



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



**SCHOOL OF ELECTRICAL AND COMMUNICATION**

**Vel Tech Rangarajan Dr. Sagunthala R&D  
Institute of Science and Technology, Avadi,  
Chennai, Tamil Nadu, India**

# **ANNUAL REPORT**

**2022-23**

**VOLUME-02**



**Department of Electronics and Communication Engineering.**

# FOUNDERS



*Col. Prof. Vel. Dr. R. Rangarajan*  
*B.E.(Elec.), B.E.(Mech.), M.S.(Auto.),*  
*D.Sc.*

*Founder President & Chancellor*



*Dr. Mrs. Sagunthala Rangarajan*  
*M.B.B.S.*

*Foundress President*

# FOREWORD



***Col. Prof. Dr. Vel. R. Rangarajan***  
***B.E. (Elec), B.E. (Mech), M.S.***  
***(Auto), D.Sc.,***

***Founder President & Chancellor***

***&***

***Dr. Sagunthala Rangarajan***

***M.B.B.S.,***

***Foundress President***

This year has been the most challenging since Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology was established nearly 26 years ago. Through circumstances largely beyond our control, our University has been forced to change dramatically. I am delighted to see that the department has demonstrated the best qualities in teaching and learning. I congratulate the whole department, faculty, staff and students who have strived hard to bring achievement to the department and the institution. This is an outstanding department, which offers the opportunity to redesign the world around and make it even more efficient, connected and sustainable. I believe the department educates the students with this state of art knowledge to transforms the world by designing, building and deploying innovative solutions to real-world problems and provide a scope to deliver real impact for the future of the University in India and beyond. I once again congratulate and look forward for such accomplishment in the future also.

# FOREWORD



***Mrs. Rangarajan Mahalakshmi  
Kishore***  
*Chairperson & Managing Trustee  
Vel Tech*

Vel Tech Rangarajan Dr.Sagunthala R&D Institute of Science and Technology has been making a significant contribution to society since more than two decades, through spreading value-based education keeping the present education system in mind. Department of Electronics and Communication empowers their student-youths with appropriate new age technology mind-set, making them digitally ready for the future, ensuring the students to grab an opportunity in this competitive world. The department also provides High-tech infrastructural lab facilities, the students will be acclimatized to proficient work culture and enable them to emerge as well-acclaimed professionals that the industry desires to have. To support teachers, the Connected Learning Hub was launched, providing curriculum resources across all year levels. Far-sighted how we pulled together over the past one year, I now feel even more confident about the quality of education being delivered to students in ECE department of this esteemed university and this annual report is the witness of the department achievement. I am delighted to announce this Annual Report of the Department of Electronics and Communication Engineering, which illustrates the department's assurance of faculty for enriching students' learning through teaching-centered methods to advancing excellence in academics and research. I congratulate the department faculty members, staffs and students for the defensible growth to extent new heights every year and I wish that the same enthusiasm may be continued.

**-Mrs. Rangarajan Mahalakshmi Kishore**

# FOREWORD



***Prof. S. Salivahanan***

*Vice Chancellor*

*Vel Tech Rangarajan Dr. Sagunthala R&D  
Institute of Science and Technology*

Department of Electronics and Communication Engineering exemplify its excellence in education and research. The department offer an outstanding student experience, delivering world-changing research, and ensuring a global reputation for excellence. I am extremely delighted to see a blend of academic pursuits and extra-curricular activities provided by the department which is much essential for the personality development of the students. Various club activities have been organised in the department to motivate the students for their self advancement. I am glad to see students' participation in many competitions at national level addressing to meet the needs of Industry and society. Faculty in various domains, carry out research and publish papers in reputed journals with high impact factor. Patents and research proposals are submitted by faculty members and granted by government funding agencies. I convey my heartiest congratulations to my colleagues for their achievement during the academic year 2022-23 and to all the students for their great feats in different fields ranging from NCC, NSS and Sports too. It is heartening to report that our students have not only participated, but also have won several prizes in various inter-collegiate and national level events. To conclude, I want to encourage faculty and students to continue to make contributions, big or small. I am also delighted to know that faculty and students are reaping the benefits of online learning modules and e-resources. Again, I humbly appeal to the faculty and students to have optimal utilization of these ICT Initiatives of e-learning to widen their knowledge based. I am thankful to all the members of the teaching fraternity and non-teaching staff for their extreme contribution and entire support to the organisation.

**-Prof. S. Salivahanan**

# FOREWORD



***Dr. R. S. Valarmathi***

*Professor & Dean, SoEC*

*Vel Tech Rangarajan Dr. Sagunthala R&D  
Institute of Science and Technology*

The goal of the Department of Electronics and Communication Engineering (ECE), School of Electrical and Communication Engineering (SoEC), Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology is to position our Engineering graduates as problem solvers, leaders, life-long learners and honorable citizens of the global community. We offer the best Engineering atmosphere with world class facilities, intellectual and technological resources from Educational and Research Institutions for the holistic development of our students. The ECE curriculum is balanced between the practical aspects of Engineering and offers three specialization courses (Artificial Intelligence & Data Science, Artificial Intelligences & Machine Learning, and Cybersecurity) with the strong theoretical and practical foundation, this prepares our students to meet the challenges of the global technological society. I am pleased to introduce this Annual Report 2022 -23 from the Department of Electronics and Communication Engineering. I am proud to note that the faculty members and students have received awards and recognitions by participating in various events outside the institution at National & International level. This annual report is a unique compilation of activities conducted by the department and also the accolades and glorious achievements of staff and students. I wish, this report to be used as a reference guide by the ECE- students to plan and realize their academic life more sensible and efficient. I wish you all a very rewarding and successful experience at Vel Tech.

**-Dr. R. S. Valarmathi**

# FOREWORD



***Dr. P. Esther Rani***

*Professor & Head, Department of ECE  
Vel Tech Rangarajan Dr. Sagunthala  
R&D Institute of Science and  
Technology*

The Department of Electronics and Communication Engineering was established in the year 1997 with a sanctioned intake of 60 students. Today the numbers stand as 480 sanctioned intake and the B.Tech. ECE program is accredited by NBA under Tier-I. Over the last two decades, we have grown both in infrastructural and expertise in various fields, related to core ECE. The primary focus of our curriculum is to impart technical know-how to students. Promote their problem-solving skills and to kindle their innovative thoughts through our Outcome-Based Education (OBE) and Active Teaching and Learning Methods (ATLM). Unique mandates of this department are Automotive Electronics, Network-Cyber Security, Artificial Intelligence, Machine Learning, Communication Antenna, Embedded Systems, Small Satellites, VLSI and Unmanned Air Vehicles (Drone). The department has a strength of 106 diligent faculty members and has well established research labs in collaboration with industries in the fields of Internet of Things, Signal processing, VLSI, Embedded System Design and RF Communication. An exclusive lab is established to impart “Conceive-Design-Implement-Operate” principles among students, thereby to nurture critical thinking, problem-solving and financial-planning skills among students. The students are encouraged to undertake various research projects and associate themselves under different clubs like ACE Club, Programming Club, Robotic Club and EWS Club. The department conducts various workshops, expert talks and training programs on recent trends in ECE, in collaboration with industries for the benefit of faculty and students. The department has a good and consistent placement record with students placed in many Core and IT companies. It has active association with professional bodies like IEEE, IET and ISTE for both faculty and students to enhance their research activities. I am pleased to present this Annual Report for the academic year 2022–23. This report covers the summary of all academic and nonacademic activities organized by the department. The details of achievements and accolades received by faculty and students from various technical and non technical events have been composed to bring an exposure to budding engineers about the opportunity available for them. The particulars of student placement and student internship at various industries and international universities are also enclosed to motivate the ECE students. I hope that, the information provided through this annual report will help them to plan and realize their academic life more progressive.

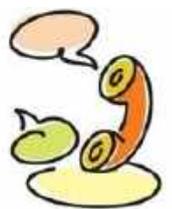
**-Dr. P. Esther Rani**

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# DEPARTMENT AT A GLANCE

The Department of Electronics and Communication Engineering was established in 1997. Since the inception of the institution, over the time, the department has emerged in diverse dimensions and affords a spellbound ambience for teaching and learning. The department offers B.Tech. in Electronics and Communication Engineering, M.Tech. in Embedded Systems and Technologies and Ph.D. in ECE with technology-oriented courses that creates industry ready personnel in the prudent fields of ECE. All the programs are approved by AICTE and the B.Tech. ECE program has received Tier I NBA accreditation for 3 years in the year 2018, which is extended for 1 more year in 2021. The department has been strengthened by its erudite faculty members from reputed Universities and organizations. The key areas of research and academic activities in the department are VLSI Design, RF and Microwave Antenna Design, Signal Processing, Image and Video Processing, Embedded Systems Design, Wireless Sensor Networks, Unmanned Aerial Vehicles and Small Satellites. The faculty and students have won awards like CANEUS Lockheed Martin Award in IISC for Small Satellites, Aegis Graham Bell Award for Unmanned Air Vehicles and for various innovative achievements. The department is well-equipped with curriculum based laboratories like Texas Instruments powered IoT & Signal processing labs, Xilinx powered System on Chip lab, EYantra Embedded systems and Robotics lab supported by MHRD and IIT Bombay and FranceCol lab in collaboration with FranceCol technology, France. Several initiatives in alliance with International Universities and Core Electronics Industries are also given cardinal importance in the department. The department is actively associated with organizations such as C-DAC (Pune), ARAI (Pune), NASSCOM and Kwalify Photonics.



**16**  
PROFESSORS

**27**  
ASSOCIATE  
PROFESSORS

**63**  
ASSISTANT  
PROFESSORS



## Department Vision

“To be a Centre of Academic Excellence through quality education and cutting-edge research in diversified fields of Electronics and Communication Engineering to meet the global challenges and produce high quality professionals.”

## Department Mission



**M1**

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

- Outcome Based Education
- Active Learning
- Project Learning
- Integrated Course



**M2**

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

- CDIO Projects
- Funded Projects
- Consultancy Projects

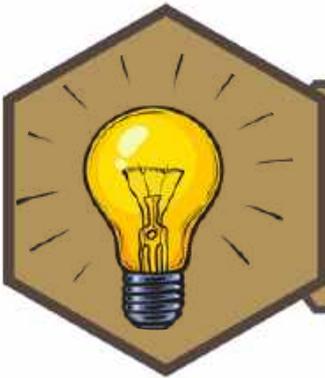


**M3**

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

- Soft Skill Training
- Value Education Electives
- Career Ready Practices

# Department Programme Educational Objectives



**Our graduates will solve contemporary problems in the analysis and design of Electronics and Communication Devices and Systems**



**Our graduates will conceive ideas for the societal issues and will design, implement and operate the Engineering products for the ideas conceived.**



**Our graduates will perform in various roles with adequate Technical and Managerial Skills in Design, Development, Production and Support areas of Electronics and Communication and Allied Industries.**



**Our graduates will pursue higher education and will be lifelong learners in their profession, effectively communicate the technical information and work in multidisciplinary teams.**



**Our graduates will be ethical, environmental, health and safety concerned in their profession.**

# About the Programme B.Tech-ECE

The Programme follows Outcome Based Education (OBE), which primarily focuses on knowledge, skill and attitude of the graduates. From the academic year 2015-16 onwards, the academic regulation of the Programme follows Choice Based Credit System (CBCS) with academic flexibilities like (i) Course Choice within the programme (ii) Faculty Choice (iii) Department /School level course choice (iv) MOOC course choice. The Programme curriculum (VTU R15) consists of various course categories (Foundation, Programme Core, Programme Elective, Allied Elective, University Elective, Value Education Elective, Independent Learning, Industry/Higher Learning Institute Interaction and Complementary Skill Courses) to provide the depth and breadth required for the programme and for the attainment of student outcomes of the programme.

Programme Electives on contemporary technologies such as Software Defined Networking, Software Defined Radio, Next Generation Mobile Networks, Nano Photonics, Radio over Fiber Systems, System on Chip, Internet of Things were included in the curriculum based on the recommendations from Board of Studies (BoS) and further approved by the Academic Council Members. Faculty and Industry-Experts from top QS ranking institutes in USA, Germany and Taiwan and reputed organizations delivered one credit courses on contemporary technologies for the students of B.Tech. ECE programme. In the programme, faculty members have been facilitating students towards collaborative and cooperative learning through Jig-Saw, Think-Pair- Share, Peer Instruction, Mud Card and Flipped Classroom and Problem / Project Based Methods. Since 2018, the programme facilitates interested final year students who have completed all courses except project works to undergo nine months internships/project work in industries or International Universities. Students to be admitted for the academic year 2021-22 will follow the new curriculum “VTRUGE21”. In addition to the various course categories offered in previous regulation, the new curriculum has the option of obtaining B.Tech. Degree in ECE with specialization in

- 1 Artificial Intelligence and Data Science
- 2 Artificial Intelligence and Machine Learning
- 3 Cybersecurity



Lead Society for ECE



# DEPARTMENT HIGHLIGHTS

**TEACHING  
FACULTY**

**106**

**INDUSTRY  
SUPPORTED  
LABORATORIES**

**06**

**CDIO LAB**

**01**

**ECE  
DEPARTMENT**

Your paragraph text

**RESEARCH  
LABORATORIES**

**04**

**UG  
INTAKE**

**480**

# HISTORICAL HIGHLIGHTS

- Our ECE Department with B.E-ECE was affiliated with the University of Madras in the year of 1997.
- B.E- ECE was affiliated to Anna University, Chennai since 2005.
- M.E.-Embedded System Technologies and M.E-VLSI Design had been affiliated to the Anna University, Chennai since 2005.
- B.Tech- ECE has become part of Deemed to be University in the year of 2009.
- M.Tech- ECE with Embedded System Technologies was added under Deemed to be university in the year of 2016.
- Tier -I NBA B.Tech- ECE 3 years Accreditation in the year of 2018.
- B.Tech-ECE with specialization 1.AIDS 2.AIML 3.CYBER SECURITY in the year 2021. B.Tech -ECE with specialization in IoT was started in the year 2023.
- NBA accreditation was extended and is valid until June 2025.



# Value Creation Model

Our Department focuses on understanding the needs of students, faculty, researchers and industry partners and delivers a curriculum that aligns with those needs and goals.



**People**  
Faculty,  
Students



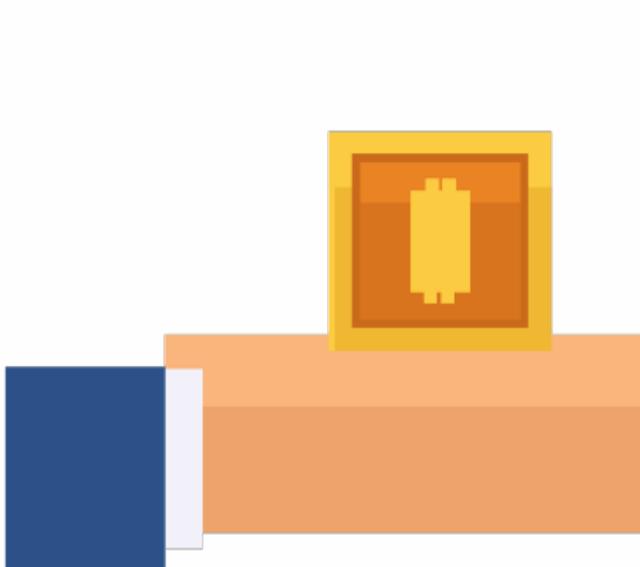
**Teaching and Learning**  
Faculty, Students



**Infrastructure**  
Physical Classes, Smart Classes,  
Laboratories, Library and Gallery Hall



**Network**  
Academic alliances,  
Industry Linkages



# FDP & Workshops Attended

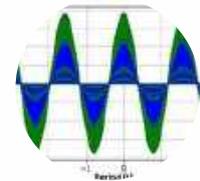
24

**Communication  
Domain**



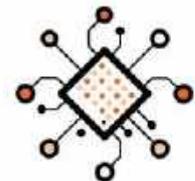
118

**Signal Processing  
Domain**



55

**Embedded  
Systems**



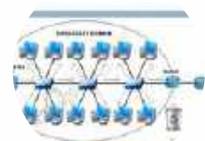
40

**VLSI  
Design**



52

**Networking  
Domain**



# FDP & Workshops Organized

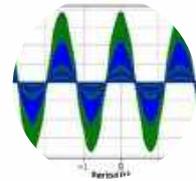
**06**

**Communication  
Domain**



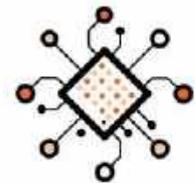
**07**

**Signal Processing  
Domain**



**02**

**Embedded Systems**



**02**

**VLSI Design**



**02**

**Networking  
Domain**



# Webinars Attended

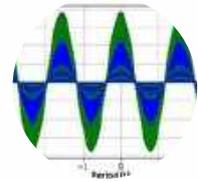
04

**Communication  
Domain**



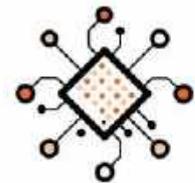
11

**Signal Processing  
Domain**



05

**Embedded  
Systems**



06

**VLSI  
Design**



05

**Networking  
Domain**



# Research Proposals Submitted

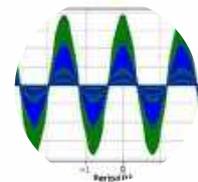
02

**Communication  
Domain**



02

**Signal Processing  
Domain**



02

**Embedded  
Systems**



09

**VLSI  
Design**



01

**Networking  
Domain**



# Research Proposals Granted

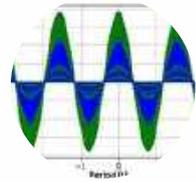
01

**Communication  
Domain**



01

**Signal Processing  
Domain**



# Patents Published / Granted

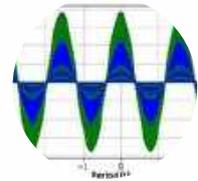
09

**Communication  
Domain**



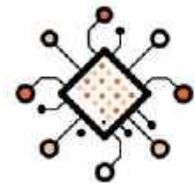
03

**Signal Processing  
Domain**



01

**Embedded  
Systems**



03

**VLSI  
Design**



06

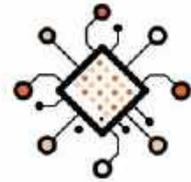
**Networking  
Domain**



# Student Mentoring (External Contest)

01

**Hackathon**



02

**VLSI  
Design**



# Faculty Achievements (2022-23)

## COMMUNICATION DOMAIN

- FACULTY - 25
- FACULTY WITH PH.D. - 19
- PUBLICATION - 24
- BOOKS/BOOK CHAPTER - NIL



## SIGNAL PROCESSING DOMAIN

- FACULTY - 25
- FACULTY WITH PH.D. - 13
- PUBLICATION - 21
- BOOKS/BOOK CHAPTER -01



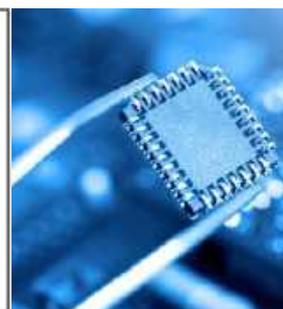
## EMBEDDED SYSTEM DOMAIN

- FACULTY - 23
- FACULTY WITH PH.D. - 10
- PUBLICATION - 167
- BOOKS/BOOK CHAPTER - 05



## VLSI DOMAIN

- FACULTY - 18
- FACULTY WITH PH.D. - 10
- PUBLICATION - 45
- BOOKS/BOOK CHAPTER - 02



## NETWORKING DOMAIN

- FACULTY - 15
- FACULTY WITH PH.D. - 10
- PUBLICATION - 50
- BOOKS/BOOK CHAPTER - 02



# Student's Learning Experience

- Modern Learning Approaches

Our focus is to enhance students' learning and overall experiences by implementing interconnected pillars within our educational framework. We achieve this by continuously improving our curriculum and adopting student-centric teaching and learning methods. We offer tutoring and academic counselling services to support students in their academic journey. Additionally, we provide tools and resources that assist students in effectively managing their goals and progress. Our commitment is to empower students and guide them towards achieving their academic aspirations.



Learn Everything hangs on quality content. Industry and professional standards guide the content of courses and programs



Practice Students practice through assignments, often integrating their work experience.



Apply: Students apply their knowledge to real world problems, helping them move towards career goals.



# Student Learning Path



The School of Electrical and communication empowers all students to access and complete equally rigorous pathways that enable exploration of career interests while gaining the knowledge and skills necessary for success in workforce and higher studies. Opportunities such as project-based learning, internships, and experiential learning activities are paired with support to address achievement gaps and ensure that every student can advance to deeper levels of mastery regardless of their starting place.



1st  
Year

Foundations in Mathematics,  
Science and Engineering

2nd  
Year

Circuit Theory, Signals & Systems,  
Digital Electronics, Analog  
Electronics and Discrete Time Signal  
Processing



3rd  
Year

Skills required for Projects, Emerging areas  
and Employment



4th  
Year

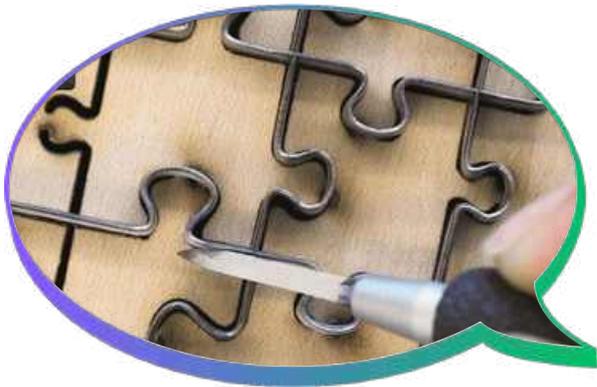
Innovative Project development, Industry  
ready and Career Guarantees



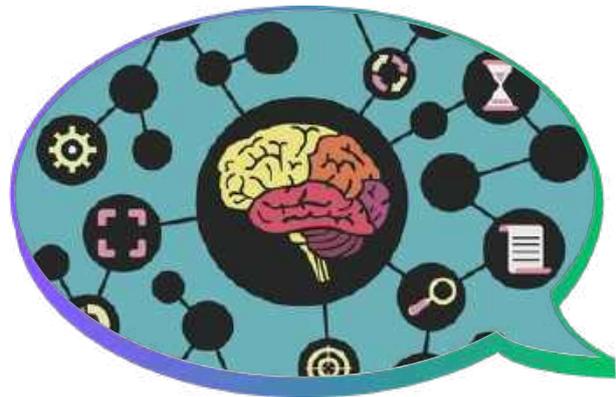
# Student Centric Methods

## Modern Learning Approachs

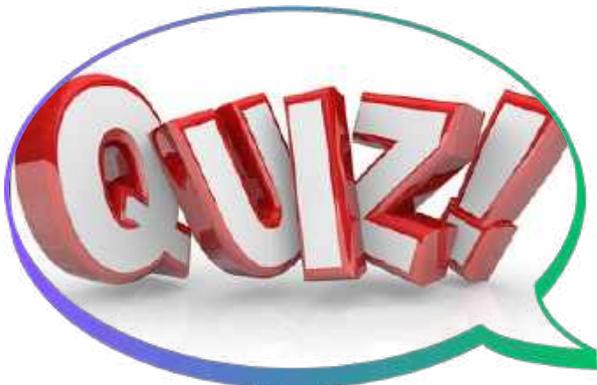
The Department of Electronics and Communication Engineering employs a teaching methodology centered around students, where education is imparted through an active and engaging approach. This methodology aims to shift students from passive recipients of knowledge to active participants in their own learning.



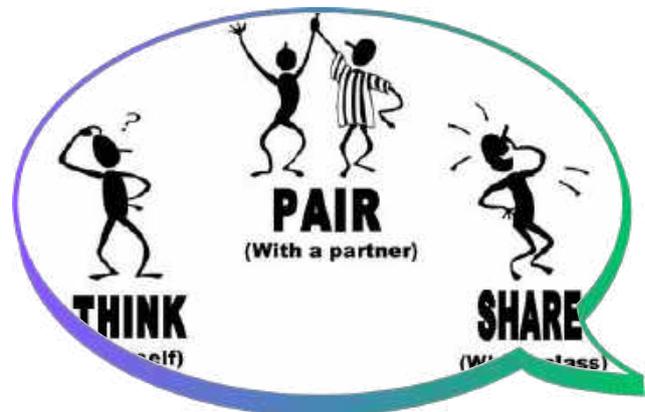
JIGSAW PUZZLE



MIND MAPPING



QUIZ



THINK PAIR SHARE



GROUP PEER LEARNING



MINUTE A PAPER

# Student Achievements (2022-2023)



Cricket Team with Winner Trophy



IEEE MAS Student Project



National Level  
Technical Symposium

## STUDENT ACHIEVEMENTS (2022-23)



Kabbadi Team with Winner Trophy

*#moments*

# Student Achievements (2022-2023)



Python Coding Contest



Circuit Debugging

## STUDENT ACHIEVEMENTS (2022-23)



5th place in Zoom Fitness of 60 Kg Category Body building

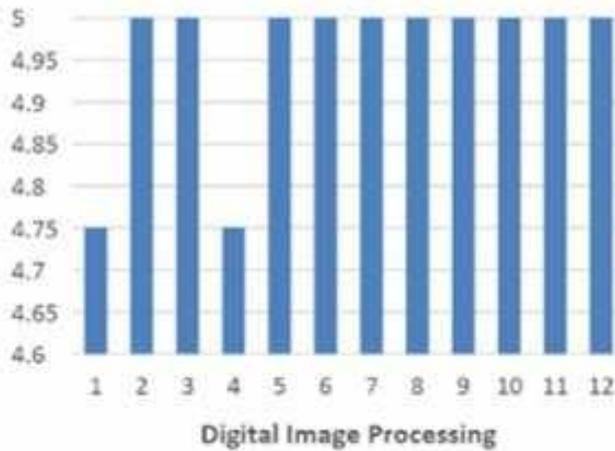
*#moments*

# Student Satisfaction 2022-23

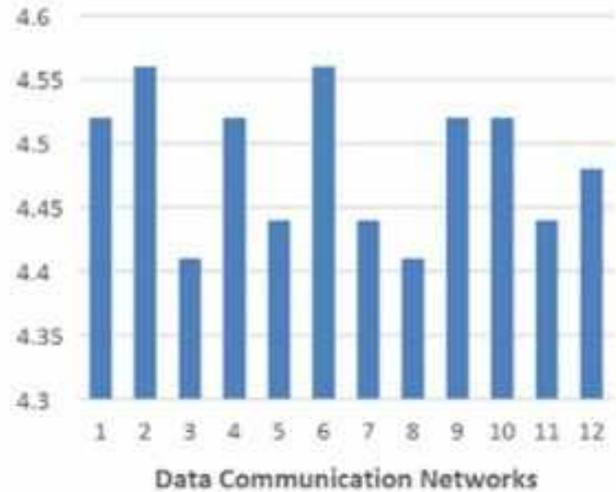
## Feedback on Course Delivery



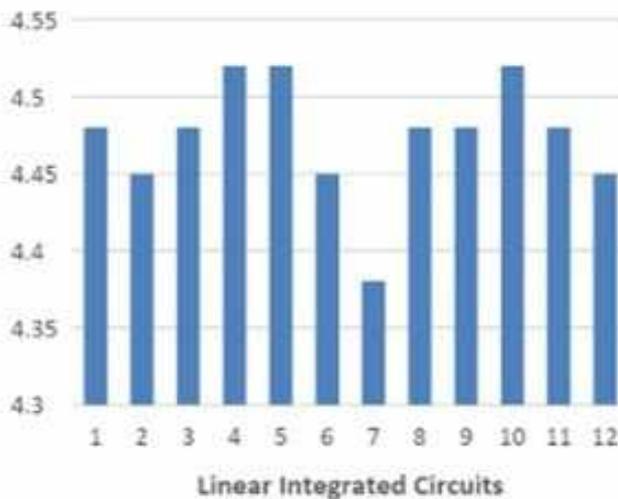
**DR R S VALARMATHI/Mr.C H MOHAN SAI**



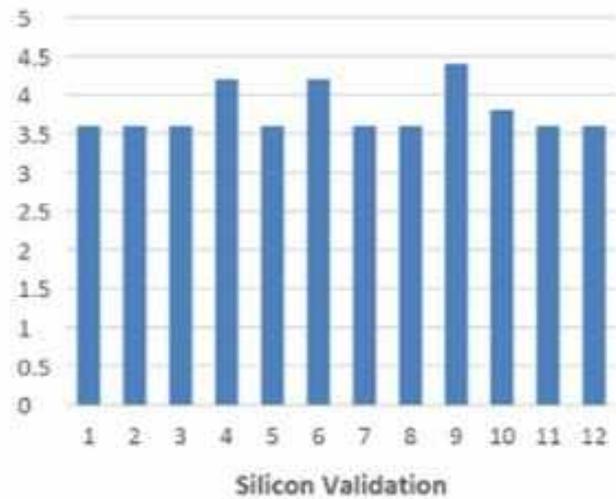
**DR. G ALOY ANUJA MARY**



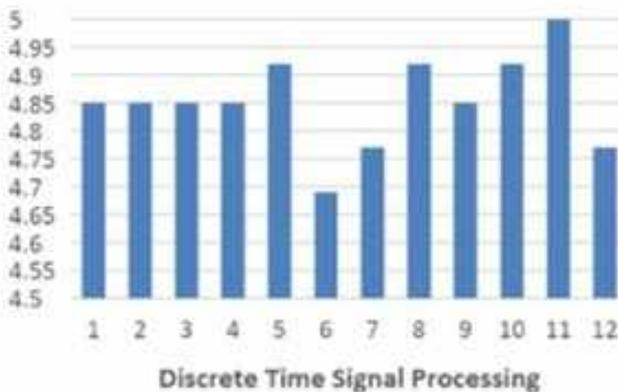
**Dr. Hemakumar V S**



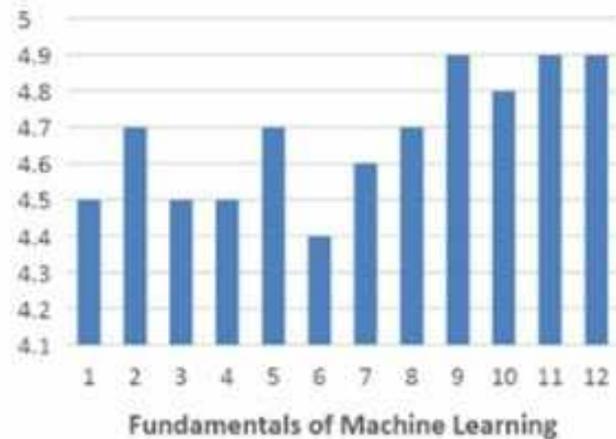
**Dr. MAZHER IQBAL. J.L**



**Dr. P. Esther Rani / Mr.S.Asath**



**DR. S. JANA**

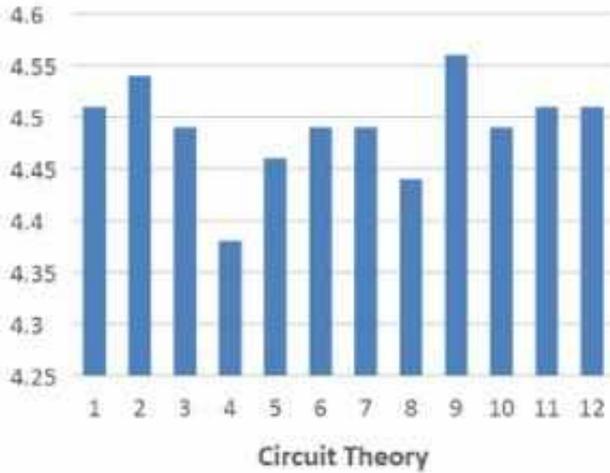


# Student Satisfaction 2022-23

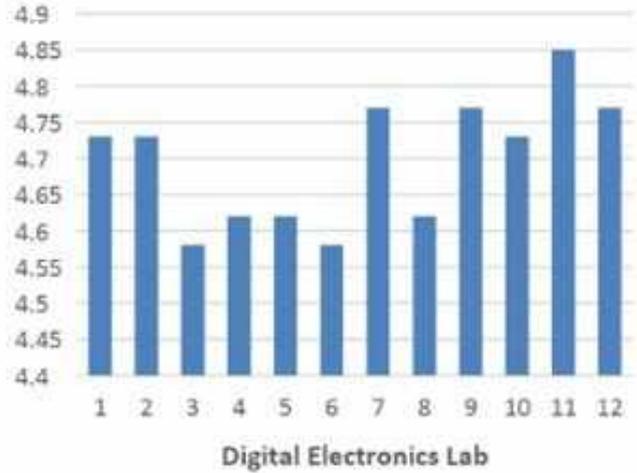
## Feedback on Course Delivery



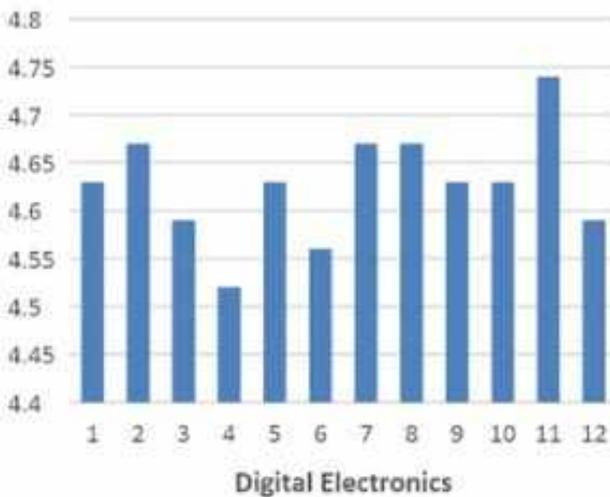
**Dr.Lordwin Cecil Prabhaker M**



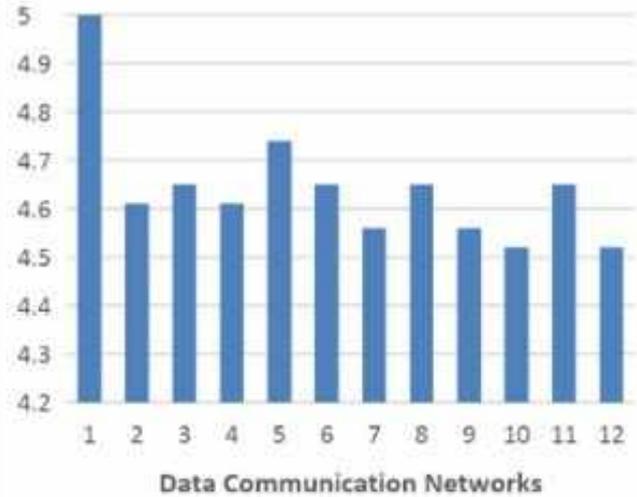
**Dr.Helina Rajini Suresh**



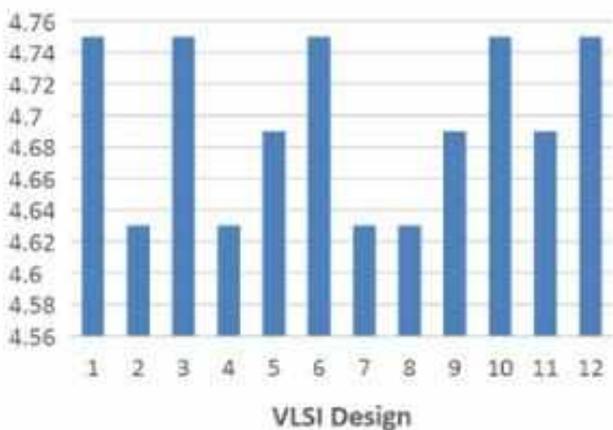
**Dr.Helina Rajini Suresh**



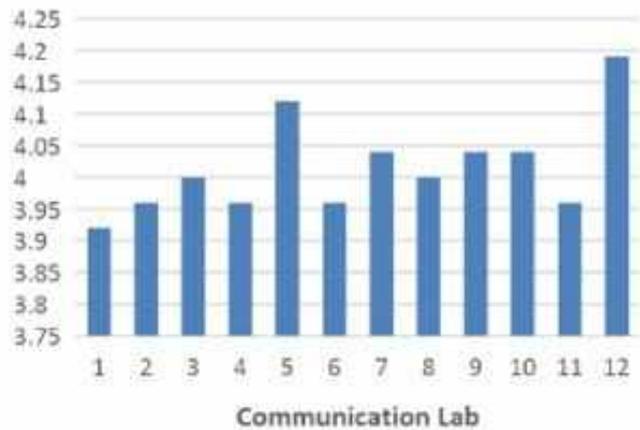
**Dr. AANANDHA SARAVANAN. K**



**Dr. Arun C A**



**Dr. B SATHYASRI**

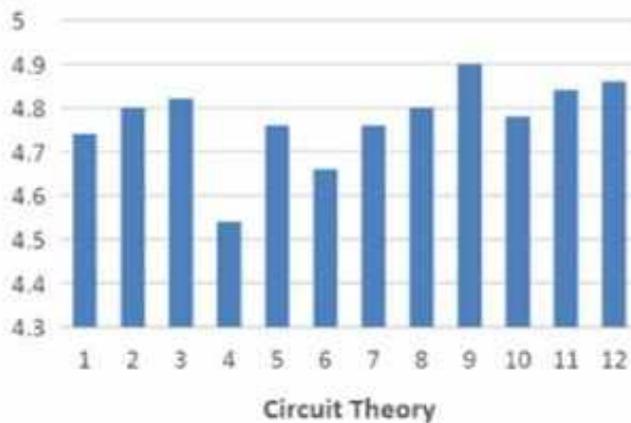


# Student Satisfaction 2022-23

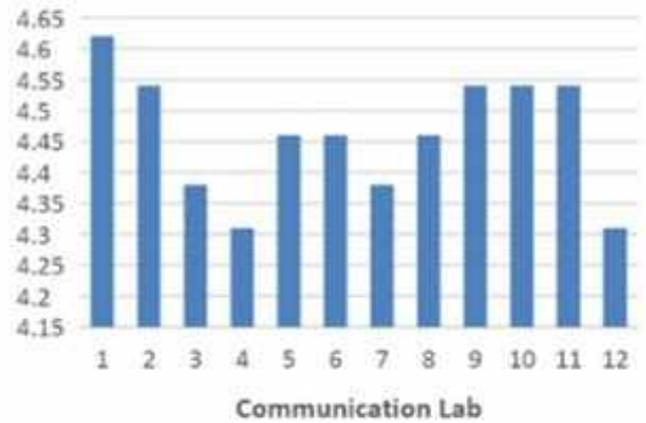
## Feedback on Course Delivery



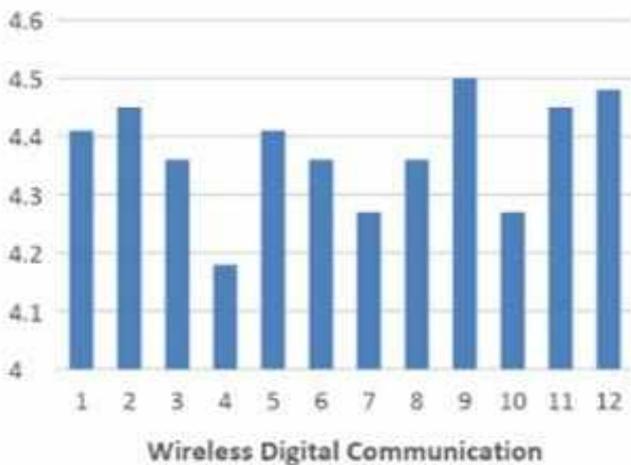
**Dr. Koushick V**



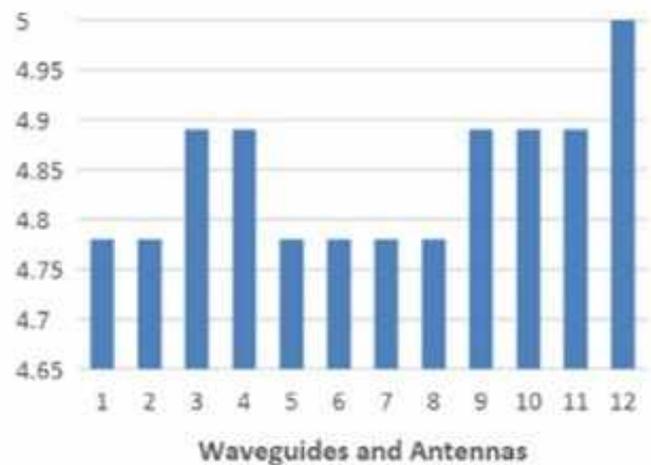
**Dr. KOUSHICK.V**



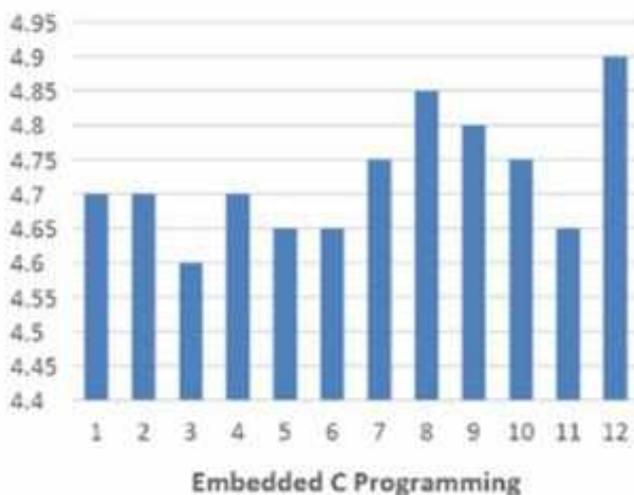
**Dr. KOUSHICK.V**



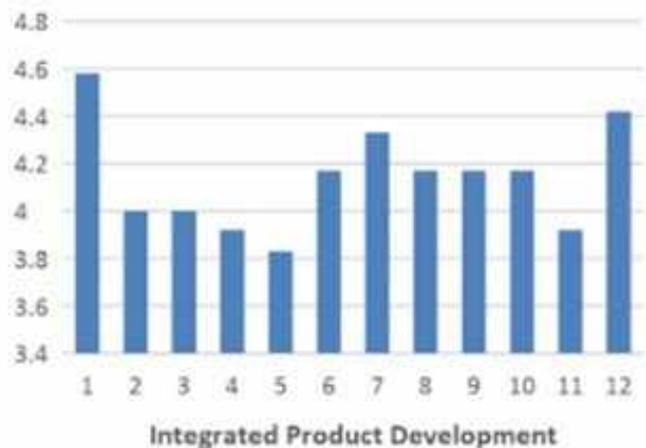
**Dr. M. SARAVANAN**



**Dr. NATARAJAN. S**



**Dr. R SANMUGA SUNDARAM  
/PRASANNA RAM**



# Events Organized

## ACADEMIC YEAR 2022-23



**Vel Tech**  
Rangarajan Dr. Sagunthala  
R&D Institute of Science and Technology  
Chennai

School of Electrical & Communication  
Department of  
Electronics & Communication Engineering

Organizer  
International Conference on  
**Smart System  
Technologies and  
Applications**  
**ICSSSTA 2023**  
April 20th & 29th 2023

**ABOUT THE CONFERENCE**  
The International Conference on Smart System Technologies and Applications (ICSSSTA) is organized by the Department of Electronics and Communication Engineering & associated with IETE to promote the latest developments in smart systems of Engineering and Technology. The aim of ICSSSTA 2023 is to provide the platform for the researchers and professional from various industries and industry to share the latest research for solving existing and identify the potential of innovations in Electronics and Communication Systems. This initiative provides opportunities for the professionals to establish the research relations and to find global partners for their businesses.

**INVITED SPEAKERS**  
Prof. Dr. Ganesan Srinivasan,  
University of Sri Lanka at Sri Lanka Open University,  
Colombo, Sri Lanka  
Prof. Dr. Ganesan Srinivasan,  
University of Sri Lanka at Sri Lanka Open University,  
Colombo, Sri Lanka  
Dr. M. Chakraborty,  
Scientist, Defense Electronics Research Laboratory, Hyderabad,  
India  
Dr. Y. S. Jayaraman,  
Dr. Y. S. Jayaraman, IIT Madras, Chennai, India  
Dr. Sathish Kumar Subramanian,  
Asia Pacific University of Technology and Innovation, Malaysia  
Dr. Srinivasan Srinivasan,  
Country Manager - IASL Innovations Pvt. Ltd., Bangalore,  
Karnataka, India

**GUIDELINES FOR PAPER SUBMISSION**  
All papers must follow publication guidelines and will be peer-reviewed and accepted based on originality, technical, and research depth. Copyrights related to reference materials and readability. Approval of paper will be communicated to authors by email. The authors of the accepted papers will be allowed to make corrections to the authors with the signature of the publisher. The IETE and IASL policies apply to applications of submission.

**PAPER FORMAT**  
Papers submitted to ICSSSTA 2023 should follow the standard IEEE template which can be downloaded from the IEEE website.

**IMPORTANT DATES**  
Paper Submission: 20th Feb 2023  
Final Paper Submission: 29th Feb 2023

**REGISTRATION AND PARTICIPATION FEE**

REGISTRATION	STUDENT	NON-IEEE MEMBERS
Early Bird Rate (1st Dec 2022 - 31st Dec 2022)	INR 1000	INR 1500
Regular Rate (1st Jan 2023 - 31st Jan 2023)	INR 1200	INR 1800
Student Rate (1st Feb 2023 - 31st Feb 2023)	INR 800	INR 1200
Workshop Fee (1st Feb 2023 - 31st Feb 2023)	INR 500	INR 800

**CONFERENCE DETAILS**  
ADDRESS: No. 25, JALAPPA STREET,  
RICE COOKERS (MADHAWAN) (4th Cross Street),  
Sankarapuram - 600 032, Chennai

**PAPER SUBMISSION LINK**  
http://www.iasl.in/ICSSSTA2023



**Vel Tech**  
Rangarajan Dr. Sagunthala  
R&D Institute of Science and Technology  
Chennai

School of Electrical & Communication  
Department of Electronics and Communication Engineering  
**ROBOTICS CLUB**

Cordially invites you for the  
**Two Days Workshop**  
on  
**"Robotics"**

29.03.2023 & 30.03.2023 Wednesday & Thursday  
Venue: ECE Gallery Hall (1601) @ 10.00 am

Resource person **Mr. G MOHAN SHANKER**  
Pantech E - learning solutions Pvt Ltd, Chennai

In the Presence of  
Col. Prof. Vel. Dr. R. Rangarajan  
Founder President & Chancellor  
Dr. Sagunthala Rangarajan  
Foundress President  
Prof. S. Salivahanan  
Vice Chancellor

Convener **Prof. Dr. P. Esther Rani**  
HOD / ECE  
Coordinators **Dr. Beulah Jackson, Professor / ECE**  
**Dr. M. Anandan, Associate Professor / ECE**

No.42, Anand - Vel Tech Road, Vel Nagar, Anand, Chennai - 600 962 | www.veltech.edu.in | 044 215 7607



**Vel Tech**  
Rangarajan Dr. Sagunthala  
R&D Institute of Science and Technology  
Chennai

School of Electrical & Communication  
Department of Electronics and Communication Engineering

Cordially invites you for  
All India Council for Technical Education (AICTE) Training and Learning  
(ATL) Academy Sponsored  
Faculty Development Programme  
21.11.22 to 26.11.22 (Online) & 28.11.22 to 02.12.22 (Offline)  
On  
**"Artificial Intelligence Driven 5G/6G Networks"**  
Monday 28.11.22 @ 10.00 AM ECE Gallery Hall (1601)

**Chief Guest:**  
Dr. V. Prithiviraj, IAS (IT), M.P.A.D (IIT-KGP), MIEEE  
Chairman - CSR, Govt. of Puducherry,  
Former Principal, Pondicherry Engineering College,  
Puducherry.

In the presence of  
Col. Prof. Vel. Dr. R. Rangarajan  
Founder President & Chancellor - Vel Tech  
Dr. Sagunthala Rangarajan  
Foundress President - Vel Tech  
Prof. Dr. S. Salivahanan  
Vice Chancellor - Vel Tech

Convener  
Dr. P. Esther Rani  
Professor  
HOD/ECE Vel Tech  
Coordinator(s)  
Dr. E.D. Kannan Ruby  
Professor/ECE, Vel Tech  
Dr. S. Sudaya Coumar  
Associate Professor/ECE, Vel Tech

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**Vel Tech**  
Rangarajan Dr. Sagunthala  
R&D Institute of Science and Technology  
Chennai

School of Electrical & Communication  
Department of Electronics and Communication Engineering  
Embedded System Domain  
Organizes

**One-day Workshop**  
on  
**"Recent Trends in Sensors Enabled System Towards IoT"**  
20.03.2023 | 10.00 am - 3.45 pm  
Venue: ECE Gallery Hall (1601)

Resource Person  
**Dr. Praeth R,**  
Assistant Professor  
Indian Institute of Information Technology,  
Design and Manufacturing, Kanchiipuram

In the Presence of  
Col. Prof. Vel. Dr. R. Rangarajan  
Founder President & Chancellor  
Dr. Sagunthala Rangarajan  
Foundress President  
Prof. S. Salivahanan  
Vice Chancellor

Convener: **Dr. P. Esther Rani**  
HOD/ECE  
Coordinator(s): **Dr. G. Sathish,**  
Professor/ECE  
**Dr. G. Srinivasan Sathishan,**  
Associate Professor/ECE

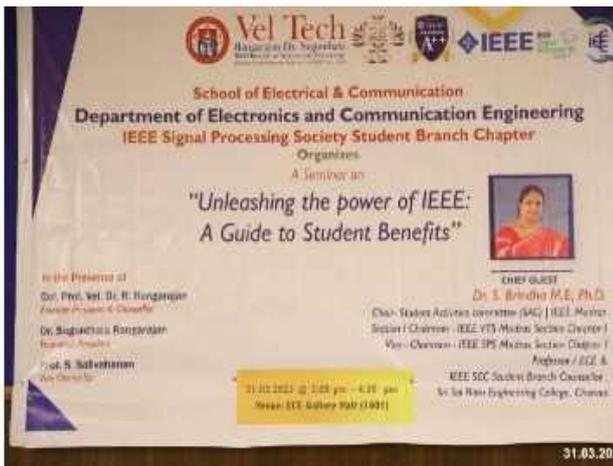
All faculty and students are cordially invited

No.42, Anand - Vel Tech Road, Vel Nagar, Anand, Chennai - 600 962 | www.veltech.edu.in | 044 215 7607

# Events Organized

## ACADEMIC YEAR 2022-23

Brochure:



# Events Organized

## ACADEMIC YEAR 2022-23





**Vel Tech**  
Ranganathan Dr. Sagunthala  
VIT Institute of Science and Technology  
Chennai - 600 160

**Programming Club**

**School of Electrical and Communication  
Department of Electronics and Communication Engineering  
Programming Club**

**Organizes**

**JAVA CODING CONTEST**

**PRELIMS  
24<sup>th</sup>  
FEBRUARY  
2023**

**ELIGIBILITY:  
ECE - III YEARS**

**4.45 PM to  
5.45 PM**

**ECE Gallery Hall  
(1601)**

All interested ECE - III year Students are invited to register at the below link provided:  
<https://forms.gle/GqNv5HDZCNwEyyUYA>

Last date for registration: 23-02-2023

Patron  
Prof. Dr. V. Jayasankar  
DEAN - SoEC

Co-Ordinator(s):  
Dr. V. Koushick  
Assistant Professor, ECE  
Department Club - Head

Convenor  
Dr. P. Esther Rani  
Professor & Head - ECE

Dr. Dasari Naga Vinod  
Assistant Professor, ECE  
Programming Club Coordinator



**Vel Tech**  
Ranganathan Dr. Sagunthala  
VIT Institute of Science and Technology  
Chennai - 600 160

**SCHOOL OF ELECTRICAL AND COMMUNICATION  
DEPARTMENT OF ELECTRONICS & COMMUNICATION  
ENGINEERING**

**Association of Communication Engineers**

**Non Technical Quiz**

Non Technical Quiz includes questions related to:

- Governance
- History
- Recent Trends
- Sports

- ❖ Competition will be held in Offline mode.
- ❖ Candidates can participate individual only
- ❖ The competition is open to all interested candidates.
- ❖ Participants have to carry their own materials.
- ❖ Any kind of vulgarity or offensive matter. Any such activity might cause the disqualification of the participants.
- ❖ All the participants will get Participation certificate.
- ❖ Winner and Runner-up candidates will get prizes.

**Make your presence on**  
12.00.22 – Prelims  
23.11.22 – Mains  
1501  
3.00 pm

For your queries: Mrs.V.Diana Earshia, 9500342021



**Vel Tech**  
Ranganathan Dr. Sagunthala  
VIT Institute of Science and Technology  
Chennai - 600 160

**SCHOOL OF ELECTRICAL & COMMUNICATION  
DEPARTMENT OF ELECTRONICS AND COMMUNICATION  
ENGINEERING**

**Association of Communication Engineers**

**Creative build**

**Make your presence on**  
6.04.23  
-Prelims – Building Bridge  
-Mains – solving sudoku  
522 – Smart Room  
.00 pm

- ❖ Competition will be held in Offline mode.
- ❖ Candidates can participate in groups of 3 or 4.
- ❖ The competition is open to all interested candidates.
- ❖ Participants will be given with necessary materials.
- ❖ Any kind of vulgarity or offensive matter. Any such activity might cause the disqualification of the participants.
- ❖ All the participants will get Participation certificate.
- ❖ Winner and Runner-up candidates will get prizes.

For your queries: Mrs.V.Diana Earshia, 9500342021



**Vel Tech**  
Ranganathan Dr. Sagunthala  
VIT Institute of Science and Technology  
Chennai - 600 160

**SCHOOL OF ELECTRICAL AND COMMUNICATION  
DEPARTMENT OF ELECTRONICS & COMMUNICATION  
ENGINEERING**

**Association of Communication Engineers**

**Rizzle Mania**

**Make your presence on**  
30.03.23  
– Prelims – Dumb Charades  
– Mains – Memes making  
1522 – Smart Room  
3.00 pm

- ❖ Competition will be held in Offline mode.
- ❖ Candidates can participate in groups of 3 or 4.
- ❖ The competition is open to all interested candidates.
- ❖ Participants have to carry their own gadgets.
- ❖ Any kind of vulgarity or offensive matter. Any such activity might cause the disqualification of the participants.
- ❖ All the participants will get Participation certificate.
- ❖ Winner and Runner-up candidates will get prizes.

For your queries: Mrs.V.Diana Earshia, 9500342021

# Events Organized

## ACADEMIC YEAR 2022-23

### Club Activities :



CREATIVE BUILD



Non-Technical quiz



MATLAB CODING CONTEST



PYTHON CODING CONTEST



ROBOTIX 2022



ROBOTIX 2022

# Events Organized

## ACADEMIC YEAR 2022-23

### Club Activities :



# Events Organized

ACADEMIC YEAR 2022-23

## Club Activities :



# Events Organized

ACADEMIC YEAR 2022-23

## Conference (ICSSTA 2023)



# Events Organized

ACADEMIC YEAR 2022-2023



# Minor Project Work (2022–23)



**Communication  
systems**



**Signal  
processing**



**Networking**



**Embedded  
systems**



**VLSI design**

## ***Top Projects:***

*Students Name: Shivanshu Sharma, Vikash Anand, Shubham*

*Project Title: Biomedical sensor network for cardiovascular fitness and activity monitoring*

*Students Name: Kotapati Venkata Sasi Kiran Reddy, Yeruva Maheswarareddy, Yakkanti Venkata Sri Charan Reddy*

*Project Title: Smart electronic nose for medical diagnosis centre*

*Students Name: Guduru Ganesh Kumar Raju, Avula Sandeep Reddy, Elisetty Pavan Kumar*

*Project Title: Smart wearable stress relief device*

*Students Name: Kalisetti Chiru Satyahas, Kothamasu Anhya, Parisa Vamsi Krishna*

*Project Title: Prototype development of wireless electronic notice board display through smart phone control*

*Students Name: A.Tharun, R.Rakesh, M.Pranay Kumar*

*Project Title: Ultrasonic vibrator glove for blind*

*Students Name: T Ganesh Kumar, S Akhileswari, Doddala Sreeja*

*Project Title: Design and Implementation of FSS based Absorber for Radome Application*

*Students Name: P Ganga Ganesh, Y Nanda Kumar, CH Siva Reddy*

*Project Title: Automatic lesion detection of diabetic retinopathy using iot*

*Students Name: A Nani, K Deepak, M Durga Sagar*

*Project Title: Tracking a single object using range-only measurements for radar sensors with a narrow field of view (FOV)*

*Students Name: L Chethan, N Sudeepthi, D Bhagath Chowdary*

*Project Title: Design of textile antenna for biomedical applications*

*Students Name: G Giridhar, V Vamsi Krishna, G Vamsi Krishna*

*Project Title: Pin diode based fire sensor*

*Students Name: P V V Sai Ram, G Manikanteswar, B Nithin Sai*

*Project Title: Under water wireless optical communication system*

# Major Project Work (2022–23)



**Communication  
systems**



**Signal  
processing**



**Networking**



**Embedded  
systems**



**VLSI design**

## ***Top Projects:***

*Students Name : S Ganesh*

*Project Title: IOT based smart parking system in industry and institution*

*Students Name: R.Venkata Karthik, V.Harshavardhan, D.Dileep Kumar*

*Project Title: An interactive surveillance system for elderly care patients*

*Students Name: Putturu Guru Thulasi Ram, Balisetty Yaraswani, Sanduri Vijay Varma*

*Project Title: A block chain enabled authenticating system for healthcare supply chain systems*

*Students Name: S Sravani, D Joshna, M Muni Kumar, P Manaswini, L Sai Laxmi, CH Tejasree*

*Project Title: All optical terenary multiplexer for dense wavelength*

*Students Name: S Krishna Prasad, S Jaya Siddhartha, M Sashagiri*

*Project Title: Graphene composite coating customization for antenna erip corrections in satellite applications*

*Students Name: Kondreddy Issac, Koyyana Sangeetha, K Bhavya*

*Project Title: Quantum learning and alzheimer's disease classification*

*Students Name: Kolluru Muni Keerthi, Bhogavalli Vijaykiran, Sura Chandsresh Reddy*

*Project Title: Change detection in aerial images using machine learning techniques*

*Students Name: A Balakrishna, Galla Sreeranjana, P Vishnu Priya*

*Project Title: FPGA implementation of yolo cnn for object detection*

*Students Name: Jarugumalli Siva Pradeep, K Jyothi Swaroop Reddy, Kotakonda Deepak*

*Project Title: Human teeth disease detection using refractive index based surface plasmon resonance biosensor*

# Student's Industry Major Project Work Details



## ***Top Projects:***

*Students Name: Jaya Sai Teja, M N Prashanth Sai, Pradumn Kumar*  
*Project Title: Evolution of printed circuit boards used in vehicle instrument clusters*  
*Company Name: Tescom*

*Students Name: Punugu Sruthi, P.V.N.Ravi Teja*  
*Project Title: Design and implementation of fpga for hrg application*  
*Company Name: Research Centre Imarat*

*Students Name: Challa Apoorva, Lakshmi Sainath, Koppisetty Soma Durga Prasad*  
*Project Title: Hourly based assembly line monitoring system*  
*Company Name: Harita Seating*

*Students Name: Dhivyadharshini, Sithale Akshaya Sai*  
*Project Title: Design and Implementation of USBasp Programmer with In-build Communication*  
*Company Name: Tescom*

*Students Name: Akash Reddy, Prathap Kumar B*  
*Project Title: IoT based smart irrigation system using LED lighting and node MCU*  
*Company Name: LED Chip Indus Pvt Ltd*

*Students Name: Dhanush B, Mangali Venkat Vineeth*  
*Project Title: Multi media transmission using Collasus/Omnion*  
*Company Name: Monica broadcasting pvt ltd*

*Students Name: R.Gaayathri, Ch.Rakesh*  
*Project Title: 3D mapping of environment using LIDAR*  
*Company Name: ZF Commerical Vehicle Systems*

*Students Name: R.Durga Kanaka Sainadh*  
*Project Title: Billing Website for Retail Business*  
*Company Name: TVS Electronics*



The students are encouraged to undertake various academic and non-academic activities through Professional Bodies and different clubs associated with the department and the Institute. In the department level we have the actively functioning “IEEE Signal Processing Society” and “IEEE Circuits and Systems Society”

The Department of Electronics and Communication Engineering successfully inaugurated the IEEE Student Branch Chapter of the IEEE Signal Processing Society on 13.05.2022. The Department of Electronics and Communication Engineering (ECE) organized the inauguration of the IEEE Circuits and Systems Student Branch Chapter on 25.04.23. IEEE Membership offers access to technical innovation, up-to-date information, networking opportunities, and member benefits. IEEE members enjoy reduced costs on many products and services like IEEE books, funding for projects, journals, conferences, society memberships, and continuing education courses.

IEEE Societies provide members with opportunities to connect with experts locally and abroad while staying up to date on technology and trends. The student members get a chance to develop their interpersonal skills, leadership skills and teamwork skills by making us involved in various event organizations and management.

- IEEE Student Membership Cost: 27 US Dollars Society
- Membership cost for students: 1 US Dollars

## IEEE Signal Processing Society:

### *Faculty Coordinator*



Dr. Rahul S G (TTS2865)  
Assistant Professor



Ms. Subha K J (TTS3332)  
Assistant Professor

# Professional Body



## Office Bearers:



Issac K (VTU14974)  
Chairman Membership  
No: 97093507 2019-23  
Batch



M. Jaswanth Reddy (VTU15253)  
Vice Chairman  
Membership No: 98016709  
2019-2023 Batch



P.V.N. Ravi Teja (VTU12958)  
Joint Secretary  
Membership No: 97716835  
2019-2023 Batch



Akula Tharun (VTU15233)  
Secretary  
Membership No: 98061430  
2019-2023 Batch



P. Jagadish Kumar  
(VTU14527)  
Treasurer  
Membership No: 98085359  
2019-2023 Batch



M. Karthik (VTU15834)  
Joint Treasurer  
Membership No: 98068630  
2019-2023 Batch



S. Sai Teja (VTU15318)  
Technical Activity Chair  
Membership No: 98164070  
2019-2023 Batch



B. Sai Raghav (VTU13260)  
Webmaster  
Membership No: 98068630  
2019-2023 Batch



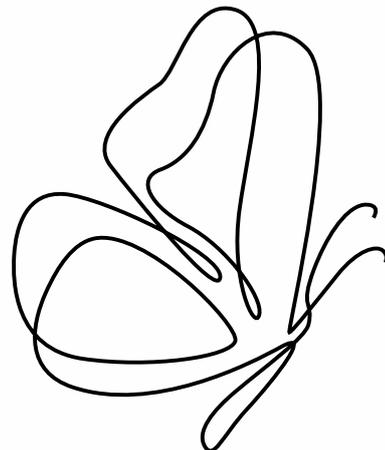
J. Rahul Babu (VTU13743)  
Joint Webmaster  
Membership No: 9806870  
2019-2023 Batch



Rakesh. R (VTU15234)  
Event Coordinator  
Membership No: 98065864  
2019-2023 Batch



Partho Adhikari (VTU16243)  
Event Coordinator  
Membership No: 98065028  
2019-2023 Batch





## IEEE CIRCUITS AND SYSTEMS SOCIETY

### Faculty Coordinator



Dr. G. Sasikala (TTS 369)  
Professor / ECE

### Office Bearers:



Himaja Paluru(VTU18147)  
Chairman  
Membership No: 98643835  
2020-2024 Batch



Harshit Manepalli (VTU17049)  
Vice Chairman  
Membership No: 98454008  
2020-2024Batch



A.Likhitha (VTU19382)  
Joint Secretary  
Membership No: :99285287  
2021-2025 Batch



Bhumika Devi.K(VTU17554)  
Secretary  
Membership No: 98742409  
2020-2024 Batch



Madhu Mallela (VTU17502)  
Treasurer  
Membership No: 98744865  
2020-2024 Batch



Sarah Nara (VTU14004)  
Joint Webmaster  
Membership No: 98742273  
2020-2024 Batch



Hussain Basha.S(VTU17077)  
Joint Treasurer  
Membership No: 98745922  
2020-2024 Batch



Manikanta Nasika(VTU17039)  
Technical Activity Chair  
Membership No: 98646972  
2020-2024 Batch



Poorna Chandra.B(VTU17038)  
Webmaster  
Membership No: 98746021  
2020-2024 Batch



Vinod Kumar.N(VTU13989)  
Event Coordinator  
Membership No: 98745757  
2020-2024 Batch



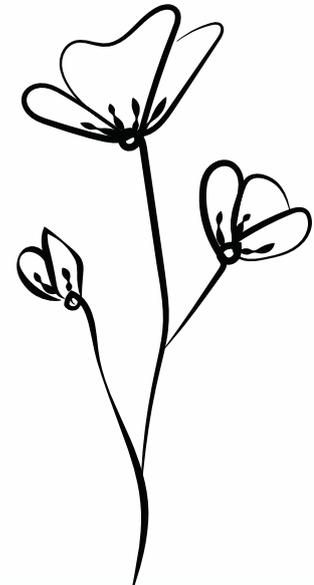
Waseem Shaik(VTU14003)  
Event Coordinator  
Membership No: 98745761  
2020-2024 Batch



Mallikarjuna.T(VTU17501)  
Event Coordinator  
Membership No: 98744794  
2020-2024 Batch



Sathvika.L(VTU16894)  
Event Coordinator  
Membership No: 98742392  
2020-2024 Batch



# Department Clubs



## Association of Communication Engineers

The Association of Communication Engineers (ACE) club of ECE department was inaugurated in the year 2015. The club organizes periodically non-technical events; Social and community outreach programs such as Guild of Service for the professional and psychological development of student engineers and acts as platform for the students to showcase their literary skills and creativity. It promotes fine arts, art appreciation, and interactive events. It also provides opportunities for the development of management and communication skills. The club focuses on both personal and professional growth of an individual as well as the growth of the club.



### **Faculty Coordinator**

Mrs. V. Diana Earshia  
Assistant Professor -ECE

## Programming Club



The Programming Club in ECE department empowers the students of ECE, competitive in programming skills and contemporary technologies. The club periodically conducts value added courses by which the students will be proficient in different programming platform and complete the programming hackathon in wide international level.

### **Faculty Coordinator**

Dr. Dasari Naga Vinod  
Assistant Professor



# Department Clubs

## Engineers Without Borders Club

The students are encouraged to undertake various academic and nonacademic activities through Professional Bodies and different clubs associated with the department and the Institute. We have “Engineers Without Borders Club” at department level. Engineers Without Borders India builds a better world through engineering projects that empower communities to meet their basic human needs. Our highly skilled volunteers work with communities to find appropriate solutions for their infrastructure needs. This Motivation EWB Club was inaugurated in our department on the date 12 September, 2020. EWB India is an Evolving Network of Humanitarian Engineers and Other Professional in India. The vision of EWB is to nurture and motivate students and professionals to undertake real life sustainable social projects and create Global Leaders. The Mission of EWB is to partner with corporate & social organizations, involve students and professionals, and offer sustainable solutions in the areas of Water, Sanitation, Energy, Health & Education to improve the quality of life for common people. EWB Club provides members with opportunities to connect with experts locally and abroad while staying up to date on technology and trends. The student members get a chance to develop their interpersonal skills, leadership skills and teamwork skills by making us involved in various event organizations and management.



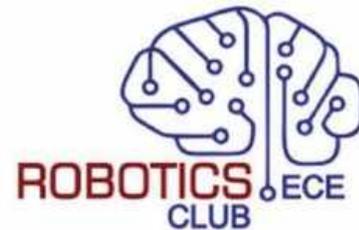
### **Faculty Coordinator**

Dr.S.Vijayalakshmi  
Assistant Professor

# Department Clubs

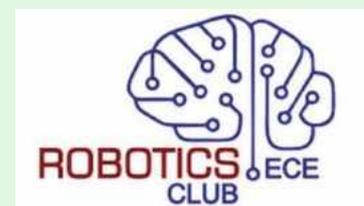
## ROBOTICS CLUB

Robotics club at ECE department was inaugurated in the year 2018 that strives to stimulate interest in robotics among undergraduate students in the department. The Club offers essential guidance, workshops and tutorials along with tools, equipment, components and workspace by which students will be proficient to compete national and international level robotics contests. Robotics club provide members with opportunities to connect with experts locally and abroad while staying up to date on technology and trends. To conduct competitive events based on Robotic projects. The intentions are to provide technical support to the interested participants of Robotic competitions.

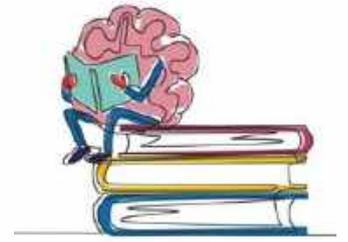


### **Faculty Coordinator**

Dr. M. Anandan  
Associate Professor



# 2019-2023 Batch Students- Internship



## INTERNATIONAL UNIVERSITY

Karaka Teja

“Automatic detection of LED colour via Machine Learning on a Micro Controller”



Khiran Kumar

“Identification and qualification of pesticide using impedance-capacitance measurement and AI model”



David Honesty Babu

“AI and ML - Enablers of Self-Organization Networks(4G SON) and Radio Intelligent Controller (5G RIC)”



Kaushik Ganguli

“Driver behavior Analysis of Heavy Duty vehicles based on CAN SAE J1939 data”



M.Karthik

“Block chain enabled pharmaceutical supply chain in the post pandemic era using iot”



# 2019-2023 Batch Student Internship

Students Name: Jaya Sai Teja, M N Prashanth Sai, Pradumn Kumar  
Project Title: Evolution of printed circuit boards used in vehicle instrument clusters  
Company Name: Tescom

Students Name: Punugu Sruthi, P.V.N.Ravi Teja  
Project Title: Design and implementation of fpga for hrg application  
Company Name: Research Centre Imarat

Students Name: Challa Apoorva, Lakshmi Sainath, Koppisetty Soma Durga Prasad  
Project Title: Hourly based assembly line monitoring system  
Company Name: Harita Seating

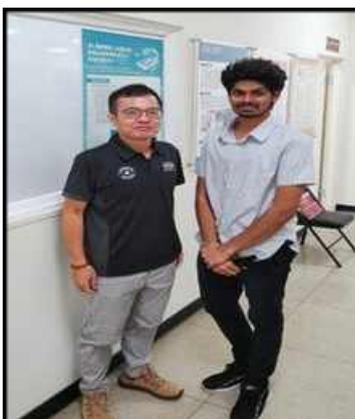
Students Name: Dhivyadharshini, Sithale Akshaya Sai  
Project Title: Design and Implementation of USBasp Programmer with In-build Communication  
Company Name: Tescom

Students Name: R.Gaayathri, Ch.Rakesh  
Project Title: 3D mapping of environment using LIDAR  
Company Name: ZF Commerical Vehicle Systems

Students Name: Dhanush B, Mangali Venkat Vineeth  
Project Title: Multi media transmission using Collasus/Omniion  
Company Name: Monica broadcasting pvt ltd

Students Name: Akash Reddy, Prathap Kumar B  
Project Title: IoT based smart irrigation system using LED lighting and node MCU  
Company Name: LED Chip Indus Pvt Ltd

Students Name: R.Durga Kanaka Sainadh  
Project Title: Billing Website for Retail Business  
Company Name: TVS Electronics



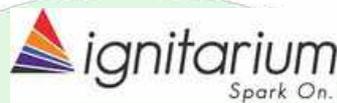
# 2019-2023 Batch Student Placement

## Company wise placed student list



- 10 students have been placed in DXC Technologies with 4 LPA.
- 2 students have been placed in TCS Digital with 7 LPA.
- 34 students have been placed in TCS NINJA with 4 LPA.
- 2 students have been placed in Cognizant with 4 LPA with skill bonus.
- 88 students have been placed in Cognizant with 4 LPA.
- 47 students have been placed in Accenture with 4.5 LPA.
- 7 students have been placed in LTI with 4 LPA.
- 1 student has been placed in Aptean with 5.5 LPA.
- 2 student have been placed in Sasken Technologies with 5 LPA.
- 7 students have been placed in Embitel Technologies with 5 LPA.
- 7 students have been placed in Open Text with 9 LPA.
- 1 student has been placed in Odessa Technologies with 7.5 LPA.
- 7 students have been placed in Kaar Technologies with 6.5 LPA.
- 1 student has been placed in Ignitarium Technologies with 5 LPA.
- 58 student have been placed in Capegemini where 1 student placed with 7.5 LPA and 57 under 4.25 LPA.
- 5 students where each of them are placed in M/s. MountBlue Technologies with 4 LPA, Microchip with 10 LPA, ThoughtClan Technologies with 6 LPA, M/s. Sirius with 5 LPA and M/s. Hundai Motors with 7.87 LPA respectively.
- 5 students have been placed in AUTOMATIVE ROBOTICS with 3 LPA.
- 1 student has been placed in M/s. Data patterns with 4.2 LPA.
- 3 students have been placed in M/s. Nihilent with 4 LPA.
- 5 students have been placed in M/s. CGI with 3.93 LPA.
- 5 student have been placed in TATA ELXSI with 5 LPA.
- 1 students has been placed in M/s. Blue Binaries with 1 LPA.
- 7 student have been placed in Virtusa with 5.5 LPA.
- 3 students have been placed in CTS with 4 LPA and 6.75 LPA.
- 1 student has been placed in Acies Global with 5 LPA.
- 1 student has been placed in Infosys with 3.6 LPA.
- 1 student has been placed in Mu SIGma with 5 LPA.
- 2 students have been placed in Infosys with 7.25 LPA.
- 1 student has been placed in Walmart with 8.14 LPA.

# 2019-2023 Batch Student Placement



# 2019-2023 Batch Student Placement

<b>S.No</b>	<b>Details</b>	<b>Count</b>
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 be placed	115
7	Total No. of Companies visited	54
8	Min. Package offered	2.75 LPA
9	Max. Package offered	10 LPA

# 2019-2023 Batch Students- Founders Foreign studies Scholarship

Bon Voyage No: 667

Student Name: Rakesh Kasula

VTU No/Dept: 11125/ECE

Batch: 2019-2023

Date of Joining: 29/04/2023

Program: M.S-Computer Science

University Name: The University of Memphis, USA



# Roadmap to Get Dream/Core Job in Electronic and Communication Engineering Field

## II YEAR

- Master in Electronics Core Fundamentals
- Precision in Electronics Circuit Design and Building
- Master programming concepts in MatLab, Python, VHDL, Embedded C and Assembly Language
- Proficient in Implement and Operate Electronics Equipment Hardware

- Master in any one ECE Specialization through Programme Electives
- Communication Systems
- Signal Processing
- Smart systems Domain
- Master higher order skills in the Chosen Specialization through Integrated Courses.

## III YEAR

## IV YEAR

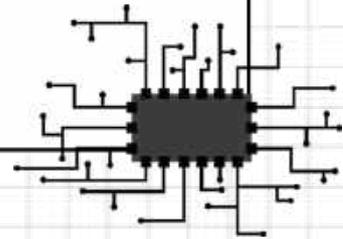
- Faculty Experts in department
- Choose projects (related to the specialization mastered in III year) offered by Industry
- Professors in Institutes Abroad
- Become Industry Ready Engineer through project work



# SKILLS IMPARTED THROUGH PROGRAM ELECTIVE

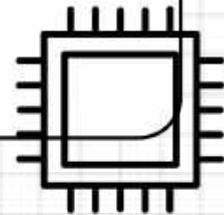
## EMBEDDED SYSTEMS DOMAIN

ECS and PCB Design  
Virtual Instrumentation  
RTOS  
Embedded System and Robotics  
Embedded C Programming



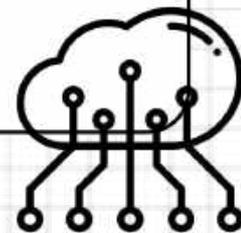
## VLSI DESIGN DOMAIN

Reconfigurable Computing with FPGA  
Physical Design of CMOS  
SoC  
Analog VLSI Design



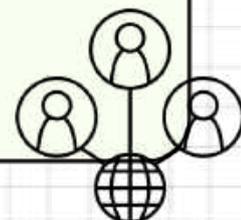
## SIGNAL PROCESSING DOMAIN

Basics of Python Programming  
Professional Python Programming  
Digital Image Processing  
Fundamentals of Machine Learning  
Machine Learning



## COMMUNICATION DOMAIN

Antenna Design Techniques  
EMI/EMC  
MIMO Wireless Communication  
SDR



## NETWORKING DOMAIN

IoT  
Wireless Adhoc and Sensor Networks  
SDN  
Cognitive Radio Networks





# ***EDITORIAL TEAM***

## **Data Collection**

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**DR. ASHVANTH B**  
Associate Professor

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**DR. D.DAVID NEELS PONKUMAR**  
Professor

**DR. A. SELWIN MICH  
PRIYADHARSON**  
Professor and Head

## **Editing & Graphics Design**

**SURYA S (VTU 11569) 8<sup>TH</sup> SEMESTER**  
**K NEELI MADHAV REDDY (VTU 18321) 6<sup>TH</sup>**  
**SEMESTER**  
**VISHNUVARDHAN (VTU 21140) 4<sup>TH</sup> SEMESTER**





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

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## Join Our Community

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