanthi V S & Ms. Preethi B
	"FDSOI Applications for Advanced Architectures" by Dr. Arun Ashok, Senior Research Engineer,Juliech Research Center, Germany	Alumni Activity
	Webinar for S4 ECE, by Mr.Joe Shannel Aruja,SoC Design Engineer-Intel India Pvt ltd	Ms. Preethi B
EVENTS SCHEDULED		
Short term course	" MATLAB for Signal Processing" for S5 - ECE Students.	Ms Anila, Mr.Nitheesh, Ms.Neethu
Research Seminar	Signal Processing Research group	Ms. Anila

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ACHIEVEMENTS:

Slno	Programs	Date	Organised by	Participants
1	Three Day National FDP on Pedagogy to "Panic-Gogy" - Technology to recover back	11 - 13th Jun 2020	Amal Jyothi College of Engg, Kottayam, Mar Basilious Institute of Technology and Science, Kothamangalam & Marian College, Kuttikkanam	Mr. Abhishek Viswakumar, Ms. Anila Kuriakose, Ms. Deepthy G. S., Mr. Dhanesh M. S., Ms. Maleeha Abdul Azeez, Ms. Neethu Radha Gopan, Dr. Sabna N
2	FDP on Emerging Technology Trends in 4th Industrial Revolution world	22 - 26th Jun 2020		Ms Ramitha Rajesh, Ms. Rinju Mariam Rolly
3	AI for Smart Healthcare Systems,	-	ABE Semiconductors, Chennai	Mr. Abhishek Viswakumar, Ms Ramitha Rajesh, Mr. Rony Antony P.
4	Introduction to EV in India,	-	IEEE PSGI	Mr. Abhishek Viswakuma, Mr. Bonifus P L, Ms. Mariya Vincent, Ms. Rinju Mariam Rolly, Ms. Shyama Sreekumar
5	Evolution of Transformers Hands on Text Generation using GPT2	-	Dept.of CSE, RSET	Mr. Abhishek Viswakumar, Mr. Dhanesh M. S.
6	Opportunities and Challenges in Solar Energy Usage	-	IEEE PSGI	Mr. Abhishek Viswakumar, Mr. Dhanesh M. S., Ms. Mariya Vincent, Ms. Rinju Mariam Rolly, Ms. Shyama Sreekumar,

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Event	Details	Faculty Name	Duration	University/Institute
Coursera	Programming for Everybody (Getting Started with Python)	Ms. Neethu Radha Gopan, Dr. Jaison Jacob, Ms. Mariya Vincent, Ms. Sherry Ann Sacharias, Ms.Ramita Rajesh	7 weeks	University of Michigan
	Data Management for Clinical Research	Ms. Harsha A., Dr. Rithu James	6 weeks	Vanderbilt University
	Cyber Threats and Attack Vectors	Ms. Jisa David	5 weeks	University of Colorado
	Cybersecurity and the Internet of Things	Ms. Mariya Vincent, Dr. Sabna N	4 weeks	University of Michigan
	Python Data Structures	Ms. Shyama Sreekumar, Ms. Sherry Ann Sacharias, Mr. Kiran K A	4 weeks	University of Michigan
	Machine learning for all	Ms. Shyama Sreekumar	4 weeks	
	Python Basics	Mr. Abhishek Viswakumar, Ms. Rinju Mariam Rolly	4 weeks	University of Michigan
	Network Security & Database Vulnerabilities	Ms. Jisa David	4 weeks	IBM
	Wireless Communications for Everybody	Mr. Jaison Jacob	6 Week	Yonsei University
FDP	Pedagogy to "Panic-Gogy" Technology to recover back.	Mr. Abhishek Viswakumar, Ms. Anila Kuriakose, Ms. Deepthy G. S., Mr. Dhanesh M. S., Ms. Maleeha Abdul Azeez, Ms. Neethu Radha Gopan, Dr. Sabna N	11th -13th Jun 2020	Amal Jyothi, Mar Baselios, Marian College
	Emerging Technology Trends in 4th Industrial Revolution world	Ms Ramitha Rajesh, Ms. Rinju Mariam Rolly	22nd -26th Jun 2020	
	Artificial Intelligence and Machine Learning 5-May-2020 to 30-Jun-2020	Ms. Anila Kuriakose	5th May to 30th Jun 2020	Department of AEI, RSET
	Advancement in Communication Engineering Technologies with Simulation Tools	Mr. Abhishek Viswakumar, Mr. Kiran K A, Ms. Mariya Vincent, Mr. Naveen N., Ms. Jisa David, Ms. Shyama Sreekumar	1st -5th Jul 2020	Vishnu Institute of Technology , Bhimavarm , Andhra Pradesh
	Artificial Intelligence and Machine Learning	Ms. Anila Kuriakose	5th May to 30th Jun 2020	Department of AEI, RSET

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Event		Faculty Name	Duration	University/Institute
Webinar	The role of modified lead systems in Clinical Electrocardiography 1-Jun-2020	Ms. Deepthy G. S.	1st Jun 2020	Chennai Institute of Technology
	How to get Research grants from UGC, AICTE (Minor or Major Research Projects Application Process)	Ms. Deepthy G. S.	9th Jun 2020	MBITS & SMBS
	GHz to THz Antennas: Trends, Techniques and Next Generation Requirements in Wireless Communication	Ms. Rinju Mariam Rolly, Ms. Shyama Sreekumar	10th Jun 2020	Manipal University
	AI for Smart Healthcare Systems	Ms. Anila Kuriakose, Ms. Deepthy G. S., Ms. Jisa David, Ms. Mariya Vincent, Ms. Neethu Radha Gopan, Mr. Abhishek Viswakumar, Ms Ramitha Rajesh, Dr. Sabna N, Ms. Sherry Ann Sacharias, Ms. Shyama Sreekumar	17th Jun 2020	Kumaraguru College of Engineering and Technology ABE Semiconductors, Chennai
	Enhancing Effectiveness of Online Learning	Ms. Anila Kuriakose, Ms. Deepthy G. S., Mr. Dhanesh M. S., Ms. Maleeha Abdul Azeez	17th Jun 2020	Amal Jyothi College of Engineering Kottayam, Marian College Kuttikanam
	System Design Flow on Zynq using Vivado High Level Synthesis	Mr. Dhanesh M. S.	17th Jun 2020	CoreEL Technologies, Banglore
	Internet of Things: using MATLAB and Simulink	Ms. Mariya Vincent, Ms. Shyama Sreekumar	19th Jun 2020	CHARUSAT and MathWorks
	Yoga to Make you Healthy	Dr. Rithu James	21st Jun 2020	St. Paul's College Kalamassery
	Introduction to EV in India	Mr. Abhishek Viswakuma, Mr. Bonifus P L, Ms. Mariya Vincent, Ms. Rinju Mariam Rolly, Ms. Shyama Sreekumar	22nd Jun 2020	IEEE PSGI
	Evolution of Transformers Hands on Text Generation using GPT2	Mr. Abhishek Viswakumar, Mr. Dhanesh M. S., Ms. Jisa David	23rd Jun 2020	Dept.of CSE, RSET

	Opportunities and Challenges in Solar Energy Usage	Mr. Abhishek Viswakumar, Mr. Dhanesh M. S., Ms. Mariya Vincent, Ms. Rinju Mariam Rolly, Ms. Shyama Sreekumar	23rd Jun 2020	IEEE PSGI
	Introduction to a Novel Auto-phase Selector with Built-in Electrical Protection in three Phase Supply	Mr. Abhishek Viswakumar, Mr. Dhanesh M. S., Ms. Mariya Vincent	24th Jun 2020	IEEE PSGI
	Machine Learning in RF devices	Mr. Abhishek Viswakumar, Mr. Dhanesh M. S., Ms. Mariya Vincent, Ms. Sherry Ann Sacharias, Ms. Shyama Sreekumar,	25th Jun 2020	IEEE PSGI
	AI and modelbased Design & Teaching with MATLAB	Ms. Jisa David	25th,26th Jun 2020	Chennai Institute of Technology
	Data Driven New Biology	Mr. Abhishek Viswakumar, Mr. Dhanesh M. S., Ms. Sherry Ann Sacharias	26th Jun 2020	IEEE PSGI
	Health, Fitness & Wellbeing	Mr. Naveen N.	26th,27th Jun 2020	RSET
	Xilinx Vivado	Dr. Simi Zerine Sleeba	26th Jun 2020	CoreEL Technologies and Xilinx
	Communicative English Skills for Engineering Students and Faculty	Mr. Abhishek Viswakumar	26th to 30th Jun 2020	MBITS in association with ASAP & TCS
Seminar	RBCDSAIs International Summit on Data Science and AI	Mr. Anoop Thomas	18th to 20th Jun 2020	IIT, Madras
Workshop	Patent Searching, Drafting and Filing	Mrs. Deepthy G. S., Mr. Naveen N.	29th May to 2nd Jun 2020	Turnip Innovations and Exilyze Intellectual Services
	Online course on Exam reforms	Dr. Rithu James	29th May to 2nd Jun 2020	AICTE
	ICT enabled Teaching and Learning. FDSOI Application for Advanced Architectures	Dr. Jaison Jacob	6th to 12th Jul, 24th Jul 2020	RSET
	FDP on Deep Learning unfolded-2020	Dr. Jaison Jacob	13th to 17th Jul 2020	KPR institute of Engineering & Technology

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TECHNICAL STAFF TRAINING:

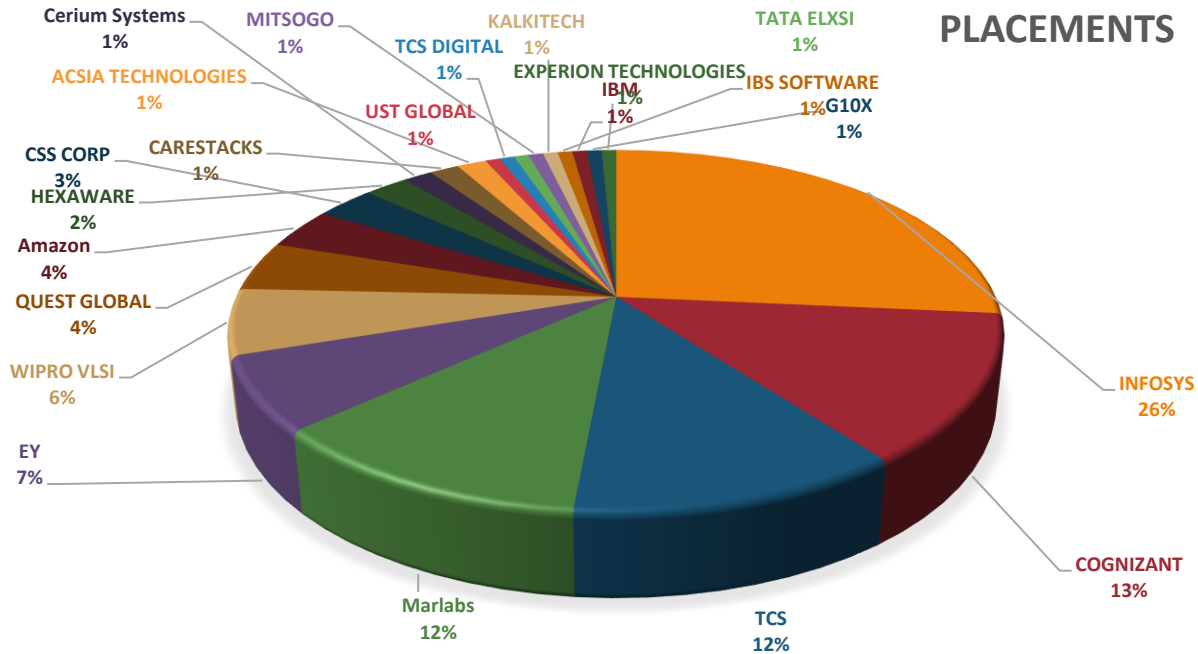| Slno	Programs	Duration	Organised By	Venue
INITIATED				
1	C programming	One Week	Arun Kumar	ARC
PLANNED				
1	PSPICE		Jiju K Mathew	ARC
2	Eagle		Shaibu Kurian	Hardware Lab
3	PCB Generation Soldering Practice		Jinoy Abraham, Jithin T, Saju Varghese, Roy K.T	PCB lab
4	Introduction to Python		Ginjith	Shockley

STUDENT ACTIVITIES:

Sl.No	Name of student	Paper Title	Details	Date
Paper Publications				
1	Angel Ann G Yesudasan	SAODV Protocol Based Cryptographic Technique for Automotive Cybersecurity	International e-Conference on Recent Trends in Electronics, Computing and Communication Engineering (ICRTECC), International Journal of Scientific Research in Science, Engineering and Technology(IJSRSET)	15 June 2020
2	Gokul Raj	Indoor Localization based on Ultra Wide Band using Deca-Wave	International Research Journal of Engineering and Technology (IRJET) e-ISSN: 2395-0056 Volume: 07 Issue: 06 June 2020	10 June 2020
3	Surya S Kumar	A Comparative Study on the Diagnosis of Skin Cancer using different Models in Deep Learning	International Journal of Science and Research (IJSR) ISSN: 2319-7064 volume 9 Issue 6 June 2020	14 June 2020
4	Faba Sosamma Abraham	A Study on Smart Parking Assistance	International Journal of Science and Research (IJSR) ISSN: 2319-7064 volume 9 Issue 6 June 2020	14 June 20200
5	Anjitha K.Nair	Modeling the efficiency of SCR Catalyst in the exhaust system	International Journal of Scientific & Engineering Research, Volume 11, Issue 7, July-2020 ISSN 2229-5518	26 July 2020

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STUDENT ACTIVITIES CONTD...

Sl.No	Paper Title	Details	Date
Co-Curricular			
1	Varun Pillai of S2 EC C	International Astronomy & Astrophysics Competition of 2020	secured Bronze honour in the final round	27 July 2020
2	Adithya S M of S2 ECE Alpha	Idea Pitching Competition as a part of virtual Tech-fest ORION conducted by IEEE PES Women in Power Community in association with IEEE PES Kerala Chapter on 19th-22nd June 2020	secured Second position	19 June 2020

PLACEMENTS

- Cerium Systems 1%
- MITSOGO 1%
- TCS DIGITAL 1%
- KALKITECH 1%
- TATA ELXSI 1%
- ACSIA TECHNOLOGIES 1%
- EXPERION TECHNOLOGIES 1%
- IBM 1%
- IBS SOFTWARE 1%
- G10X 1%
- UST GLOBAL 1%
- CSS CORP 3%
- CARESTACKS 1%
- HEXAWARE 2%
- Amazon 4%
- QUEST GLOBAL 4%
- WIPRO VLSI 6%
- EY 7%
- Marlabs 12%
- TCS 12%
- INFOSYS 26%
- COGNIZANT 13%

ONLINE COURSES ATTENDED BY STUDENT:

Courses attended	University/ Online Resource	No.of Participants
Programming for everybody (getting started with python)	Coursera	15
AI For Everyone		6
Introduction to Artificial Intelligence		5
Cloud computing basics		3
Python data structures		3
Data science and math skill	Dale university	3
AI For Everyone	deeplearning.ai private	4
Internship on FPGA Design and Verification	Sandeepani School of Embedded System Design	4
Electric Power Systems	University at Buffalo	4
Programming for everybody (getting started with python)	University of Michigan	4

SHORT TERM COURSES:

Slno	Programs	Duration	Conducted By	Organised By
INITIATED				
1	Tina Ti Workshop for S3 ECE students	28th to 29th Jul 2020	Ms. Jisa David	Dr. Simi Zerine Sleeba
PLANNED				
1	Python Programming	18th to 20th Aug 2020	Binu A.	Dr. Simi Zerine Sleeba
2	Cadence Workshop for S7 ECE students		Mr.Kiran K.A and Mr.Nitheesh Kurian	Dr. Simi Zerine Sleeba