



Jyothi Engineering College

Reaccredited with NAAC (Grade A) and NBA Programmes*

Approved by AICTE and Affiliated to APJ Abdul Kalam Technological University

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

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*NBA accredited BTech Programmes in Civil Engineering, Computer Science and Engineering, Electronics and Communication Engineering, Electrical and Electronics Engineering and Mechanical Engineering valid till 2025, Mechatronics Engineering valid till 2026

Creating Technology Leaders of Tomorrow



Core Values

| Faith in God and Man | Love of fellow beings | Belief in Universal Citizenship | Moral integrity | Social commitment |

Vision

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



- ▶ 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.



Department of Computer

Science & Engineering

Department Vision

Creating ethical leaders in the domain of Computational Sciences through quality professional education with a focus on holistic learning and excellence

Department Mission

To create technically competent and ethically conscious graduates in the field of Computer Science and Engineering by encouraging holistic learning and excellence.

To prepare students for careers in Industry, Academia and the Government.

To instill Entrepreneurial Orientation and research motivation among the students of the department.

To emerge as a leader in education in the region by encouraging teaching, learning, industry and societal connect.

Programme

Educational Objectives

The graduates shall have sound knowledge of Mathematics, Science, Engineering and Management to be able to offer practical software and hardware solutions for the problems of industry and society at large.

The graduates shall be able to establish themselves as practicing professionals, researchers or entrepreneurs in computer science or allied areas and shall also be able to pursue higher education in reputed institutes.

The graduates shall be able to communicate effectively and work in multidisciplinary teams with team spirit demonstrating value driven and ethical leadership.

Programme Outcomes

Students in the programme at the time of their graduation are expected to possess the following capabilities :

- 1. Ability to apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.*
- 2. Ability to identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.*
- 3. Ability to 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. Ability to 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. Ability to 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. Ability to 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. Ability to understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

8. Ability to apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

9. Ability to function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings

10. Ability to 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. Ability to 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. Ability to 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.

Department Major Activities

Gate Orientation Program

Department of Computer Science and Engineering organized an orientation program aimed to familiarize students with the structure and format of the GATE exam, including the syllabus and examination pattern.



The program was designed for final-year students to provide information and guidance to individuals who were preparing for the Graduate Aptitude Test in Engineering (GATE). It was conducted in association with IET on 14th August 2023.

Competitive Coding Training Program

Competitive coding typically involves solving algorithmic problems within a specified time frame and is a common skill sought after by tech companies for software development roles. Department of Computer Science and Engineering from Jyothi Engineering College organized a competitive coding training program in association with Manifold Institute of Technical Education, Thrissur. The training took place on August 19th, 23rd and 24th, 2023. This training likely aimed to enhance the students' problem-solving skills, coding proficiency, and readiness for technical interviews or coding competitions.

Orientation Program for Second Year Students

Computer Science and Engineering Department provided an orientation program for third-semester students that typically aims to provide them with a comprehensive understanding of what to expect in their academic journey, along with guidance on various aspects related to their field of study and career prospects. The program was held on 5th September 2023. The program empowered students with the knowledge, skills, and resources they need to thrive academically, professionally, and personally throughout their course.



Technical Talk

NDLI Club in association with IE(I) Student chapter of the CSE department presented a session on "Career Blueprint". The session was handled by Sneha C Shaji (JECC Student) on 30th September 2023. The session gave an idea for the students about the trending job requirements and more.



Computer Engineering Students Association (CESA)

It is a student association run by students of the Computer Science department focuses on conducting workshops, technical and non-technical events. It was inaugurated on 26th October 2023 by Edison Franz a famous motivational speaker. The program was worthwhile because of his motivational talk to the students.



Typing Competition

Typing is a necessary skill for today's students. In our ever-evolving world, the ability to type fluently enables students to focus on what they're typing rather than how to type. Mulearn & IE(I) student chapter of CSE department conducted a typing competition for first-year students on 27th October 2023.

MATLAB AND SIMULINK :- Hands-On Workshop

Department of Computer Science and Engineering conducted a hands-on workshop on MATLAB AND SIMULINK for Engineering Applications for the

students. MATLAB and Simulink are powerful tools widely used in engineering applications. The session was led by Siva Subramanian (Application Engineer, CoreEL Technologies) on 30 & 31st October 2023. It was a fruitful session for the whole participants.



Mock Interview

A mock interview is an emulation of a job interview used for training purposes. The conversational exercise usually resembles a real interview as closely as possible, for the purpose of providing experience for a candidate. CSE Department conducted a Mock Interview for the final year CSE batch students on 8-9 November 2023 to help students to understand what is expected in a real job interview and can help a student to improve his or her self-presentation.

Tharang 2.0

Jyothi Engineering College organized a techfest on 10th and 11th November 2023. The event celebrated technology, innovation, and scientific advancements. As a part of it, the Department of Computer Science and Engineering conducted a wide range of activities such as tech exhibitions, competitions, workshops, and more. The most attracted events were a coding competition namely "In the Loop" for Inter College Students on 10th November. Another program was a competitive gaming event "Laser Tag 2.0" for these two days. In addition to that a marvelous event "Upshaq – Gaming room and Karaoke booth" was conducted. A Musical Event "Khwaab" was the main attractive event for the students. The whole program helped catalysts for fostering creativity and collaboration.

Christmas Celebration-2023

For remembering the true spirit of Christmas lies in kindness, compassion, and spending time with loved ones, the CSE department celebrated it on 16th December 2023. The staff members gifts exchanged to spread joy and create lasting memories.



Farewell

Members of CSE Department gathered to say a big goodbye to Mr. Anil Antony (Assistant Professor) who was leaving our college. It was conducted on 22nd December 2023. That party conveyed the message that he would be missed and remembered, and the staff also wished him good luck in his future endeavors.



Staff Achievements

Ms. Anumol C.S. presented a paper titled "Enhancing Neural Style Transfer With Gradient Loss for High-Quality Artistic Image Synthesis" at the 9th International Conference on Smart Computing and Communications at Muthoot Institute of Technology and Science, Kochi from 17-19 August 2023.



Ms. Sajitha I and Dr. Saju P. John published a paper namely "Review on Image Processing-Based Building Damage Assessment Techniques" in Proceedings of the Fourth Doctoral Symposium on Computational Intelligence on 17th September 2023.

Dr. Saju P. John inaugurated an Exhibition -cum- Skill awareness about NSQF Courses at Sarvodayam VHS School, Aryampadam on 27th October 2023.



Ms. Aswathy Wilson chaired a session at the National Conference on Emerging Frontiers in Medicine and Technology organized by Government Medical College, Thrissur on 25th & 26th November 2023.

Dr. Saju P. John delivered an invited lecture on Artificial Intelligence on Various Stages of Clinical Trail and chaired the session of the paper presentation competition in the international conference CONSIT 2023 on Artificial Intelligence – A Leap to Next Gen Tech, organized by Lesson Lens Integrated School, Malappuram on 02/12/2023.

Dr. Valanto Alappat delivered an invited lecture on Edge Intelligence: Artificial Intelligence at the Edge, and chaired the session of the paper presentation competition in the international conference CONSIT 2023 on Artificial Intelligence – A Leap to Next Gen Tech, organized by Lesson Lens Integrated School, Malappuram on 02/12/2023.



Dr. Valanto Alappat completed a 12-week course in Introduction to the Internet of Things conducted by NPTEL during July - October 2023.

Ms. Anumol C.S. completed a faculty development program in Big Data Computing conducted by NPTEL-AICTE.

Ms. Anumol C.S. completed an 8-week course in Big Data Computing conducted by NPTEL during August -October 2023.

Students Achievements

Ms. Sandra M.A. of S7 CSE -B securing the second position in the 12-hour offline DESIGNATHON held on 22-28th May 2023, at Christ College of Engineering, Irinjalakuda.



Ms. Aneena Andrews and Ms. Ann Mariya from S3 CSE got 3rd prize in debate competition held at Govt.High School, Cheruthuruthy on 28th November 2023.



Ms. Josepaul Jenson from S4 CSE-B selected as the new Lead of the Google Developer Student Club - Jyothi Engineering College Chapter (GDSC Lead - JEC) for the tenure of 2023 - 2024 by Google.



Edwin, Aswin from S7 CSE, and Arun K. Nair from S5 CSE completed consultancy website BTC work of 10k successfully.

Sandra M.A. from S7 CSE joined for an internship at Basil Gregory Software Labs Private Limited.



VMs. Andrea James and Ms. Aleena Kuruvila from S5 CSEA are (team members) won APJAKTU E-ZONE Basketball 2nd Runner Up.



Sneha C Shaji from S7 CSE joined for an internship at Softmotions Technologies Pvt Ltd, as Business Development Executive for a period of 13/11/2023 to 13/02/2024.



Mr. Praveen S. (S7 CSE), Alwin and Gokul (S5 CSE) Won as 2nd Runner Up 2023-2024, APJAKTU E-Zone Chess (Men) championship.

Mr. Arun K. Nair from S5 CSE got first prize in the coding competition "In the Loop" for Inter college Students as a part of Tharang Tech Fest.



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