



# Jyothi Engineering College

Approved by AICTE & Affiliated to Kerala Technological University

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

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## CIVIL NEWS

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**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 become a Centre of Excellence in Civil Engineering through quality professional education and to create world class engineers committed to the profession and society..

### DEPARTMENT MISSION

- Impart state of the art education and industry exposure to students, inspire and transform them to hard core professionals with values.

### SHORT TERM TRAINING



The Department of Civil Engineering & Lawrence and Mayo (India) Pvt. Ltd, jointly organized a Three day training program on “Total Station Survey – Theory and Practice” with between September 6 and 8, 2016. Dr. Anitha Jacob and Mr. Joyal Scaria coordinated the program and Ms. Jimsy Sunil and Ms. Reshma K. C. extended Technical Support. The program covered various theoretical aspects of Total Station Survey. Ms. Jisha Akkara gave an overview of the Development of Surveying and Ms. Anitha Jacob introduced the theory behind the Total Station Survey. Dr. George K Varghese of NIT Calicut presented various case studies and shared his practical experience with the participants. Dr. Anjaneyulu M V L R took a session on Advanced Surveying Using GPS.

## DEPARTMENT ACTIVITIES



The S8 civil students attended an invited lecture on Transportation Planning – Past, Present and Future by Prof. Sreela P.K., Assoc. Professor, Department of civil engineering, GEC Calicut on 12-1-2016

Departments of Civil Engineering and Electronics Engineering received the sanction order to do a funded project of Rs. 12.7 Lakh under KSCSTE. The project is titled as “Driver centric safety evaluation of two-lane rural highway”, with Dr. Anitha Jacob as Principal Investigator and Dr. Jose P Therattil, Ms. Jisha Akkara and Mr. Jinesh K .J as Co-Investigators of the project.



An invited talk on Challenges and Opportunities for Civil Engineers was given by Mr. Cyriac Davies, Managing Director, KITCO. The program was jointly organized by CEA and ISTE on 18-1-2016.



An expert talk on ‘Trench weir’ by B Sri Manikandan, Executive Engineer, Kerala State Electricity Board, Kozhikode was conducted by the Department for S6 and S8 Civil Engineering students



The Department organized a workshop in association with Lauri Baker International School of Habitat Studies (LaBISHaS) on 27th February. Prof.Cyriac M G was the coordinator. Fr. Joju Chiriyankandath, Assistant Manager (Finance) inaugurated the function. The Chief Guests were Prof. V. K. Lakshmanan Nair (Zonal Coordinator, Kerala State Nirmithi Kendra) and Dr. P. R. Sreemahadevan Pillai (Dean- LaBISHaS). Prof. V. K. Lakshmanan Nair delivered a talk on “Cost Effective and Environment Friendly Construction” in the forenoon session. The afternoon session was a lecture on “Sustainable Construction” by Dr. P. R. Sreemahadevan Pillai

An expert talk by B A Benny, Assistant Executive Engineer, Kerala Water Authority, Wakkancherry was arranged by the Department. He conducted a lecture on “Use of Excel Software for Preparation of Estimation” for students of S8 Civil.

Ms. Sunu Rajesh Professional Trainer and councillor conducted a half day training on Motivation and Goal Setting for the Seventh Semester students on 24/6/2016.

A talk on ‘A Successful Life -The Result of Positive Thinking’ was given by Fr. Jinto Pereppadan, (Asst. Manager) under the auspices of the Women Development Cell of the college on 28 -10 -2016. The talk was given to the women students of the college. Ms. Neeraja P.G. was the coordinator for the same

World Habitat Day was celebrated under the auspices of Civil Department on 7-10-2016. Ms. Nisni Ashraf coordinated the program.

Right Edge Infrastructures Pvt. Ltd conducted a placement drive for Civil

## PROGRAMME EDUCATIONAL

The objectives of the B.Tech in Civil Engineering curriculum are

Graduates shall have concrete knowledge in the application of necessary mathematical tools, scientific theories and fundamentals of civil engineering

Graduates shall be inspired to pursue higher education, research or entrepreneurship apart from gaining professional practice in civil engineering

Graduates shall be competent to face challenges in civil engineering and adaptive to lifelong learning process.

Graduates shall be transformed to technocrats of high ethical values, honesty and responsibility who can understand the needs of the day and serve the society prolifically.



Ms Neeraja P G and Ms Nisni M ashraf coordinated a 3 day workshop on PRIMAVERA & STAAD.Pro.V8i between 10.1.2017 and 12. 1.2017

The S7 Students went on a one day Industrial Visit to Idukki dam. They also completed a South India Tour.

S7 students went on a one day industrial visit to Kuthiran tunnel and Peechi Water treatment plant on 6th November 2016.



## PROGRAMME OUTCOMES

Ability to apply knowledge of mathematics, science and engineering in the field of Civil Engineering.

Ability to design and conduct experiments, analyze and interpret data and results in Civil Engineering.

Ability to design various civil engineering systems, components, or processes to meet the desired needs within realistic constraints such as health and safety, manufacturability and sustainability with economic, environmental, social, political and ethical considerations.

Ability to work individually as well as in multidisciplinary teams as a member or as a leader to accomplish the common goal.

Ability to identify, analyze, formulate, and solve engineering problems  
Knowledge of professional and ethical responsibility.

Ability to communicate effectively in any area of their field to the industry, fellow beings and society.

Broad knowledge necessary to understand the impact of engineering solutions on individuals, organizations and society.

Ability to engage in life-long learning to update their knowledge to keep pace with changes caused by dynamic nature of engineering field.

Awareness of the contemporary issues that help to integrate advanced and sustainable solutions in the user environment.

Ability to use the techniques, skills, and modern engineering tools, software and equipment to analyze and model complex engineering solutions.

Capability of successfully getting employed or pursuing higher studies in the competitive world through contributions to industry/academy.

## Tharang-16



Types of Grade Separated Intersections - S4 CE



Types of Cross Drainage Works - S6 CE



Working model of Water treatment plant and Hydraulic City

Two project staff were appointed for the KSCSTE funded project on 4th July 2016. Midhun R, Project Fellow, is a Civil B.Tech degree holder and Maheswary, Technical Assistant is a Diploma holder in Electronics.

## STUDENT ACHIEVEMENTS



Mr. Abhishek T S of S6 Civil was a member of the winning team (First prize) of Kerala Startup Mission i3 contest conducted at CUSAT on 18, 19 and 20 of January 2016.

Mr. Manu C Paul and Ms. Amritha V V of S6 Civil Engineering were members of the winning team of ICT Academy Kerala Techathlon conducted at Technopark Trivandrum held on 28-1-2016.



Mr. Anand Krishnan and Mr. Afsal of S4 CE won the Second prize in the Survey competition conducted as part of Tharang 16.

Ms. Feba of S4 CE became the individual female champion in the competitions conducted as part of Sports Day on March 19, 2016.



Ms. Bency Joy of S8 CE was selected for the Prof. A Radhamany endowment award for the best outgoing civil engineering student for the year 2016.

Mr. Jithin T.J., Mr. Joseph Kodankandath, Ms. Maria Rose, Ms. Swetha P and Mr. Relins Lawrence were selected for the best innovative project presentation from the college and presented their project at Chennai in the ICTACT STUDENT INNOVATOR AWARDS 2016 Tamil Nadu contest.



Mr. Sreenath, Ms. Jishma and Mr. Saleel of S8 Civil were placed in Sutherland Global Services

Mr. Saleel Saleem got a valid GATE Score of 344



Mohammed Jasir, Ameera V U and Saleel Saleem jointly published a paper Use of ALCOFINE 1203 to enhance the properties of concrete

Mr. Abhishek TS, Mr. Manu C Paul and Mr. Hebin J Chiriyankandath of S7 won the First prize in the Survey Competition conducted at Royal Engineering College.



Ms. Amrutha V V of S7 was part of the team which won the 1st prize worth Rs. 15K in a three days' workshop on "Startup i3" organised by KSUM in association with Openfuel.org at Al Ameen Engineering College, Shornur on 19-21 July 2016.

Two batches of S3 Civil Engineering won a special mention in the Two day Hackathon competition AGORA 16 conducted by JECC along with Mechanical Engineering Association on 23 and 24 of September.

Mr. Manu C Paul, Mr. Hebin J C and Ms. Maria Rose Vincent secured a fund of Rs. 15,000/- by Malayala Manorama – Yuva mastermind for their innovative project on Low Cost Total station.



Mr. Manu C Paul, Mr. Hebin J Chiriyankandath and Ms. Maria Rose Vincent had presented their project in Malayala Manorama, Yuva Master Mind and obtained a satisfactory expression from the evaluation committee.

### University Result



Ms. Divya Joshi (9.21), Ms. Ameera V. U. (9.07) and Mr. Sanaj R (8.79) scored first, second and third positions in class in the Final semester university results.



Ms. Christy mol Joshi (7.69), Ms. Tania, Ms. Vineetha and Ms. Raeesa U. (7.64) scored first and second positions in the class in the Third semester university results.



Ms. Ambili P (8.91), Ms. Mariya Rose Vincent (8.57) and Ms. Anupaul V (8.32) Scored first second and third positions respectively in the sixth semester university results.

### Placement



Ms. Dizilda Vincent and Ms. Nora Fulgence of S7 CE got provisional offer letters from Sutherland Global Services



Ms. Dincy T S, Mr. Jijo Antony, Ms. Jintu Rose Thomas, Krishna D., Manu C Paul, Maria Rose Vincent, Revathi Gangadharan and Mr. Sarath Sankar were placed in SUTHERLAND GLOBAL SERVICES through campus placement.

### FACULTY ACHIEVEMENTS



Prof. S. Rathish and Prof. Cyriac M.G. prepared a booklet on "Water Quality" and submitted it to the management for approval for publication.

Prof. Rathish S was selected as a Member of the interview board of KRWSA for implementation of World Bank aided Jananidhi project on 22<sup>nd</sup> January 2016

Prof. S Rathish was invited to be the resource person at MDIT Kozhikode on 28<sup>th</sup> January 2016.



Prof. S Rathish delivered a lecture on “Water treatment process and plant operation” for the Kerala Water Authority officials at Trivandrum on 18-7-2016

Prof. S. Rathish was invited as subject expert to the Interview panel for the post of project commissioners at World Bank aided Jalanidhi project at Trivandrum on 15/10/2016

Prof. S Rathish and Prof. Cyriac M.G. attended a State Level workshop for the preparation of a manual on Water Quality monitoring and surveillance organized by Kerala State Rural Water supply and Sanitation agency on 8<sup>th</sup> March 2016 at Trivandrum.

Prof M G Cyriac delivered a lecture on “water quality” at Vellangallur panchayat on 17.09.2016

Ms. Anitha Jacob handled a session on Total Station at GEC Kozhikode on March 15 and gave training on the working of Total Station during the 5 Day STTP on Introduction to Advanced Software in Civil Engineering



Prof. M. G.Cyriac, Prof. S. Rathish, Jisha Akkara, Neeeraja P.G. presented and published a paper titled “Combating Pollution in traditional water sources of Kerala,” at the 3<sup>rd</sup> international Conference on Recent Innovation in Science, Engineering and Management at SVCET, Andrapradesh, 2016, pp 46-54.

Prof. S. Rathish and Ms. Anu Theresa presented and published a paper “Smart water supply system in the seminar on *Water supply for towns and villages-Problems and Solutions*, organized by Environmental Engineering Division, IE(I), jointly with Association of Public Health Engineers Kerala at Kannur, 2016.



Ms. Sinu C G. published a paper titled “Effect of Cylindricity on Buckling of Vented Interstage” in IJSTE, Vol 3, Issue 1, July 2016.

Mr. Sooraj Krishnan attended an online video course on Design and Engineering at Vidya Academy of Science and Technology on 19<sup>th</sup> March 2016.

Ms. Jisha Akkara attended an FDP on Essential Mathematics for Engineers during 28 November to 3<sup>rd</sup> December 2016 at VAST organized by ICT Academy of Kerala and KTU.

Ms. Anitha Jacob coordinated the Annual Tech Fest Tharang 16 along with Prof. Thomas George K of CSE department. Ms. Nisni Ashraf well-coordinated the Tharang 16 Tech Fest of the Civil Department

Prof. M. G. Cyriac and Jisha Akkara, presented and published a paper “Managing water quality in the traditional water sources of Kerala,” in the seminar on *Water supply for towns and villages-Problems and Solutions*, organized by Environmental Engineering Division, IE(I), jointly with Association of Public Health Engineers Kerala at Kannur, 2016.

Ms Anu Theresa attended a short term training programme on environmental forensic investigation of ground water contaminated sites from on 14 to 16 December 2016, organized by GEC, Thrissur

Mr. Joyal Scaria got a valid GATE Score of 456 in 2016 GATE.

Ms. Anju M.J. coordinated World Environment Day celebrations in the college.