



VISWAJYOTHI

COLLEGE OF ENGINEERING & TECHNOLOGY

Approved by AICTE New Delhi & Affiliated to APJ Abdul Kalam Technological University

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Zealous

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING



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INSTITUTE VISION

“Moulding Professionals par Excellence with Integrity, Fairness and Human Values”.

INSTITUTE MISSION

1. We commit to develop the institution as a Center of Excellence of International Standards
2. We guide our students in the attainment of intellectual and professional competence for successfully coping with the rapid advancements in technologies and the ever changing world of business, industry and services
3. We help each and every student in their personal growth into mature and responsible individuals
4. We strive to cultivate a sense of social and civic responsibility in our students, thus empowering them to serve humanity.
5. We promise to ensure a free environment where quest for the truth is encouraged

DEPARTMENT VISION

“Moulding Electronics Engineers with Professional Competence and Global Outlook.”

DEPARTMENT MISSION

- To create a vibrant academic ambience conducive for progressive learning.
- Build up excellent infrastructure and lab facilities to train the students in the current & emerging technology.
- Maintain well qualified faculty who are willing to upgrade their knowledge continuously.

- Groom students towards successful careers by facilitating industry-institute relationships and value addition through regular skill-development programmes.

PROGRAM EDUCATIONAL OBJECTIVES (PEOs)

Our Graduates shall be

- Suitably employed in allied industries/services with professional competency and knowledge of modern tools.
- Capable of developing economically viable, technically feasible eco friendly electronic systems.
- Capable to pursue higher studies/research in the field of interest.

PROGRAM SPECIFIC OUTCOMES (PSO)

Students will be able to

1. Analyze and modify electronic products which will find applications in the field of communication and automation.
2. Apply the concepts of signal processing and develop algorithms to solve real-world electronics and communication engineering problems.
3. Design and manage cost effective low power electronic systems to address global challenges with a strong social commitment and ethical values.

NEWSLETTER



HOD'S MESSAGE

Welcome to the department of Electronics & Communication Engineering, Viswajyothi College of Engineering & Technology, Vazhakulam, Kerala. We started our journey in the year 2001 with the aim of providing leadership in the field of Electronics & Communication Engineering with an intake of 30 students. The department is accredited by National Board of Accreditation (NBA) with a current intake of 60 students. We also have NAAC accreditation at institute level, with "A" grade.

The department has a team of well qualified and experienced faculty members and technical supporting staff, who dedicatedly work for molding electronics engineers with professional competence and global outlook. We have excellent infrastructure and state-of-the-art laboratories to equip our students in the areas of Electronic Circuit Design, Communication Systems, Digital Signal Processing, Embedded Systems, Microwave Devices, Computer Simulations, Fiber Optic Communication etc. All laboratories are well equipped with required hardware and simulation software. The student projects are conducted in-house with the guidance of department faculty and industrial trainers. The 4-year B.Tech. program is also sandwiched with seminars & workshops in collaboration with industries, based on current technological trends, industrial visits, industrial internships etc., in order to achieve a balance between academic knowledge and practical experience that enable them to serve industry and societal needs.

Apart from strictly adhering to academic curriculum, various co-curricular and extracurricular activities take place at department level and institute level. Students are given opportunities to involve in professional bodies such as IEEE and IETE student chapter activities which help students to gain confidence in showcasing their technical skills. Students are encouraged to participate in arts fest, technical fest, sports etc. at intra-college and inter-college level competitions. We have a very good job placement record. Our graduates are working in governmental organizations, national & multinational companies, defence services, and academic institutions in India and abroad. In all our endeavors, we seek God's blessings to keep us on the path of righteousness, wisdom and courage. May God bless us in all our efforts to mould better quality engineers, who can make a positive impact in our society and help to build our nation in this dynamic and challenging world.

With warm regards and best wishes...

Dr. Naveen Jacob



PRINCIPAL'S MESSAGE:

As all of you know electronic engineers are in demand across various industries like telecommunications, consumer electronics, automotive healthcare and manufacturing. Today the industry requires electronics engineers with expertise in embedded systems, microcontrollers, IoT and wireless technologies. To excel in your field continuous learning is essential. Try your best to get updated with the latest technologies and industry trends. Gaining practical experience is also very important. Wish you all the best for a bright future

Dr.K.K.Rajan

FACULTY DEVELOPMENT PROGRAM / WORKSHOP

1) Smitha Cyriac :

1. Digital Manufacturing, 15th-19th June 2024, Dept of Mechanical Engineering, MIT Kattacira.
2. Recent Trends in Biomedical Applications using AI, 29th January- 2nd February, Dept. of Biomedical Engineering, St. Peters Institute of Higher Education and Research, Chennai

2) Anitta Thomas :

1. Digital Manufacturing, 15th-19th June 2024, Dept of Mechanical Engineering, MIT Kattacira.
2. Recent Trends in Biomedical Applications using AI, 29th January- 2nd February, Dept. of Biomedical Engineering, St. Peters Institute of Higher Education and Research, Chennai

3) Niji Mathews :

1. Digital Manufacturing, 15th-19th June 2024, Dept of Mechanical Engineering, MIT Kattacira.
2. Recent Trends in Biomedical Applications using AI, 29th January- 2nd February, Dept. of Biomedical Engineering, St. Peters Institute of Higher Education and Research, Chennai

4) Rose Maria Jose :

1. Digital Manufacturing, 15th-19th June 2024, Dept of Mechanical Engineering, MIT Kattacira.
2. Recent Trends in Biomedical Applications using AI, 29th January- 2nd February, Dept. of Biomedical Engineering, St. Peters Institute of Higher Education and Research, Chennai.

5) Merlin Thomas:

1. VLSI RTL Design & Verification Using Synopsys Tool, VLSIGuru, February 2024

2. Operation and Control of Modern Power System, Dept. of Electrical Engg, RIT, Rajaramnagar and RIT -IEEE student branch, 5th-10th February 2024(6 days)

6) Cuckoo Anitha Joseph :

- 1) Digital Manufacturing, 15th-19th June 2024, Dept of Mechanical Engineering, MIT Kattacira.
- 2) Recent Trends in Biomedical Applications using AI, 29th January- 2nd February, Dept. of Biomedical Engineering, St. Peters Institute of Higher Education and Research, Chennai

7) Anu Rani Philip :

1. Recent Trends in Biomedical Applications using AI, 29th January- 2nd February, Dept. of Biomedical Engineering, St. Peters Institute of Higher Education and Research, Chennai.

8) Anish M Jose:

1. Operation and Control of Modern Power System, Dept. of Electrical Engg, RIT, Rajaramnagar and RIT -IEEE student branch, 5th-10th February 2024(6 days)

PROGRAMS ORGANIZED BY THE DEPARTMENT

Workshop on Embedded Programming and Robotics was organized by Dept. of ECE with Mr. Varghese Benny, CEO, Rabbitsquare for S6 ECE students on February 19th and 20th 2024.



A Workshop on Raspberry Pi was organized by the Department of ECE in association with AESTER INDIA (P) LTD from 21st March to 22nd March 2024 for S8 ECE students



PAPER PUBLICATIONS BY FACULTY

- Ms. Merlin Thomas presented a paper titled "HEXAPOD ROBOT", in VLES'24, 16th National Conference on VLSI, Signal Processing and Communication organized by Department of Electronics & Communication Engineering, VJCET on 30th April 2024.
- Mr. Manu Jose presented a paper titled "FACE RECOGNITION BOT ", in VLES'24, 16th National Conference on VLSI, Signal Processing and Communication organized by Department of Electronics & Communication Engineering, VJCET on 30th April 2024.
- Ms. Anitta Thomas presented a paper titled "SOLAR POWERED SMART CAR PARKING SYSTEM WITH SUN TRACKING TECHNOLOGY", in VLES'24, 16th National Conference on VLSI, Signal Processing and Communication organized by Department of Electronics & Communication Engineering, VJCET on 30th April 2024.
- Ms. Cuckoo Anitha Joseph presented a paper titled "VIGILANT DRIVE: AN ADVANCED DRIVER DROWSINESS DETECTION", in VLES'24, 16th National Conference on VLSI, Signal Processing and Communication organized by Department of Electronics & Communication Engineering, VJCET on 30th April 2024.
- Ms. Niji Mathews presented a paper titled "MILITARY SECURITY WAGON", in VLES'24, 16th National Conference on VLSI, Signal Processing and Communication organized by Department of Electronics & Communication Engineering, VJCET on 30th April 2024.
- Ms. Vinija Kurian presented a paper titled "Approach of Transfer Learning in Remote Sensing Image Classification" in the 1st International Conference on Trends in Engineering Systems and Technologies (ICTEST), MEC Kochi on Apr 11, 2024.

NATIONAL CONFERENCE VLES'24

The Department hosted the 16th National conference on VLSI, Signal Processing & Communication, VLES'24 on 30th April 2024, for which the keynote speaker Dr. Poornima S, Asst. Prof, Department of Electronics, Cochin University of Science & Technology, has delivered a technical talk on, "Recent Advancements Towards 5G and Beyond". Dr. Tony D, Associate Professor, ECE Dept. and Ms. Rose Maria Jose, Asst. Professor, ECE Dept. were the staff coordinators. Around 10 papers were presented and selected few were published in the biannual journal of VJCET-Technology & Future.



INDUSTRIAL VISIT

S4 ECE

The Department of Electronics and Communication Engineering of Viswajyothi College of Engineering and Technology, Vazhakulam had arranged an industrial visit for the 4th semester students on 17th February 2024, Saturday. Sooraj K Regi and Athira Rajendran were the student coordinators of the Industrial visit. There were 57 students accompanied by 2 faculty members, Ms. Ranjini Surendran (Group Tutor) and Mr. Manu Jose (Assistant Tutor). As part of the Industrial Visit, they visited Keltron, Thiruvananthapuram.

S8 ECE

The 3-day industrial visit for 8th semester students were organized from 14th to 16th March 2024. Mr. Dijo Sebastian was the student coordinator of the Industrial visit. There were 31 students accompanied by 2 faculty members, Ms. Rose Maria Jose (Group Tutor) and Mr. Tony D. As part of the Industrial Visit, they visited All India Radio (FM), Kodickanal and Kannan Devan Tea Museum outlet Munnar.

IETE

The Institute of Electronics and Telecommunication Engineers (IETE) Student's Forum, is a forum functioning under the Department of Electronics and Communication Engineering. IETE Students Forum organized a workshop on "Software Defined Radio" for S6 ECE students on 19th March 2024. The resource person was Mr. Ajith Peter, Director, Asnaviram Networks Pvt. Ltd, Palakkad. Also for the faculty members and technical staff, Mr. Rakesh Peter, Director, Asnaviram Networks conducted a training on Software Defined Radio.

Workshop on "Software Defined Radio"



IETE Students Forum has also conducted a technical talk on "Introduction to VLSI Design Flow" by Mr. Rahul Sajeeth Mohan, VJCET Alumnus (2018 – 2022 ECE Batch) on 7th May 2024 for S6 and S8 ECE students.

STUDENT ACHIEVEMENTS



Athul Ranjith S6 ECE
Qualified GATE 2024 in both stream
ECE and EE



Dewlin M Joshy
Best Outgoing Student &
Branch Topper(2020-24 batch)

Best Project Award from ECE Dept. for the academic year 2024:

Project Name: AUTOMATIC SPEED CONTROL OF VEHICLES IN SPEED LIMITED ZONES. Team Members:Mr.Mishal Saji, Mr. Stelvin Stephan, Mr.Tomin Thomas Project Guide: Mrs. Vinija Kurian, Assistant Professor

GRADUATION DAY

2024 Batch



Amy Cherian, S7 EC
ECE Association Secretary



Staff Editor
Ms. Merlin Thomas, AP, ECE