

Jyothi Engineering College

NAAC Accredited College with NBA Accredited Programmes*

Approved by AICTE & affiliated to APJ Abdul Kalam Technological University

A CENTRE OF EXCELLENCE IN SCIENCE & TECHNOLOGY BY THE CATHOLIC ARCHDIOCESE OF TRICHUR

JYOTHI HILLS, VETTIKATTIRI P.O, CHERUTHURUTHY, THRISSUR. PIN-679531 PH : +91- 4884-259000, 274423 FAX : 04884-274777



NBA accredited B.Tech Programmes in Computer Science & Engineering, Electronics & Communication Engineering, Electrical & Electronics Engineering and Mechanical Engineering valid for the academic years 2016-2022. NBA accredited B.Tech Programme in Civil Engineering valid for the academic years 2019-2022.

ELECONS

Department Of Electronics & Communication Engineering

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

2019-2023

TRECONICLES PRESENTS **MAGAZINE**



CREATING TECHNOLOGY
LEADERS OF TOMORROW
ESTD 2002

VISION OF THE INSTITUTE

Creating eminent and ethical leaders through quality professional education with emphasis on holistic excellence.

MISSION OF THE INSTITUTE

- To emerge as an institution par excellence of global standards by imparting quality engineering and other professional programmes with state-of-the-art facilities.
- To equip the students with appropriate skills for a meaningful career in the global scenario.
- To inculcate ethical values among students and ignite their passion for holistic excellence through social initiatives.
- To participate in the development of society through technology incubation, entrepreneurship and industry interaction.

VISION OF THE DEPARTMENT

Create eminent and ethical leaders in the field of Electronics and Communication through quality professional education to excel in academia and industry.

MISSION OF THE DEPARTMENT

- Provide theoretical and practical knowledge through quality education and life skills training to make competent graduates with leadership and social commitment.
- To impart entrepreneurial orientation and motivation for research among the students through knowledge transfer between industrial, academic & research institutions

PROGRAMME EDUCATIONAL OBJECTIVES (PEOS)

PEO I : Graduates shall have fundamental and advanced knowledge in electronics and communication engineering along with knowledge in mathematics, science and computing and get employed in national or international organizations or government agencies.

PEO II : Graduates shall have ability in analyzing, designing and creating innovative solutions which lead to a lifelong learning process or higher qualification, making them experts in their profession thus helping to solve electronics & communication engineering and social problems.

PEO III: Graduates shall have good organizing capabilities, presentation skills, communicating ability, leadership, team work and ethical practices.

PROGRAMME SPECIFIC OUTCOMES (PSO's)

Graduate possess:

- Professional skills: Associate the concepts related to Electronics, Communication, Embedded Systems, Signal Processing and VLSI to solve real life problems.
- Problem solving ability: Comprehend technology advancement to analyze and design systems using modern design tools for the benefit of the society.
- Lifelong learning and ethical Values: Have good communication skills, work as a team, develop leadership qualities, become professionals or entrepreneurs with ethical values.

PROGRAMME OUTCOMES (POS)

Engineering Graduates will be able to:

1. Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
2. Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
3. Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
4. Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
5. Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
6. The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
7. Environment and sustainability: Understand the impact of the professional engineering



solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

8. Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
9. Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
10. Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
11. Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
12. Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

LETTER FROM OUR HOD



Dear Readers,

I'm delighted to present to you the latest edition of our department's technical magazine. Packed with student achievements, project expos this publication showcases the exceptional talent and dedication of our students.

Your engagement and feedback are invaluable as we continue to push the boundaries of knowledge in our field.

Thank you for your support and enthusiasm for our department's endeavors.

Best regards,

DR. SINDHU S

HOD , ECE

CLASS MEMBERS



ADITYA K JYOTHIRAJ



AGNA ABRAHAM



AISWARYA HARIHARAN



ALEN PAUL



ANAGHA M



ANJALI ARAVIND



ANJALI K



ANN MARIE RAJAN



ASHBAN SHYJAN



BHAVANA VIJAYAN



C AKSHAY RAJ



CHRIS NOYAL TS



CHRISWIN LINGSON



DAVID JOSEPH



DIVYA SASIKUMAR NAIR



DONY BABU



GOKUL P



HELNA JOY



JOSEPH JAISON P



JOSHWIN BABU



M FATHIMA NAZRIN



NAVEEN RAJESH



SANA SAID



SANHA SALAM



SANU RAJ KR



SAYANA S



SUMYUKTHA V K



SREEHARI V

CLASS TOPPERS IN UNIVERSITY SEMESTER EXAMS

Semester -1



DIVYA SASIKUMAR NAIR



SANA SAID



DAVID JOSEPH

Semester - 2



DIVYA SASIKUMAR NAIR



DAVID JOSEPH



SANA SAID

Semester - 3



SANA SAID

DIVYA SASIKUMAR NAIR

DAVID JOSEPH

Semester - 4



SANA SAID

DIVYA SASIKUMAR NAIR

JOSHWIN BABU

Semester - 5



SANA SAID

DIVYA SASIKUMAR NAIR

JOSHWIN BABU

Semester - 6



SANA SAID

DIVYA SASIKUMAR NAIR



JOSHWIN BABU



DAVID JOSEPH

Semester – 7



SANA SAID



DIVYA SASIKUMAR NAIR



JOSHWIN BABU

Semester - 8



ALEN PAUL



ANJALI K



SANA SAID



JOSHWIN BABU



STUDY TOURS

Visit to Tea Farm at Munnar, Idukki Dt. on 26th of May 2022



Visit to Wind farm at Ramakalmedu, Idukki Dt. on 27th of May 2022



Visit to Idukki Dam, Idukki Dt. on 28th of May 2022



Visit to Taj Mahal, Agra on 27th of February 2023



Visit to India Gate, Delhi on 28th of February 2023



Visit to Shimla, Himachal Pradesh on 1st of March 2023



Visit to Rock Garden, Chandigarh on 2nd of March 2023

INDUSTRIAL TRAINING



3 days internship at Torch Infotech, Edappally, Ernakulam on 27,28,29th of December 2021



Industrial Visit at Mother Dairy Plantation, Patparganj, New Delhi on 28th February 2023



Naveen Rajesh, Chris Noyal, Sanu Raj, Joshwin Babu, Gokul P & Alen Paul underwent a training on IOT in present and future organised by 6D technologies at College of Engineering Munnar on 15th of October 2022



Chriswin Lingson underwent industrial training at TATA Technologies, Hinjewadi, Pune on 9,10 & 11th of December 2022.



ISTE Student Chapter in association with ECSA, has conducted a one day workshop on "ROBOTICS as an Education Tool In Engineering" by Dr. Sreekanth Madhavan,CEO,Kabani Tech, Palakkad on 21st October 2022

EXTERNAL INTERACTIONS



Visit to Grace Mount Special School, Mullurkara as part of Christmas celebration on 22nd of December 2022



Workshop conducted on the topic Developing prototype using embedded system at Sarvdaym Vocational Higher Secondary school, Aryanpadam, Thrissur by Chriswin Lingson, David Joseph & Gokul P on 31st of October 2022



9th National Srishti expo conducted by Saintgits College of Engineering Kottayam to exhibit the project named "Biocompatible Ultra Wide Band Microstrip Antenna For Implantable Devices" on March



ISTE Student Chapter in association with ECSA, has conducted a two-day workshop on “Introduction to OVERLEAF” for the third-year students by Helna Joy, C Akshay Raj, Gokul P & Sayana on 2nd of February 2023