



**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 & Communication Engineering**

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# 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)





# 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 5<sup>th</sup> 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(VTUI 3265), P.Obula Reddy(VTUI 5094), A. Sai Kumar(VTUI 3264) – IV ECE - Winners

Reddy MounikK.Nikhil(VTUI 9349), .Manideep(VTUI 20901), B.Lakshmi Chaitanya(VTUI 20889) – II ECE - Runners

**ROBOTICS**  
**Club Event**



**Club**  
**Activities**  
Programming  
Club Event



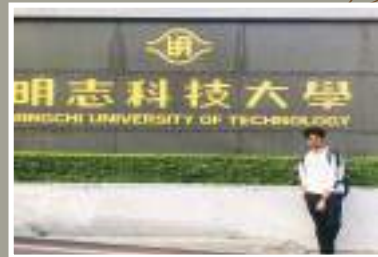


**Club Event**  
**Engineers Without Borders**

## International and Industry Internship



- Karaka Teja,Vtu I 3557 has completed their project with title “Automatic detection of LED colour via Machine Learning on a Micro Controller” at Universiti Kuala Lumpur.
- Khiran Kumar,Vtu I 0960 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,Vtu I 5863 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,Vtu I 1573, 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, Vtu I 8849 and Sakthivel B,Vtu I 1054 has completed their project with title “Intelligent Dashboard for Task Management and Monitoring” at Universiti Sains Islam Malaysia (Virtual Internship).
- M.Karthik,Vtu I 5834 has completed his project with title “Balancing of rotary machinery through electromagnetic actuation” at National Central University,Taiwan.
- Rajan Kumar Mahato,Vtu I 6223 and Nagi Siva Kumar Vtu I 5523 has completed their project with title “Semiconductor Wafer Defects Detection using Yolov5 Model” at National Changhua University of Education, Taiwan.



# One Credit Course



- 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 BODIES

## 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, from 2:30 to 4:25 PM. 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" from 2:00 to 3:00 PM. The guest speaker for the event was final-year student Mr. S. Sai Teja. The seminar began promptly at 2:00 PM 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 from 3:45 to 4:45 PM. The event consisted of two teams that debated which field provided better career opportunities. The debate began at 3:45 PM, 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 from 3:20 to 3:50 PM. The main focus of the meeting was to discuss various ideas and topics on how to successfully conduct more events.

# PROFESSIONAL BODIES



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" from 2:00 to 4:30 PM.



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 BODIES

## 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 , 03:45 pm - 04:35 pm 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





# Vel Tech

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