



CIVIL NEWS

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**Civil
Engineering
Department**



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, VETIKATTIRI 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.

COLLEGE VISION

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

COLLEGE MISSION

- 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 VISION

To emerge as a Centre of Excellence in Civil Engineering through quality professional education and to create eminent leaders with values committed to the profession and society.

DEPARTMENT MISSION

- To impart state of the art education and to provide industry exposure to students.
- To create civil engineers who successfully adapt and innovate solutions for the built environment.
- To inspire and transform the students to hard core professionals and academicians with ethical values.

PROGRAMME EDUCATIONAL OBJECTIVES

The program educational objectives of B. Tech in Civil Engineering are:

1. Graduates will have concrete knowledge in the application of necessary mathematical tools, scientific theories and modern developments in civil engineering.
2. Graduates will understand the societal needs and will be committed in developing optimal solutions.
3. Graduates will pursue higher education, research or entrepreneurship apart from being employable.
4. Graduates will be competent to face challenges in civil engineering through lifelong learning process and will have high ethical values, honesty and a sense of responsibility.

PROGRAMME OUTCOMES

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 analyse complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

DEPARTMENT ACTIVITIES

The Professional Bodies of the Department have always been keen in facilitating technical sessions for our students.



ISTE (student Chapter) organised a webinar on “**Corridor Analysis**” on March 22nd, Monday (2 pm-3 pm). The Resource person is Dr. Anitha Jacob, Lecturer, Govt. Polytechnic College, Chelakkara..



The Department of Civil Engineering in association with ICI of Jyothi Engineering College conducted a webinar on "**Bacteria concrete: An innovative approach towards sustainable future**" on 08/02/2021-Speaker Ms. T. Soumya, Assistant Professor, Department of Civil Engineering, BMS College of Engineering, Bangalore



ICI conducted a webinar on "The green side of precast concrete" on 20/02/2021 by Ms. Nandita Pal, Assistant Professor, Department of Civil Engineering, BMS College of Engineering, Bangalore

TECHNICAL COMPETITIONS!

STUDENT ACHIEVEMENTS Students our pride!

Publications / Presentations / Participations

The following S4 M. Tech students presented their papers at two-day National Conference & Seminar

Ms. Dona Joy and Ms. Sreelakshmi K.S. presented the paper titled “Effect of Two-Lane Non-Urban Highway Geometry on Workload Profile

of Drivers" in the International Web Conference in Civil Engineering for a Sustainable Planet (ICCESP 2021) organized by Habite Learning Solutions in collaboration with the American Society of Civil Engineers (ASCE), TKM College of Engineering, and Baseliros Mathews II College of Engineering, Kollam, Kerala on 5th and 6th of March 2021.

Sreelakshmi K S presented a paper titled Study of Noise Pollution and Air Pollution Due to Railway and Vehicular Traffic At Level Crossing in international conference on energy and environment (ICEE 2021) during April organised by Jyothi Engineering College



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 teamwork:** Function effectively as an individual, and as a member or multidisciplinary settings.



Our students are PLACED!

BLESSY P SAMUEL
2.FASNA SAVAD
3.RAVEENA V
Placed in tcs

Mr. ALFRIN ANTO K (S8 CE) selected by Amerigo Structural Engineers Pvt. Ltd, Bangalore
Mr. Vishnu N D (S8 CE) selected by Amerigo Structural Engineers Pvt. Ltd, Bangalore
Ms. Sreenandana M M (S8 CE) selected by Sutherland Global Services.
Ms. Vinayak Vinod (S8 CE) selected by Sutherland Global Services.

Congrats to the Winners!

Mr. Arjun P. M., Ms. Shabla K. and Ms. Sneha Thomas of S4 Civil Engineering (2018-22) won the first, second and third positions in the fourth semester results published by APJ Abdul Kalam Technological University scoring SGPA of 9.71, 9.67 and 9.54 respectively.



Ms. Shefeekha A., Ms. Raveena V. and Ms. Blessy P. Samuel and Ms. Femin K.A. of S6 Civil (2017-21) secured the first, second and third positions in the sixth -semester results published by APJ Abdul Kalam Technological University scoring SGPA of 9.74, 9.48 and 9.09 respectively.



Ms. Shefeekha A., Ms. Raveena V. Ms Shini K J of S7 (2017-21) secured the first, second and third positions in the seventh -semester results published by APJ Abdul Kalam Technological University scoring SGPA of 10.00, 9.48 and 9.20 respectivel

Ms. Swathy P. Mohan, Ms. Dona Joy and Ms. Anupama Krishnan of M. Tech S4 Civil won the first, second and third positions in the third semester results published by APJ Abdul Kalam Technological University scoring SGPA of 9.00, 8.25 and 8.13 respectively.



Ms. Athira C., Ms. Mahima Mary Thomas and Ms. Neelu Mammen of M. Tech S2 Civil won the first, second and third position in the first semester results published by APJ Abdul Kalam Technological University scoring SGPA of 9.27, 9.05 and 8.36 respectively.



FACULTY OUR ASSET!

Mr. Cyriac M G delivered a season on “drinking water quality - issues and challenges” on 3 days FDP on “Enhancing civil engineering proficiency 2021”

Jisha Akkara presented the following papers in the International Web Conference in Civil

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.

Engineering for a Sustainable Planet (ICCESP 2021) organized by Habilete Learning Solutions in collaboration with the American Society of Civil Engineers (ASCE), TKM College of Engineering, and Baseliros Mathews II College of Engineering, Kollam, Kerala on 5th and 6th of March 2021.

Archana S and Parthiban P Effect of Two-Lane Non-Urban Highway

Drivers" Potential of Driver Physiological Measures for Assessing Non-Urban Highway Geometry"

Mr. Parthiban P has published a book "Numerical Studies on the



Behaviour of HPFRC Beam Using ANASYS with a ISBN 978-93-5473-364-2

Mr. Parthiban P has received a patent with title as "SMART DEVICE TO DETECT THE RATIO OF CONCRETE MIXTURE" (Patent/App No. 202141020278 A); Issued By, Intellectual Property Rights (India)

Mr. Parthiban P has received a patent with title as SUSTAINING SOLAR DISTILLATION USING ENERGY STORAGE MATERIALS (Patent/App No. 202141021564) Issued By, Intellectual Property Rights (India)

Dr.K.ATHIAPPAN has received a patent with title as TILED SOLAR DISTILLATION SYSTEM (Patent/App No. 202141020964 A) Issued By, Intellectual Property Rights (India)

Soorya M Nair attended a Virtual Skill Development Training (V-

SDT) with NDT Methods of Structural Condition Assessment conducted by Department of Civil Engineering, Adithya institute of technology, Coimbatore in association with institution of engineers and Engineering council of Indian on 28 th April 2021

Soorya M Nair attended an online national level FDP on "Recent Advances in Structural and Geotechnical Engineering" organised by Department of Civil Engineering, College of Engineering and Management Punnapra, Alappuzha from 11th to 13th march 2021

Welcome

Soorya M Nair

GOOD BYE...

