



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.



CIVIL NEWS

Volume : 06

Issue : 02

July - Dec 2020

CIVIL ENGINEERING DEPARTMENT

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.



Civil Department of Jyothi Engineering College Cheruthuruthy and Friends of Bharathapuzha (FoB) signed a Memorandum of Understanding on. 17.10.2020. Friends of Bharathapuzha, is a People's Collective for Strengthening and Protecting Bharathapuzha River headed by Dr. E Sreedharan, popularly known as "Metro Man". Mr. Vinod Nambiar, Secretary, and Dr. Sunny Joseph Kalayathankal, Principal, Jyothi Engineering College, signed the MoU. Campus head Fr Roy Joseph Vadakkan, Academic Director Fr Jose Kannaouza Head of civil department Ms. Vincy Verghese and Senior Professor from civil department Mr M G Cyriac were present. Civil Department and FOB will collaborate and set up a task force to take up a detailed survey of Bharathapuzha river basin wards in Shornur Municipality and Cheruthuruthy Panchayath Area. The objective of the task force is to study the water quality variation in Bharathapuzha during a period of about one year to assess the pollution potential of the river. The study will focus on the origin of waste, types of waste and typical water sources at large. The survey analysis and report will be shared to the Shornur Municipality and Cheruthuruthy Panchayath for the follow up actions

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

DEPARTMENT ACTIVITIES

Ms. Archana and Ms Neeraja P G Coordinated Webinar On “Intelligent Transportation System (ITS) Applications Under Homogeneous And Mixed Traffic Conditions”, by Dr. Anusha S P, on 6 Aug 2020



Ms Archana and Ms Anju M J coordinated a Webinar On "Managing Traffic Trough Calming", by Dr. Anitha Jacob, on 10 Aug 2020



Ms. Carol Varghese and Ms.Jisha Akkara coordinated ISTE, Student Chapter Quiz “CONCEPTO” organized on 17.10.20



Ms. Archana S and Ms Vincy Varghese coordinated a Webinar

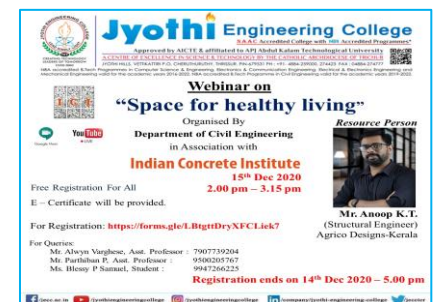
On “Traffic Impact Study – Industrial Practices”, by Mr. Niju Azhakesan on 14 Aug 2020



Mr. Alwyn Varghese Coordinated Webinar on “Basics of structural design “ on 27 Oct 2020 in association with ICI.



Mr. Alwyn Varghese Coordinated Webinar on “ Space for Healthy Living”, by Mr. Anoop K T , on 15 Dec 2020 in association with ICI.



Dr.Agnes Anto and Ms.Carol Varghese coordinated a Webinar on “Waste water Management-Overview” by Dr. Joseph V Thanikal, organised in association with IEI on 8 Dec 2020.



STUDENT ACHIEVEMENTS

Students our pride!

Publications / Presentations / Participations

Mr. Parthiban P., M. Tech second year student presented Publication in Proceeding of National Conference on Emerging Trends in Civil Engineering during 26th – 27th June, 2020, “Pedestrian Flow and Capacity Analysis at Railway Station



Ms.Dona Joy (PG 2018-20) presented a paper on Effect of combined curve on driver's heart rate in National conference on resilient infrastructure 2020 organized by Kerala Highway

research institute and IIT Palakkad

Ms.Mahima Mary Thomas (PG 2019-21) presented a paper on Reclaimed Asphalt Pavement: A Review in National conference on Resilient Infrastructure 2020 organised by Kerala Highway research institute and IIT Palakkad

Mr.Eloi C J, Ms.Clodiya Charly, Ms.Olly Nixon and Mr.Saison Xavier (UG 2016-20), presented a paper on “Carbon Neutral Thrissur” at National conference on resilient infrastructure 2020, organised by Kerala Highway research institute and IIT Palakkad

Ms.Rohini P (PG 2018-20), presented a paper on “Effect of Fuel Price on Activity pattern of Thrissur City” at National conference on resilient infrastructure 2020, organized by Kerala Highway research institute and IIT Palakkad

Ms.Silpa Sekhar G (PG 2018-20), presented a paper on DissipatiQueue on Time and Travel Time Estimation Model for Emergency Vehicles Under Pre-emption Control in National conference on Resilient Infrastructure 2020 organized by Kerala Highway research institute and IIT Palakkad

Ms.Nivya Varghese V(PG 2019-21) presented a paper on Efficiency Analysis of Electronic Toll Collection in a Toll Plaza in

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

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.

PROGRAMME SPECIFIC OUTCOMES

1. Acquire applied knowledge in Environmental Engineering, Geotechnical Engineering Structural Engineering and Transportation Engineering.
2. Utilise theoretical concepts and technical skills in developing appropriate solutions for water quality management, sanitation, pavement design, traffic engineering and transportation

National conference on Resilient Infrastructure 2020 organised by Kerala Highway research institute and IIT Palakkad

Ms.Arul Jose (PG 2019-21) presented a paper on Accessing role of public transport in post Covid scenario - a literature review in 7th Conference On Transportation Systems Engineering And Management organized by KSCSTE-National Transportation Planning and Research Centre & College of Engineering Trivandrum

Co-curricular & Extracurricular activities

Ms. Anjali Suresh, S5CE got selected to Idea Star Singer – The Epic Show telecasted in Asianet Channel.



University Result Toppers

Ms. Dona Thomas, Ms. Henna Maria and Salini of S8 Civil (2016-20) secured the first, second and third positions in the eight -semester. As per the results published by APJ Abdul Kalam Technological University, they scored SGPA of 9.63, 9.53 and 9.32, respectively



Swathy P Mohan (CGPA 9.05), Shilpa Sekhar G (CGPA 8.84), Anupama Krishnan (CGPA 8.79) (2018-2020) emerged as toppers in the fourth semester results published by KTU.



The APJ Abdul Kalam Technological University declared the rank list for M.Tech in Transportation Engineering for 2017-2019 batch. Our students Ms. Arathi A. R. (CGPA 9.37), Ms. Nivea John (CGPA 8.32) and Mr. Midhun T. (CGPA 8.27) secured the 1st, 2nd and 3rd rank, respectively



FACULTY ACHIEVEMENT

Dr. Agnes Anto C, Paper titled "DecoMSW: A methodology to Assess Decomposition of Municipal Solid Waste for initiation of Landfill Mining Activities, accepted for The Journal of Solid Waste Technology and Management

Mr. Alwyn Varghese published a paper titled "Influence of Fiber on Shear Behavior of Concrete Exposed to Elevated Temperature" in the journal of IJE transactions A: basics. (Scopus indexed)

Ms. Jisha Akkara presented a paper on Workload based consistency evaluation of two-lane rural highways in National conference on resilient infrastructure 2020 organized by Kerala Highway research institute and IIT Palakkad on 17-12-2020

Mr. Athiappan K delivered a technical talk on "Design Concept of Flexible Pavement using IITPAVE" on 16-October 2020 organized by SAI RAM Institute of Technology, Chennai.

Ms. Carol Varghese P attended 7 days Faculty development programme Aspects of Modern optimization Techniques in Science and Engineering NIT Arunachal Pradesh/GCT Coimbatore

Ms. Carol Varghese P attended 5 days Faculty development programme Prospects of sustainability in pavement construction in India organized by NIT Jalandhar

Ms. Carol Varghese P attended 5 days Faculty development programme on Aspects of Modern Optimization Techniques in Science and Engineering

Dr. Agnes Anto C attended 7 days Faculty development programme on Recent Research Advances in Geotechnical and Geological Engineering organized by Rajagiri School of Engineering

Ms. Archana S attended 7 days Faculty development programme on Urban Mobility: Challenges and Opportunities organized by Department of Civil Engineering and Sponsored by TEQIP II

Ms. Archana S attended 5 days Faculty development programme on "Sustainable Environmental Geotechnics" Department of Civil Engineering, S.R.K.R. Engineering College, Bhimavaram, Andhra Pradesh

Ms. Jisha akkara attended 14 days Faculty development on "Internet of Things: A Future Outlook in Civil Engineering"- Phase I organized by Department of Civil Engineering, NSS College of Engineering, Palakkad sponsored by All India Council for Technical Education (AICTE).

Ms. Jisha Akkara attended 14 days Faculty development Outcome Based Education and Accreditation JNTUH College of Engineering, Jagtial Mahatma Gandhi Institute of Technology, Hyderabad and Swecha

Ms. Jisha Akkara attended 7 days Faculty development programme on Emerging Trends and Practices in Pavement Geotechnics organized by Department of Civil Engineering, TKM College of Engineering and sponsored by TEQIP-II

Ms. Jisha Akkara attended 7 days Faculty development programme on Urban Mobility: Challenges and Opportunities organized by Department of Civil Engineering, TKM College of Engineering

Ms. Jisha Akkara attended short term training programme on Soft Computing Techniques in Civil Engineering (STTP) organized by Shri Vishnu Engineering College for women

Ms. Jisha Akkara attended 5 days faculty development programme on Prospects of sustainability in pavement construction in India organized by Dr. B R Ambedkar National Institute of Technology, Punjab.

Ms Neeraja P G attended 35 sessions online course on "Advanced concrete technology" organized by Indian concrete institute-Kochi Centre.

Ms Anju M J attended 35 sessions online course on "Advanced concrete technology" organized by Indian concrete institute-Kochi Centre

Mr.Parthiban successfully completed MOOC Course on Professional diploma program in Accounting organized by European Ope University

Congratulations

Ms. Neeraja P G and Ms. Anju MJ got admission for PhD at Christ Deemed to be university Bangalore

WELCOME...

New teaching faculty joined
Mr. Parthiban P , Mr. Athiyappan and Mr. Alwyn Varghese



GOOD BYE!!!





Lead Kindly Light...

We proudly announce....

Jyothi achieved **NBA ACCREDITATION**
for **CIVIL ENGINEERING.**

Valid from
2019-2022

Jyothi
Engineering College