Vel Tech
Rangarajan Dr. Sagunthala
R&D Institute of Science and Technology
(Deemed to be University Estd. u/s 3 of UGC Act, 1956)

Department of Electronics and Communication Engineering

Academic Year 2021-22 | July 2021 to December 2021

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News Bite

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Message

This issue of NEWS BITE highlights the academic, research, and co-curricular achievements of the Department of Electronics and Communication Engineering. The department has organized several knowledge-enriching programmes, including FDPs on “Research Challenges in Cognitive Radio Networks” and “RF Applications using RFSoC Devices”, along with a workshop on “Smart System Design for Industrial IoT Applications using LabVIEW” and a webinar on MATLAB Grader. Students and faculty have actively contributed through technical events, certifications, research activities, and international internships in reputed universities in Canada. The department also conducted various one-credit courses to enhance technical skills and industry readiness. An excellent placement record has been achieved, with students securing positions in leading companies such as Microchip Technology, Amadeus Labs, Accenture, Cognizant, and Wipro. Continued efforts towards academic excellence, research innovation, and industry collaboration are evident through these accomplishments.

Prof. Dr. V. Jaya Shankar
Dean - SoEC

Vision of the Department:

To be a centre of academic excellence through quality education and cutting-edge research in the diversified fields of electronics and communication engineering to meet the global challenges and produce high quality professionals.

Mission of the Department:

M1: To enrich the knowledge of graduate engineers for global requirements by promoting quality education through innovative pedagogical practices.

M2: To create an ambience of academic excellence by engaging in cutting-edge research and undertaking collaborative projects with academia and industry.

M3: To develop competence by inculcating human and moral values with leadership and professional skills.

Programme Educational Objectives:

PEO1: Our graduates will have in depth knowledge in mathematical and engineering concepts required to solve engineering problems in the analysis and design of Electronics and Communication Devices and Systems.

PEO2: Our graduates will have the expertise to conceive, design, implement and operate the Engineering products for the societal and environmental problems.

PEO3: Our graduates will have adequate technical skills and leadership qualities in the development of innovative solutions required in core and allied industries.

PEO4: Our graduates will adapt to multidisciplinary environment using evolving technologies and achieve professional competence through higher education, research and lifelong learning.

PEO5: Our graduates will communicate effectively, practice and promote ethical,environmental, health and safety standards in their profession.

Department Highlights

Six days FDP on **“Research Challenges in Cognitive Radio Networks”** - 20.09.2021 to 25.09.2021

The Department of Electronics and Communication Engineering successfully organized a six-day Faculty Development Programme (FDP) on “**Research Challenges in Cognitive Radio Networks”** from 20th September 2021 to 25th September 2021. The programme aimed to provide in-depth knowledge on emerging trends, research issues, and practical challenges in cognitive radio and wireless communication systems.

The FDP witnessed enthusiastic participation from faculty members, research scholars, and students from various institutions. The sessions were delivered by eminent academicians and industry experts, including Dr. Rajalakshmi Kishore from The National Institute of Engineering, Mysore, Mrs. Chetinya Vani Vivekanandan from American Professor, N K Engineering College, and other distinguished speakers. The FDP provided a valuable platform for participants to enhance their research capabilities and stay updated with advancements in cognitive radio technologies.

Department Highlights

Five days FDP on **“RF Applications using RFSoC Devices”** - 22.11.2021 to 26.11.2021

The Department of Electronics and Communication Engineering successfully organized a Five-Day Faculty Development Programme on “**RF Applications using RFSoC Devices**” from 22nd November 2021 to 26th November 2021. The programme aimed to provide in-depth knowledge on RF System-on-Chip (RFSoC) technology and its applications in modern communication systems. The FDP witnessed enthusiastic participation from faculty members and students.

The sessions were delivered by industry experts from Entuple Technologies and CoreEL Technologies, Bangalore, who shared valuable insights into current trends and practical challenges in RF applications. The programme covered key topics such as RF design concepts, signal processing techniques, and real-time implementation using RFSoC platforms. Interactive sessions and discussions enriched the learning experience of the participants. The FDP provided a valuable platform for participants to enhance their technical knowledge and bridge the gap between academia and industry in advanced communication technologies.

Department Highlights

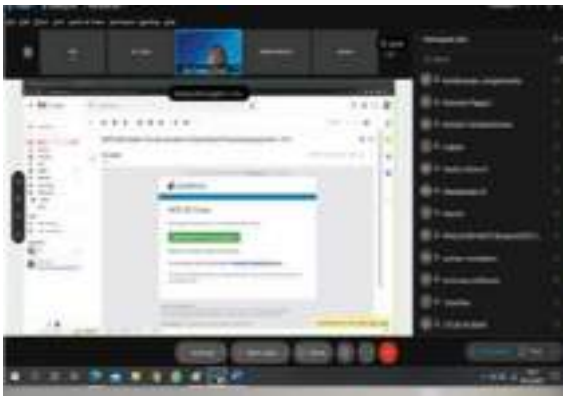
Three days workshop on **“Smart System Design for Industrial IoT Applications using LabVIEW”** - 12.08.2021 to 14.08.2021

The Department of Electronics and Communication Engineering successfully organized a Three-Day Workshop on “**Smart System Design for Industrial IoT Applications using LabVIEW**” from 12th August 2021 to 14th August 2021. The workshop aimed to provide insights into smart system design and the application of LabVIEW in Industrial IoT. The workshop witnessed enthusiastic participation from over 50 faculty members, students, and research scholars. The sessions were conducted in virtual mode through Google Meet and featured expert speakers who shared their knowledge and experience in IoT system development.

The event was organized in association with The Institution of Engineering and Technology (IET) and was coordinated effectively by the department. The workshop served as a valuable platform for participants to enhance their understanding of IoT technologies and encouraged innovation in smart system design.

Department Highlights

Webinar on **“Familiarizing on MATLAB Grader”** - 16.12.2021



The session was delivered by Dr. Debanand Singdeo from MathWorks India, who served as the resource person for the program. The session witnessed active participation from students and faculty members, providing valuable insights into modern teaching and evaluation methodologies using MATLAB Grader.

The objective of the session was to introduce participants to innovative academic tools that enhance learning efficiency and simplify the evaluation process. The speaker explained how MATLAB Grader can transform traditional teaching practices into a more interactive and technology-driven approach.

The session highlighted the transition from conventional manual grading methods to an automated evaluation system. Participants learned how the traditional process, which usually requires one to two weeks for feedback, can be replaced by instant auto-grading, significantly improving learning outcomes.

Student Achievements

The department provides different platform, for the students to participate in various technical fest, sports events, and cultural activities. In list of events our students participated and brought laurels to our department.

- Gaddipati Sri Harsha (VTU13898) has participated "Security Challenges in Cognitive Radio Networks" in Holycross Engineering College, 2021.
- Tadiparthi Vijay Ganesh (VTU14469) has presented paper in International Conference on Electronics and Sustainable Communication Systems conducted by Hindusthan Institute of Technology on August 2021.
- Kodakandla Karan Reddy (VTU11826) has received Nptel course certificate on "Introduction to Internet of Things" conducted by IIT Kharagpur.
- Kodakandla Karan Reddy (VTU11826) has received online course certificate on "Python and Machine Learning Fundamentals" from Perpect plan B Elearning Private Limited.
- Kodakandla Karan Reddy (VTU11826) has received online course certificate on "Introduction to cyber security" from Great Learning Academy.
- Nallapaneni Vamsi (VTU11648) has received online course certificate on "Python and Machine Learning Fundamentals" from Perpect plan B Elearning Private Limited.
- Nallapaneni Vamsi (VTU11648) has received online course certificate on "JAVA" from Skillup by Simplilearn.
- Kollipara Vamsi Krishna (VTU12133) , Bille Sai Varshith (VTU11102) , G S Krishna Babu (VTU11033) has published paper in Turkish Journal of Physiotherapy and Rehabilitation.
- Amruthavalli (VTU14615) , Sai Sudheer (VTU14649), Rajnikant Khuswaha (VTU13584) has presented International Conference on IPACT 2021, conducted by VIT Vellore.

Faculty Activities

- Mr.R.Prasanna receieved research grant from Naval Science & Technological Laboratory (NAL) and his research entitled Development of 3D printed flexible patch antennas for enhancement of communication range in UAV" for the year of 2021-2023. Research Grant Amount Rs. 28,02,600.

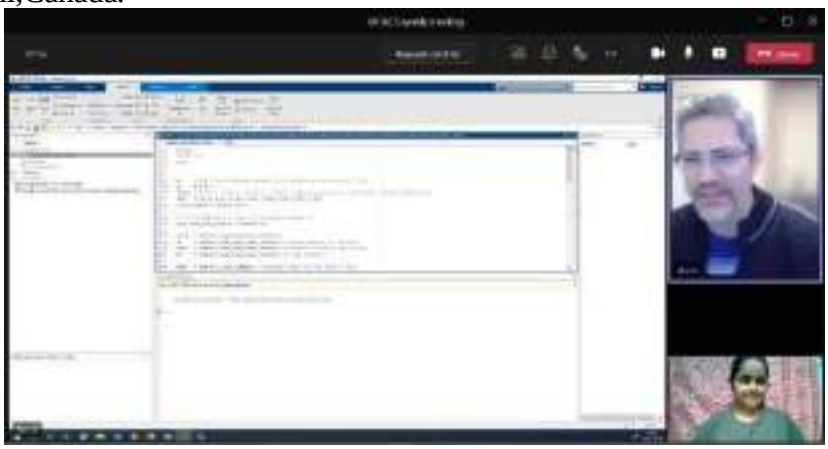
- Dr. Natarajan S completed Online Course on "CDIO 2021 Asian Regional Meeting" in Australian College of Kuwait from 26-10-2021 to 28-10-2021.
- Dr. Sasikala G completed Online Course on "4G Broadband LTE" in IEEE New York.
- Dr. Selwin Mich Priyadharson completed Online Course on "CDIO 2021 Asian Regional Meeting" in Australian College of Kuwait from 26-10-2021 to 28-10-2021.
- Dr. Shiyamala S completed Online Course on "CDIO 2021 Asian Regional Meeting" in Australian College of Kuwait from 26-10-2021 to 28-10-2021.
- Dr. Aloy Anuja Mary G completed Online Course on "4G Broadband LTE" in IEEE New York.
- Dr. Anandan P completed Online Course on "Innovation Ambassador Training" in MOE'S Innovation Cell and AICTE, New Delhi from 30-06-2021 to 30-07-2021.
- Dr. Sathyasri B completed Online Training Programme on "Biomedical Electronics and IOT in Health care" in NITTTR, Chennai from 12.07.2021 to 16.07.2021.
- Dr. Helina Rajini Suresh completed Short Term Training Program on "Python + MATLAB based Summer Research School on Convex Optimization for Machine Learning and 5G Wireless Technology" in IIT, Kanpurfrom 14.07.2021 to 27.07.2021.

- Dr. Kalpana Devi P Completed NPTEL on "Basics of Software Defined Radios and Practical Applications" in IIT, Roorkee between 15-07-2021 to 15-08-2021.

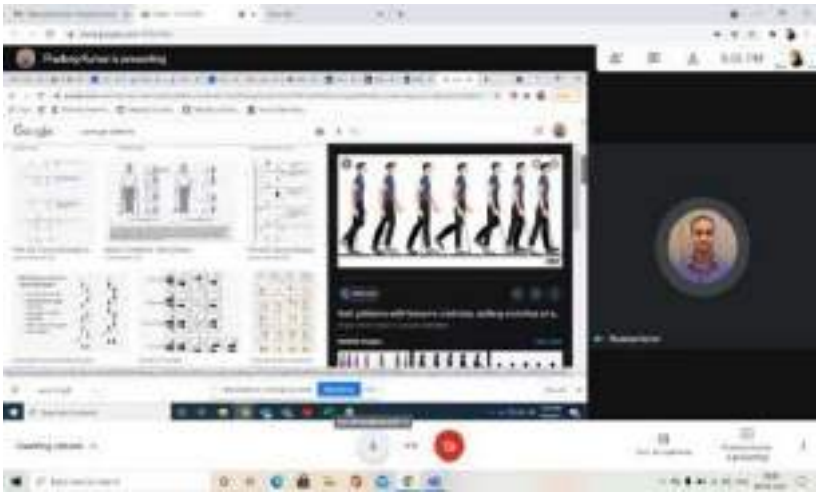
Industrial and Industry Internship

- Meda Kavya Nikhita (VTU14662) has gone internship entitled "**Signal Processing and Machine Learning Applications for Wearable and Mobile Technologies**" under Prof. Eric Scheme, Associate Professor, University of New Brunswick, Canada.

- Amruthavalli Archakam (VTU14615) has gone internship entitled "**Risk of fall analysis on different soil types using biomechanical model for visually impaired**" under Prof. Martin J D Otis, Professor, University of Quebec at Chicoutimi,Canada.



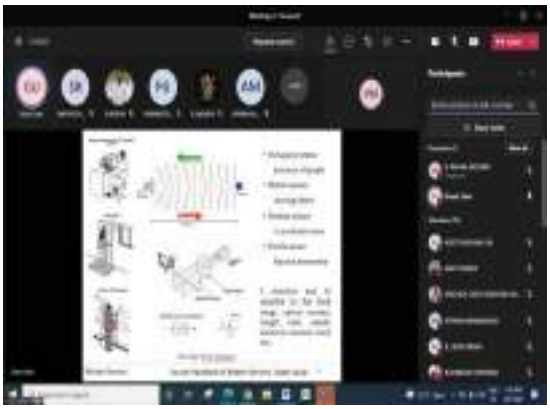
- Chitturi Phaneendra Kumar (VTU14144) has gone internship entitled **"Transfer of GPS data between the ECU's with SAE J1939"** under Prof. Ahmead Al Malahi, Professor, Dalhosie University, Halifax, Canada.



One Credit Courses

- Professor Mr. Saurabh Mandal taught one credit course on titled "**Software Defined Networking"** through online mode with active participants of 76.
- Professor Mr. Himanshu Kumar Haran taught one credit course on titled **"Cyber Security"** through online mode with active participants of 91.

- Professor Mr. Surya Teja Marella taught one credit course on titled **"Network Function Virtualization"** through online mode with active participants of 66.
- Professor Dr. Pandiyarasan Veluswamy taught one credit course on titled **"Micro Electro Mechanical Systems (MEMS)"** through online mode with active participants of 101.



One Credit Courses

- Professor Mr. Sandeep Shroff taught one credit course on titled **"Machine to Machine Communication"** through online mode with active participants of 94.

- Professor Mr. Anand Krishnan Iyer taught one credit course on titled **"Deep Learning"** through online mode with active participants of 88.

- Professor Mr. Ananthavelan taught one credit course on titled **"System On Chip"** through online mode with active participants of 101.
- Mr. Syed Misbah, Lead Data Scientist Evalueserve, Bengaluru taught one credit course on titled **"Data Science"** through online mode with active participants of 85.
- Mr. Balaji Balasubramanian, Assistant Consultant Tata Consultancy Services, Chennai taught one credit course on titled **"Current trends in Communication and Diagnostics in Automotive"** through online mode with active participants of 92.

Placement

- Keesari Soma Sekhar Reddy (VTU14995) who has placed in Microchip technology with CTC of 10.0 LPA
- Mani Nageswar Vakapalli (VTU12987) who has placed in Amadeus Lab with CTC of 9.32 LPA.
- Sri Sowmya Polampalli (VTU14347) who has placed in Schneider Electric with CTC of 9.32 LPA.

- Monish Kumar K (VTU12370), Murali Vikash Ganireddy (VTU14885) students has placed in Capgemini with CTC of 7.5 LPA.
- 23 students has placed in Capgemini with CTC of 4 LPA.

- Guntur Lalith Sai (VTU14286), Saradhi Ette (VTU14595), Abhinay Kotnani (VTU12173), Chikitha Kattekota (VTU 12182), Baby Sri Lakshmi Donelli (VTU11533), Pujith Perni (VTU 11101), DUDDU SAI MANAS (VTU13189), and Jaya Sai Pragjnay Addagarla (VTU12117) students has placed in Accenture with CTC of 6.5 LPA.
- 29 students has placed in Accenture with CTC of 4.5 LPA.

Placement

- Prudhvi Charan Kalva (VTU14165) Sujeet Singh has placed in Mitsogo with 26 LPA.

- Four students has placed in Aptean India with 5.5 LPA.

- Divya Sai Daparthi (VTU12981) has placed in Apisero with 5.1 LPA.

- Om Prakash Reddy Chejerla (VTU13204) has placed in Urjanet with 5.0 LPA.

- K Anil Kumar (VTU14935), Raushan Kumar Raj Kumar Singh (VTU14349), Praveen kumar (VTU14350) has placed in Cognizant with 4.75 LPA and rest 93 students placed with 4.75 LPA.

- Rohan Kumar Singh (VTU13204) has placed in Flatiron with 4.0 LPA.

- 15 students has placed in Wipro with 3.5 LPA.

- Eight students placed in Atos Global with 3.1 LPA.

- Eight students placed in Mu Sigma with 3.0 LPA.

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