



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

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Message



In this NEWS BITE, students and faculty are presented with a dynamic platform to showcase their accomplishments while staying aligned with the continuous progress of the department. It reflects the strong academic culture and the active involvement of students in technical, cultural, and professional activities both within and beyond the institution. The newsletter captures a wide spectrum of initiatives undertaken by the department, focusing on knowledge enrichment, advanced skill development, career readiness, industrial exposure, and meaningful social outreach programmes. Professional bodies such as IEEE and IETE, along with vibrant club activities, have played a crucial role in nurturing innovation, leadership, and teamwork among students. During this academic period, the department has demonstrated remarkable excellence by organizing a series of impactful workshops, seminars, faculty development programmes, and value-added courses designed to meet current industry demands. Faculty members have consistently upgraded their expertise through NPTEL and AICTE-certified programmes, strengthening the academic foundation of the department. Students have actively engaged in symposiums, hackathons, and interdisciplinary events that enhanced both their technical proficiency and soft skills. IEEE student chapters have conducted numerous professional activities, while students have gained global exposure through industry collaborations and international learning opportunities in emerging technologies. The department takes immense pride in the successful placement of a 472 students in reputed organizations, reflecting its unwavering commitment to quality education, innovation, and holistic development.

Dr. R. S. Valarmathi

Prof. & 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

The department offers a variety of platforms for the students to take part in numerous technical festivals, sporting competitions, and cultural events.

(ICSSTA 2023)

International Conference on
“Smart System Technologies and
Applications” 28.04.2023 to 29.04.2023





(ICSSTA 2023)





The International Conference on Smart System Technologies and Applications 2023 was organised by the Department of Electronics and Communication Engineering in association with IETE to promote the latest innovations in various fields of Engineering and Technology. The aim of SSTA 2023 was to provide a platform for researchers and professionals from academia and industry to create a flexible framework for defending, expounding, and sharing advancements in Electronics and Communication Systems. The conference provided opportunities for professionals to establish research relationships and to identify global partners for future collaboration.



Faculty Achievements



Dr. M. Valliammai

has received a funded project “Devising point-of-care diagnostic microchip biosensor for early diagnosis of cardiovascular disease ” of Rs 40,95,524 lakhs from DST Global Innovation & Technology Alliance.

Dr.G.Sasikala has awarded a patent with title “Implantable CPW Fed Folded Type Antenna At Mics Band For Biomedical Applications”.

Dr. P. Banupriya has published two patent with title “Pin Diode-based Frequency Reconfigurable Antenna For Wireless Applications” and “Deep Learning approach for Predicting Ocean Parameters Method To Transfer Electronic”.

Dr. G. Aloy Anuja Mary, Dr.B.Sathyasri, Dr. K. Aanandha Sarvanan and Dr N. Vignesh Prasanna has published a design patent with title “ IOT Based Printer”.

Dr. Dasari naga Vinod has published patent with title “Deep Learning approach for Predicting Ocean Parameters Method To Transfer Electronic”.

Dr.S.Shiyamala has published a patent with title “Design And Performance Of Charge-plasma-based Schottky-fet Cmos Circuit Ring Oscillator For High Density ICs”.

Dr.T.Kavitha has published a patent with title “Artificial Intelligence Enabled Zero Gravity Massage”.

Dr.D.David Neels Ponkumar has awarded and published a design patent with the “IoT Based Smart Robot for HVAC Duct Cleaning”, “IoT based Smart Wearable Personal health , activity and lifestyle tracking device”, “Mobile Application based Advertisement display for Brand development in Shopping mall using Internet of Things” and “AI based Network Intrusion Detection Device”.

Dr. A. Selwin Mich Priyadharon has published two patent with title “Adaptive Control Cascaded with Combustion Flame Images for Optimized Combustor of a Thermal Power Plant” and “A wearable device to assist blind and visually impaired people on indoor and outdoor Environments”.

Student Achievements

The department offers a variety of platforms for the students to take part in numerous technical festivals, sporting competitions, and cultural events. Our students took part in the following events and brought honour to our department.



Gadde Mukesh Narayana (VTU18005) and Prativa Oli (VTU18731) has shortlisted in IEEE MAS Student Project Finding.

“Project Expo & Award Ceremony” at B.M. Birla Planetarium, Chennai on 20.05.2023.



A Laxmi Aditya(19178), M Saikumar (19254), T. Vivek (18105), K Hari(15905), M Purna Venkata Naga Sai Kiran (17323),N Dileep (19376), V Siva reddy (19420), B Venkateswara Reddy (20824), G Sidharatha (21071), P Jaswanth (21236) has won 1 st prize in Kabaddi our annual sports day held Vel Tech University on 26.04.2023.



Student Achievements



M.Yashwanth Sai Yadav (13477), M Saivarun (16047), T. Vishnu (15771), V Siva reddy (20647), has won Runner up in Kabaddi held on Saveetha Engineering College.



J.Santhosh Babu (11801), B Sumanth (20843), has won Runner up in Circket held on Saveetha Engineering College.



Vinod Sana has won 5th place in Zoom Fitness of 60Kg of Body building held at KKR Mahal Pattabiram on 04.06.2023.



Club Activities

The Valedictory ceremony of Club activities is held at ECE Gallery Hall on 20.04.2023.



ACE Club



Event 2
RIZZLE MANIA



Club Event 3
CREATIVE BUILD



K.Raghava Reddy(VTU13265),
P.Obula Reddy(VTU15094),
A. Sai Kumar(VTU13264) –IV ECE - Winners



Reddy Mounik (VTU19349),
K.Nikhil 8Manideep(VTU20901),
B.Lakshmi Chaitanya(VTU20889) – II ECE - Runners

ROBOTICS
Club Event



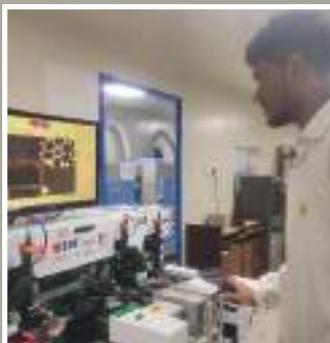
Club
Activities
Programming
Club Event





Club Event
Engineers Without Borders

International and Industry Internship



- Karaka Teja,VTU13557 has completed their project with title “Automatic detection of LED colour via Machine Learning on a Micro Controller” at Universiti Kuala Lumpur.
- Khiran Kumar,VTU10960 and Tharun Akula has completed their project with title “Identification and qualification of pesticide using impedance -capacitance measurement and AI model” at National Chung Hsing University.
- David Honesty Babu,VTU15863 has completed their project with title “AI and ML - Enablers of Self-Organization Networks(4G SON) and Radio Intelligent Controller (5G RIC)” at Ming chi university.
- Kaushik Ganguli,VTU11573, has completed their project with title “Driver behavior Analysis of Heavy Duty vehicles based on CAN SAE J1939 data” at Southern Taiwan University of Science and Technology.
- Kaviyaranan P, VTU18849 and Sakthivel B,VTU11054 has completed their project with title “Intelligent Dashboard for Task Management and Monitoring” at Universiti Sains Islam Malaysia (Virtual Internship).
- M.Karthik,VTU15834 has completed his project with title “Balancing of rotary machinery through electromagnetic actuation” at National Central University,Taiwan.
- Rajan Kumar Mahato,VTU16223 and Nagi Siva KumarVTU15523 has completed their project with title “Semiconductor Wafer Defects Detection using Yolov5 Model” at National Changhua University of Education, Taiwan.



One Credit Courses



- Professor Dr. Celestine Iwendi Bolton University, UK taught one credit course on title "Artificial Intelligence for IoT" at ECE Gallery Hall.



- Professor Dr. M. Shridhar University of Michigan, Dearborn, USA taught one credit course on title "Machine Learning and Deep Learning" at ECE Gallery Hall.

PROFESSIONAL BODY ACTIVITIES

Inauguration of IEEE Circuits and Systems Student Branch Chapter

The Department of Electronics and Communication Engineering (ECE) organized the Inauguration of the IEEE Circuits and Systems Student Branch Chapter on 25.04.2023. The event was graced by Dr. K. Porkumaran, Chairman IEEE CAS Madras Section, as the chief guest. The swearing-in ceremony of office bearers for the year 2023 also took place during the event.



IEEE Signal Processing Society



On 25.02.2023, the IEEE Signal Processing Student Branch Chapter hosted a Seminar on "Cloud Technology". The guest speaker for the event was final-year student Mr. S. Sai Teja. The seminar began promptly with a discussion on the latest contemporary trends in Cloud Technology.

On 01.03.2023, the IEEE Signal Processing Student Branch Chapter organized a Debate on "Core vs IT Technology" for the students of the ECE department. The event consisted of two teams that debated which field provided better career opportunities, with each team presenting their arguments and countering the opposing team's arguments.



On 13.03.2023, the IEEE Signal Processing Student Branch Chapter conducted a Meeting for all Office Bearers and members. The main focus of the meeting was to discuss various ideas and topics on how to successfully conduct more events.

PROFESSIONAL BODY ACTIVITIES



On 31.03.23, the IEEE Signal Processing Student Branch Chapter organized a Seminar titled “Unleashing the Power of IEEE:A Guide to Student Benefits”.



The IEEE Signal Processing Student Branch Chapter of Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology conducted a Valedictory Ceremony for IEEE Student Branch Chapter contests conducted in the Academic Year 2022-2023 on 20.04.2023.

Inauguration of IEEE Communication Society Student Branch Chapter

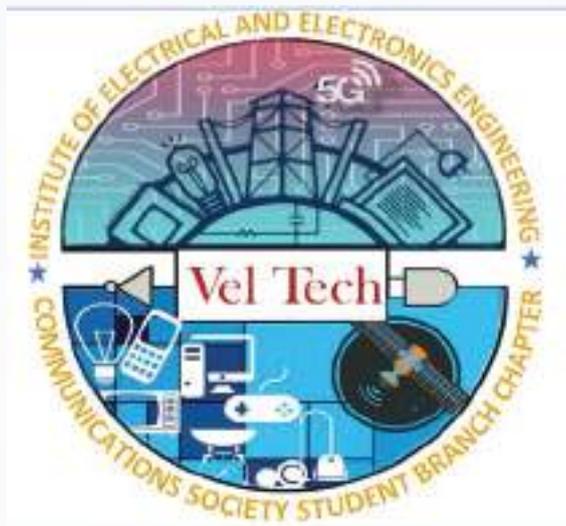
The Department of Electronics and Communication Engineering (ECE) organized the Inauguration of IEEE Communications Society Student Chapter in Vel Tech Rangarajan Dr Sagunthala R&D Institute of Science and Technology under the Department of ECE on 11.03.2022 with 306 attendees. The event was graced by Mr.H.R.Mohan, Vice Chairman IEEE ComSoc Madras, as the chief guest. The swearing-in ceremony of office bearers for the year 2023 also took place during the event.



PROFESSIONAL BODY ACTIVITIES

IEEE Communication Society

The Department of ECE has got approval from IEEE to start a Student Chapter on IEEE Communications Society. As a preliminary event prior to the Inauguration, a “LOGO DESIGN CONTEST” has been organized on 07.03.2023 at ECE Gallery Hall for the students.



The logo design winner was U.Jagadeesh (VTU21268) of 2nd Year ECE.



PLACEMENTS

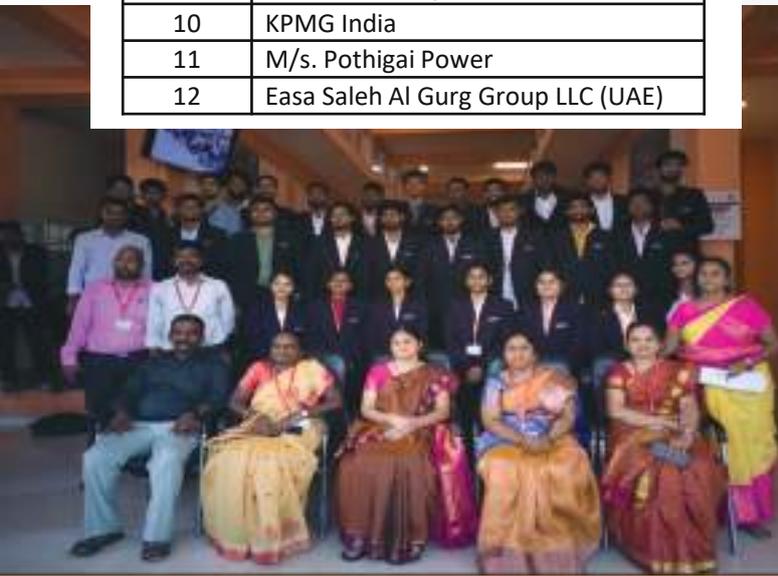
S.No	Details	Count
1	Total No. of Students	678
2	Total No. of Eligible Students	587
3	Total No. of Students Placed	472
4	Total No. of Students Placed in Core	53
5	Total No. of Students Placed in IT	419
6	Total Students yet to placed	115
7	Total No. of Companies Visited	54
8	Min. Package Offered	2.75 LPA
9	Max. Package Offered	10 LPA

List of Core Companies Visited

S. NO.	LIST OF CORE COMPANIES
1	Embitel Technologies
2	Microchip
3	M/s.Hundai Motors
4	AUTOMATIVE ROBOTICS
5	M/s. Data Patterns
6	M/s. TATA ELXSI
7	M/s. BlueBinaries
8	M/s. Jio Platforms
9	M/s. JSW Group
10	KPMG India
11	M/s. Pothigai Power
12	Easa Saleh Al Gurg Group LLC (UAE)

List of IT Companies Visited

Aptean, Virtusa, Sasken Technologies
 CTS, Acies Global, Infosys, Mu Sigma, IBM, Walmart,
 Open Text, Odessa Technologies, Kaar
 Technologies, Ignitarium Technology, TCS- Digital,
 TCS- NINJA, Cognizant, Accenture, LTI, Capgemini,
 DXC Technologies, M/s. MountBlue Technologies,
 ThoughtClan Technologies, M/s. Sirius, M/s.
 Nihilent, M/s. CGI



ThoughtClan



Infosys





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(Deemed to be University Estd. on 3 of UGC Act, 1980)



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