



**Jyothi Engineering College**  
 Approved by AICTE & Affiliated to APJ Abdul Kalam Technological University  
 A CENTRE OF EXCELLENCE IN SCIENCE & TECHNOLOGY BY THE CATHOLIC ARCHDIOCESE OF TRICHUR  
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 NBA Accredited B. Tech Programmes in Computer Science & Engineering, Electronics & Communication Engineering, Electrical & Electronics Engineering and Mechanical Engineering valid for Academic Years 2016-2017 to 2018-2019  
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## CIVIL NEWS

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**CIVIL  
ENGINEERING  
DEPARTMENT**

### SOFTWARE TRAINING

We were fortunate to have Mr. Prathyush M, Transportation Engineer working in Dubai to handle a one day software training on 'Synchro'- a software for design of signalized intersections on 26th August 2017.



### 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 engineers and 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 values



### INVITED TALK

An invited talk on "Activity Based Travel Demand Modeling" a third generation planning process, was delivered by Prof. Sreela P. K., Associate Professor in Civil Engineering, Govt. Engineering College, Kozhikkode on 13-10-2017. The talk was arranged by IEI (Civil) Students chapter along with CEA.

### CEA INAUGURATION

The technical association of our department, Civil Engineering Association (CEA), had its annual inaugural session on the World Habitat Day. We fortunate to have Mr. L. Gopakumar, Director & Senior Architect, Architects Group to deliver a technical talk on "Affordable Homes". Our faculty, Ms. Sinu C. G. coordinated the program in association with IEI (Civil) students chapter.



### INAUGURATION OF ICI ACTIVITIES

Indian Concrete Institute (ICI), a professional body commenced its activities with a technical talk on 'Modern trends in construction industry' delivered by Mr. Sarath Vinod, Senior technical officer, Ultra tech cements. Prof. Cyriac M.G. of our department coordinated the event.





## PROGRAMME EDUCATIONAL OBJECTIVES

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

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

## DEPARTMENT ACTIVITIES

An out reach program 'Experience the Engineering' to the engineering aspirants in schools was effectively organized by the teaching and non teaching faculties of our department. The students were given a tour to various labs in our department to help them envision the challenges faced by professional in facilitating the civilian needs.



The department has tied up with the state government in extending out technical expertise and as a part of this PMKVY program on Plumbing proposed by the department has been sanctioned.

Our department has always took pride and welcomed our aluminis with the budding students in the department. Mr. Mohammed Jasir who has successfully completed his MS from Brunel University London was enthusiastic in interacting with his juniors in S3 and S5. In his interaction he could kindle the young minds in pursuing higher studies abroad.



A farewell was arranged to felicitate Dr. K.K. Babu and Ms. Anu Theresa who were bidding good-bye to our department.



The relentless efforts of out department has culminated in the commencement the new PG program – M.Tech in Transportation Engineering with an intake of 18 students.

Fifth semester students merrily completed their industrial tour to Mysore and Koorgue during 12-14, August 2017.

The final year students were accompanied by Mr. Aswin P Vijayan and Ms. Nisni Ashraf fot a seven day industrial visit to Jai Salmer, Jaipur and Agra on 30th September 2017.

## STUDENT ACHIEVEMENTS



Mr. Mahesh of S5 was elected as the fine arts secretary and Mr. Austin Joju of S3 was elected as the Sports secretary in the college union election held on 29-09-2017.

The elections in the department were conducted to appoint the respective class representatives. Mr. Arun K.V and Ms. Danliya Das from S7, Mr. Mahesh and Ms. Anjana CP from S5 and Mr. Austin Joju and Ms. Derly Davis from S3 were selected.



Ms. Christy mol E. B. and Pinky Shaji secured the first and second positions in their class in the fifth semester results published by Calicut University with SGPA of 8.43 and 8 respectively. Ms. Tania Baburaj, Ms. Shemim Haleema

## PROGRAMME OUTCOMES

Students will have:

1. Ability to apply knowledge of mathematics, science and engineering in the field of Civil Engineering.
2. Ability to design and conduct experiments, analyze and interpret data and results in Civil Engineering.
3. 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.
4. Ability to work individually as well as in multidisciplinary teams as a member or as a leader to accomplish the common goal.
5. Ability to identify, analyze, formulate, and solve engineering problems.

and Ms. Sajana Krishnan secured the third position with SGPA of 7.79.



Mr. Anto of S5 Civil participated and bagged fourth position in the startup i3 contest conducted at MES Engineering College, Kuttipuram.



Our students were keen in participating in various inter departmental competitions hosted by our college. Mr. Fredin Joy K. of S3 Civil has bagged first prize in the poster making competition organized by Natura club of the college.

### FACULTY ACHIEVEMENT

Dr. Anitha Jacob, Ms. Jisha Akkara and Mr. Midhun Mohan R had their work accepted in the form of a technical paper entitled, "Development of Consistency Evaluation Criteria for Indian Two-Lane Rural Highways" in the 4th International conference of Transportation Researchers Group of India scheduled to be held at Mumbai on 17 to 20 December 2017.



The paper entitled "Effect of rural highway geometry on driver workload – a step towards safety" has been accepted to International Conference on Civil Engineering Advancements in Sustainable Infrastructure Development and Environment - CEASIDE 2018 scheduled on 18 -20 January 2018. The paper which is an outcome of KSCSTE funded project is authored by Dr. Anitha Jacob, Prof. Jinesh K. J., Prof. Jisha Akkara and Dr. Jose P. Therattil.



It was a triumphant moment when Mr. George Chirammel of our department

was honored by the faculty and students of Thyagarajar Poly technic, Alagappa Nagar by releasing a book namely "Haridhakshina" which contained the details of all the trees planted by him in the campus during his tenure.



Prof. Cyriac M.G. and Ms. Vincy Verghese attended a one day seminar on "Life mission and Green construction" at KILA, Thrissur on 5th December 2017.

Prof. S. Rathish, the HOD was instrumental in training the participants from KWA and professionals from other states and organizations on 3-11-17 and 16-11-17 at KWA training centre Trivandrum. Along with Prof. Cyriac M. G. who trained the participants on 3-11-17.



Ms. Sinu C G and Ms. Nisni Ashraf attended a 5 day Faculty Development Programme on the topic Construction management and building services at Govt. Engineering College, Thrissur from 11 to 15 December 2017.



Our department has welcomed new faculties Ms. Archana S. (M.Tech in Transportation Engineering), Mr. Aswin Vijayan (M.Tech in GIS and Remote sensing), Ms. Vincy Verghese (M.Tech in Transportation Engineering) and instructor Mr. George Chirammel (Instructor, Material Testing Lab) to join the department.



Mr. Sooraj Krishnan and Mr. Joyal Scaria bid farewell from the institution to pursue Ph.D and serve in government sector, respectively. Ms. Anu Therasa also bid good bye to the JECC family.

6. Knowledge of professional and ethical responsibility.
7. Ability to communicate effectively in any area of their field to the industry, fellow beings and society.
8. Broad knowledge necessary to understand the impact of engineering solutions on individuals, organizations and society.
9. Ability to engage in life-long learning to update their knowledge to keep pace with changes caused by dynamic nature of engineering field.
10. Awareness of the contemporary issues that help to integrate advanced and sustainable solutions in the user environment.
11. Ability to use the techniques, skills, and modern engineering tools, software and equipment to analyze and model complex engineering solutions.
12. Capability of successfully getting employed or pursuing higher studies in the competitive world through contributions to industry/academy.

### PROGRAMME SPECIFIC OUTCOMES

1. Students will attain professional competency in the field of civil engineering.
2. The program will enhance their capability and aptitude for research in various fields of civil engineering.
3. Students become motivated for pursuing higher studies in civil engineering.
4. Students will be transformed to eminent and ethical leaders who can contribute to society.