



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

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CIVIL  
ENGINEERING  
DEPARTMENT

## YES WE ARE NBA STAMPED!!

A panel of three members from the National Board of Accreditation (NBA) visited Civil Engineering Department of Jyothi Engineering College on 6<sup>th</sup>, 7<sup>th</sup> and 8<sup>th</sup> of September 2019. They meticulously scrutinized the college and departmental activities and interacted with the students, parents and alumni. Our Department came out with flying colours securing an enviable score of 676. With our achievement JEC leaped to the position of the top five engineering colleges in the state and became eligible to apply for Autonomy!

## CEA BACK IN ACTION!!

The Civil Engineering Association for the academic year 2019-2020 was inaugurated by Er. Pauly Peter, SE, KWA Thrissur on 03/09/2019 (Tuesday) at 10:00 am in the Decennial Hall of our college. The chief guest also delivered a very informative technical talk on the topic 'Modified Intakes in Deep Reservoirs for Water Quality Management' and interacted with the students of the Department.

A discussion on 'Rivers and Sustainability' was organised in association with IE(I) on 4<sup>th</sup> July 2018. The participants were fortunate to have Ms. Jordan P. Woodward, Fullbright Nehru Research Scholar, University of Oklahoma, USA as the speaker for the session.



## CELEBRATING WORLD HABITAT DAY!!

The World Habitat Day celebrations in the college were organized by the Civil Engineering Association and ISTE students' chapter on 09/10/2019. A talk on '**Frontier Technologies as an Innovative Tool to Transform Waste to Wealth**' was conducted in connection with this at the Decennial hall of our college. The chief guest was Prof. Dr. V. K Sasi kumar, Retd. Principal, GEC Calicut. In his talk, Dr. V. K. Sasikumar emphasised on the need of converting waste to wealth by citing various examples of recycling.

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

## DEPARTMENT ACTIVITIES

### SKILL DEVELOPMENT FOR STUDENTS

Dr. Anitha Jacob, Lecturer in Civil Engg, Govt. Polytechnic College Chelakkara was invited to handle a technical session on Corridor Analysis to the final year B.Tech and M.Tech students in the civil engineering department. The talk was organized by CEA in association with ISTE students' chapter on 04/11/2019. The lecture included the corridor definition terminology, demand adjustment algorithm and the calculation of performance measures. Furthermore, an exercise to investigate the applicability of the analysis method to a sample transport network was done at the end of the session.



The Department of Civil Engineering along with Institution of Engineers organized a one day workshop on Latex and Technical Writing on 12/11/2019. The program was attended by M-Tech and final year B-Tech students of the department. The expert for the talk was Dr. Sreekumar M., Assistant Professor, National Institute of Technology, Surathkal. The basics of LATEX, like its origin benefits, the structure, the tools, packages, referencing, etc, were explained in the forenoon session. The students got the opportunity to have a hands

on session on what they had studied and to answer queries on the same.



### CWRE @ JEC continues its LEGACY!

The Centre for Water Research and Education was inspected by Centre for Pollution Control Board, Govt. of Kerala on 21-11-2019 for the renewal of its affiliation.

### NURTURING THE PEDAGOGUES!



A KTU sponsored faculty development programme (FDP) on 'Repair and Rehabilitation of Structures' was organized by the Department of Civil Engineering from 2<sup>nd</sup> to 6<sup>th</sup> of December 2019 in our Institution. The FDP had 24 external participants from various reputed engineering colleges in Kerala and 6 internal participants. Moreover, there were 10 resource personnel, 9 external and one internal, representing the academia and industry. The technical sessions dealt largely with causes of distress in foundations, super structures and offshore structures and the techniques and

practices adopted for repair and rehabilitation of the same.

## STUDENT ACHIEVEMENTS

### Students our pride!

#### Publications / Presentations / Participations

Ms. Ammu B. Crusho, M. Tech second year student presented a paper titled 'Medical Plastic Waste Disposal by using in Bituminous Road Construction' at the International Conference on Smart Applications for Environmental Quality Assessment and Promoting Health Care Systems Using Internet of Things held at KS Rangasamy College of Engineering Tiruchengode, Tamil Nadu on 28<sup>th</sup> and 29<sup>th</sup> August 2019.

Mr. Parthiban P., M. Tech second year student presented a poster titled 'Network Expansion in Kerala State RTC' at the International Conference on Smart Applications for Environmental Quality Assessment and Promoting Health Care Systems Using Internet of Things, at K.S. Rangasamy College of Engineering, Tiruchengode, Tamil Nadu on 28<sup>th</sup> and 29<sup>th</sup> August 2019.



#### Placements

The following students were recruited as part of the college campus placements:

Mr. Rahul S. Kumar of S7 has been placed in the prestigious company Tata Consultancy Services Pvt. Ltd  
Ms. Anitta Rose of S7 has been placed in Mitsogo.

Ms. Anitta Rose, Ms. Nithya K. Mathew and Ms. Boniya Joseph have been placed in CSS Corp Pvt. Ltd.



#### Co-curricular & Extracurricular activities

Ms. Sreya Murali, Ms. Salini M .S. and Ms. Aajini Giri participated in the interactive session on Cost Effective Technology in Building Construction and LIFE Projects organized by IE(I), Trichur Local Chapter held on 13-07-2019 at Hotel Dass Continental Trichur.

Mr. Christo Shaju and Mr. Arun N. of S5 (2017-2021) participated in the APJ Abdul Kalam Technological University Cricket Tournament held at Ernad Knowledge City, Malapurram on 26-09-2019.

Ms. Femin K.A., Ms. Sneha C., Ms. Dhanasree K.S., Ms. Jisna Rajan, Ms. Anjali K.R., Ms. Febi Joseph, Ms. Aleena Sajjan and Ms. Mariya Jose of S5 attended a two day workshop on Q-GIS at SCMS College of Engineering and Technology on 26th and 27th September 2019.

Ms. Athira Dhanesan, Ms. Mariya Rose Vincent, Mr. Fredin Joy K. and Mr. Delvin Davis C. of S7 participated in technical events organized as part of ARKON'19 Tech. Fest at IES College of Engineering on 10-10-2019.

Ms. Geethu Jose Thazhatha of S3 successfully completed training in BIM Workshop conducted by UIT Group International on 13-10-2019

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 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 planning.

Mr. Arjun T. of S3 (2018-2022) attended a lecture on Pattern Recognition, Machine Intelligence to Data Science held as a part of Tathva'19, conducted by NIT Calicut from 18-10-2019 to 20-10-2019.

Ms. Fasma Savad and Ms. Anjana Ramesh of S5 attended a workshop on 'Design of Vertical Cities' on 18-10-2019 conducted as part of the Tech Fest Tathva'19 at NIT Calicut.

Mr. Jerome Joy, Mr. Rahul S. Kumar, Mr. Muhammed Ashik V., Mr. Ijaz Ahmmmed K. and Mr. Harris Paul of S7 attended a workshop on 'Indian Garbage' conducted as part of the tech fest Tathva'19 at NIT, Calicut on 18-10-2019.

Ms. Jusaina P., Ms. Nithya P., Ms. Anitta Rose, Ms. Shyma M. and Ms. Nourin M. of S7 participated in various technical events conducted as part of the Tech Fest Thathva'19 at NIT Calicut on 18-10-2019.

Our students participated in various events held as a part of the college sports day on 18-10-2019 and won prizes.

Mr. Cyril Xavier and Mr. Aadhil Mohammad C. P., of S3 secured 1<sup>st</sup> and 3<sup>rd</sup> prize, respectively in triple jump (Boys).

Mr. Antony James, Mr. Cyril Xavier, Mr. Amal Antony and Mr. Noel Antony secured 3<sup>rd</sup> prize in 4 x 100 m relay (Boys).

Ms. Yaci Joshy of S5 secured 1<sup>st</sup> prize in 100 m race and 2<sup>nd</sup> in shotput (Girls).

Ms. Aiswarya Jayaraj and Ms. Ayswarya P., Mr. Arjun P. M. and Mr. Rahul M. of S3 (2018-2022) attended a seminar on the topic Women Pioneers as a part of

INTERFACE'19 in association with Tathva'19, held at NIT Calicut from 18-10-2019 to 20-10-2019.

Mr. Ajmal T. A. of S5 and Mr. Vivek P.M. of S3 were part of the college football team that took part in the E-zone Football Quarter Finals at Vidya Academy of Science and Technology, Kecheri on 14-11-2019.

Mr. Sreerag R., Ms. Smija S. and Ms. Gopika M. attended a one day workshop on IoT on 19-11-2019 at NCITE, Pamapadi.

Ms. Anupama K., Ms. Akshaya T.P., Ms. Swathy Mohan and Ms. Rohini P. participated in the '35<sup>th</sup> National Convention of Architectural Engineers' organized by IE(I), Trichur Local Chapter on 7<sup>th</sup> and 8<sup>th</sup> December 2019 at Dass Continental Thrissur.

Mr Anto Raffy of S5 was part of the KTU team at the All India Inter-University Fencing (Men) Championship 2019-20 which was held at the University of Jammu between 30-12-2019 to 01-12-2020.



Mr. Devaraj V. of S5 and Ms. Clodiya Charly A. of S7 were part of the team that gave a performance dance as part of the Choreo Nite organized in association with Boun Natale at Thrissur on 26-12-2019.

**University Result Toppers**

The University of Calicut declared the rank list for 2014-2018 batch. Our students Ms. Christymol E. B. , Ms. Tania Baburaj, Ms. Vineetha N. secured the 8<sup>th</sup>, 39<sup>th</sup> and 44<sup>th</sup> ranks, respectively.



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 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> rank, respectively.



Ms. Shabla K. , Ms. Anjali Suresh and Ms. Sneha Thomas of S3 Civil (2017-2021) secured the first, second and third positions in their class in the second-semester results published by APJ Abdul Kalam Technological University scoring SGPA of 9.67, 9.43, and 9.35, respectively.



Ms. Shefeekha A., Ms. Raveena V. and Ms. Blessy P. Samuel of S5 Civil (2017-21) secured the first, second and third positions in their class in the fourth-semester results published by APJ Abdul Kalam Technological University scoring

SGPA of 10, 9.74 and 9.35, respectively.



Ms.Dona Thomas, Ms.Sreya Murali and Ms.Henna Maria of S7 Civil (2016-20) secured the first, second and third positions in the sixth-semester. As per the results published by APJ Abdul Kalam Technological University, they scored SGPA of 9.28, 8.98 and 8.96, respectively.



**FACULTY ACHIEVEMENT**

Dr. Nidhi M. was an external member of the first Doctoral Committee Meeting in the Department Of Civil Engineering, Govt. Engineering College, Thrissur on 22-08-2019.



Prof. S. Rathish took a technical session on the theme ‘Sustainable Access to Safe Water in two Grama Panchayats of Palakkad district, supported by Water Aid India on 18-09-2019 at Peoples’ Service Society Head Office, Palakkad.



Prof. S. Rathish, Prof. M. G Cyriac, Ms. Anju M. J. and Ms. Neeraja P. G. delivered a technical talk on the topics ‘Conservation of Traditional Water Sources of Kerala’ and ‘Water Quality Control, Awareness and Beyond’ as a part of a two day all India seminar on Kerala’s Water Woes - Challenges & Mitigation organized by IE (I) Kerala State Centre and NABARD on 19-09-2019 and 20-09-2019, respectively at Visvesvaraya Bhavan, Trivandrum.



Dr. Agnes Anto C. delivered a technical talk on ‘Municipal Solid Waste decomposition in Bioreactor Landfills’ to the M. Tech students of Environmental Engineering, National Institute of Technology, Trichy on 23-10-2019.



Prof. M. G. Cyriac delivered a technical talk on ‘Water Quality Management’ on 02-11-2019 for Associates of CMI at Devamatha School, Thrissur.



Prof. M. G. Cyriac delivered a technical talk for the final year students of Govt. Polytechnic College, Chelakkara on 'Social Relevance of Project' on the 29<sup>th</sup> of November 2019.

Ms. Vincy Verghese attended an AICTE sponsored STTP at Indian Institute of Technology Madras on 'Modelling and Control of Traffic under Mixed Conditions' from 02/12/2019 to 07/12/2019.



Ms. Carol Varghese, Mr. Jestine J. Thanickal, Ms. Megha G., Ms. Rakendu P. and Mr. Vismay Nair attended a KTU sponsored FDP on 'Repair and Rehabilitation of Structures' from 02/12/2019 to 06/12/2019 at Jyothi Engineering College Thrissur.



Prof. S. Rathish delivered a technical talk on 'Repair and Rehabilitation of Water Retaining Structures' on 03-12-2019 as a part of the KTU sponsored FDP on 'Repair and Rehabilitation of Structures'.



Ms. Jisha Akkara, delivered a technical talk on 06/12/2019 on 'Surveying - Past Present and Future' to the students of the Department of Civil Engineering in Govt. Polytechnic College, Chelakkara.



Ms. Megha G. and Ms. Reshma K.C. handled a technical session on 'Digital Land Surveying using Total Station' on 07-12-2019 and 06-12-2019, respectively for the students of Civil Engineering Department of Govt. Polytechnic College Chelakkara.



Ms. Megha G. attended a FDP on 'Young Faculty Induction Program' from 17<sup>th</sup> to 19<sup>th</sup> December 2019 at M. Dasan Institute of Technology, Calicut.

Ms. Jisha Akkara completed the course work from Government Engineering College, Thrissur which is a mandatory part of her Ph.D. program.



**WELCOME...**

Ms. Carol Varghese specialized in Traffic and Transportation Planning with profuse experience in academia and industry joined the Department as Assistant Professor on 09-10-2019.



**GOOD BYE!!!**

Dr. Sreekumar M. was selected for the post of Assistant Professor in the Department of Civil Engineering at National Institute of Technology Surathkal and he bid farewell to the Civil Engineering Department on 25-09-2019.

