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INSTITUTE VISION

To be an institution offering quality technical education and promoting research with strong ethical values for public good.

INSTITUTE MISSION

To mould the young men and women into technologically up to date, socially conscious and morally sound individuals by providing an inspiring environment of learning for the welfare of the society.

DEPARTMENT VISION

To be a globally recognized Centre for civil engineering studies to mould competent, research oriented and socially responsible professionals.

DEPARTMENT MISSION

To provide quality technical education in civil engineering for a successful career.

To equip the students with advanced skills and knowledge to take up challenges in all areas of civil engineering.

To create professionals with strong ethical values to provide service for the public and society.

From Desk of the Head of the Department

This department newsletter is one of the ways of disseminating information about life in our department. I am happy to communicate with you through this newsletter, the wonderful moments in the previous year. The current curriculum by KTU has enabled the budding engineers to come up to the expectations of the rapidly changing world. As you read through the pages, you will realise that 2017-18 was a successful year for the department. I would like to thank all my colleagues for their tireless efforts to help the department progress at a very steady pace

Prof. JOISY M B

Head of the Department



PROGRAM EDUCATIONAL OBJECTIVES (PEOS)

- PEO 1:** Graduates will be able to establish engineering abilities, design capabilities and life-long learning for a successful civil engineering career.
- PEO 2:** Graduates will be able to establish the knowledge and skills necessary for identifying and assessing design alternative to deal effectively with the social, economic, environmental and public safety problems.
- PEO 3:** Graduates will be able to obtain professional licensure and develop entrepreneurship skills to work in multi-disciplinary environment.

PROGRAM SPECIFIC OUTCOMES (PSOs)

- Global Competence-** Apply technical and managerial skills necessary to enter career in planning, design, construction, operation or maintenance of the global infrastructure.
- Research and development-** Update about the latest research and development in construction technology advances in construction materials and analysis or design procedures.
- Disaster Management-** Acquires theoretical background about post disaster conditions such as rescue operations, damage assessment and retrofitting of structures.

NEW FACULTY MEMBERS

- ❖ Joisy M.B.
- ❖ Jeena Sulaikha
- ❖ Sherine Stanly
- ❖ Sruthy Johnson
- ❖ Tanuja Christopher
- ❖ Elsa Sony
- ❖ Gayathri S.
- ❖ Anand Dev B. G.
- ❖ Jeeva Vijayan
- ❖ Jiji Sasikumar

STUDENT & FACULTY ACHIEVEMENTS

- Dr. Bharati Raj J. and Ms. Renju C. M. coordinated Faculty Development Programme on “Analysis of Indeterminate Structures” from 4th to 7th July 2017 at Marian Engineering College.
- Prof. K. P. Narayanan was resource person for Faculty Development Programme on “Analysis of Indeterminate Structures” from 4th to 7th July 2017 at Marian Engineering College.
- Dr. Bharati Raj J. and Ms. Renju C. M. coordinated Faculty Development Programme on “Design of Reinforced Concrete Structures” from 18th to 22nd December 2017 at Marian Engineering College.
- Prof. K. P. Narayanan was resource person for Faculty Development Programme on “Design of Reinforced Concrete Structures” from 18th to 22nd December 2017 at Marian Engineering College.
- Ms. Rani V., Associate Professor (CE) got elected as the joint secretary of IGS Thiruvananthapuram Chapter.
- Ms. Rani V., Associate Professor (CE) chaired a technical session on the Third International conference on Emerging Trends in Civil Engineering and Architecture, ETCEA 2018 on 13th March 2018 at Trinity College of Engineering, TVM.
- Prof. Joisy M. B. attended the state level inauguration of Aspirations 2018- A Kerala police anti-drug campaign to create “Drug free educational institutions” in the state on 27th February 2018 at Jimmy George Indoor Stadium, Vellayambalam, Thiruvananthapuram. Inauguration was done by Sri. Pinarayi Vijayan, Honorable Chief Minister of Kerala.



- Ms. AswathySasikumar, Assistant Professor (CE) chaired a technical session of National Conference on Innovations in Civil Engineering (ICE-2018) organized by Department of Civil Engineering, Marian Engineering College and IGS Thiruvananthapuram Chapter on 16th and 17th of March 2018.
- Ms. Twinkle Vinu Mohandas, Assistant Professor (CE) chaired a technical session of National Conference on Innovations in Civil Engineering (ICE-2018) organized by Department of Civil Engineering, Marian Engineering College and IGS Thiruvananthapuram Chapter on 16th and 17th of March 2018.
- Ms. Tara Leander, Assistant Professor (CE) chaired a technical session of National Conference on Innovations in Civil Engineering (ICE-2018) organized by Department of Civil Engineering, Marian Engineering College and IGS Thiruvananthapuram Chapter on 16th and 17th of March 2018.
- Ms. Renju C. M., Assistant Professor, Department of Civil Engineering registered for Ph.D. program in APJ Abdul Kalam Technological University, Kerala under the guidance of Dr. Mini Soman, Professor, College of Engineering, Trivandrum.
- Ms. Renju C. M., Assistant Professor, Department of Civil Engineering chaired a technical session of National Conference on Innovations in Civil Engineering (ICE-2018) organized by Department of Civil Engineering, Marian Engineering College and IGS Thiruvananthapuram Chapter on 16th and 17th of March 2018.
- Dr. Bharati Raj J., Assistant Professor (Senior Scale), chaired a technical session of National Conference on Innovations in Civil Engineering (ICE-2018) organized by Department of Civil Engineering, Marian Engineering College and IGS Thiruvananthapuram Chapter on 16th and 17th of March 2018.
- Dr. Bharati Raj J. Assistant Professor (Senior Scale) mentored the design project of sixth semester Civil Engineering students Namitha B., Nayana B., Parvathy S. Nair and MekhanaGopal and presented their innovation on “Bamboo Coir Partition Walls” at KSCSTE TEKON- 2018 held from 23rd to 25th February 2018 at Sahrdaya College of Engineering and Technology, Kodakara, Thrissur.
- Dr. Bharati Raj J. Assistant Professor (Senior Scale) was resource person for Faculty Development Programme on “Analysis of Indeterminate Structures” from 4th to 7th July 2017 at Marian Engineering College.
- Dr. Bharati Raj J. Assistant Professor (Senior Scale) was enabled as Research Supervisor for KTU from 17th August 2017.
- The design project of fifth semester Civil Engineering students Namitha B., Nayana B., Parvathy S. Nair and MekhanaGopal on “Bamboo Coir Partition Walls” guided by Dr. Bharati Raj J. received a financial assistance of Rs. 10,000/- under INNOVATE Scheme of KSCSTE-2018.
- Technical paper on “Use of STP sludge in bricks” presented by Dr. Bharati Raj J. along with eighth semester civil engineering students RadhuRadhakrishnan, Sruthi S., Surya G. S., Swathy S. and Vidhya K. S. secured second prize at the paper presentation contest conducted as part of CARYATID Tech fest at LBS Institute for Women, TVM.
- Technical paper on “Use of sludge in bricks presented by Dr. Bharati Raj J. along with eighth semester civil engineering students RadhuRadhakrishnan, Sruthi S., Surya G. S., Swathy S. and Vidhya K. S. secured best paper award at National Conference on Innovations in Civil Engineering (ICE-2018) organized by Department of Civil Engineering, Marian Engineering College and IGS Thiruvananthapuram Chapter on 16th and 17th of March 2018.
- Dr. Bharati Raj J. Assistant Professor (Senior Scale) participated in the Rural Innovator’s Meet 2018 jointly organized by KSCSTE and M. S. Swaminathan Research Foundation (MSSRF) at Community Agrobiodiversity Centre (CABC), MSSRF, Wayanad during 14th to 16th May 2018.



- Mr. Kannan K., Assistant Professor (CE) attended and presented a paper at Fifth International Conference on Emerging Trends in Engineering Science and Technology (ICETEST) - CEASIDE – 2018 at Government Engineering College, Thrissur from 18th to 20th January 2018.
- Ms. AshaDavood Z. and Ms. Deepthy B. L. co-ordinated one day workshop on GEOMATICS in association with Indian Society For Remote Sensing, Thiruvananthapuram Chapter and Indian Society for Geomatics, Thiruvananthapuram Chapter on 17th July 2017.
- Mr. Kannan K. attended five day short term course on “Technical Writing for Academicians and Researchers” organized by CET Centre for Interdisciplinary Research at College of Engineering, Trivandrum from 24th to 28th July 2017.
- Mr. Kannan K. attended 5 day Faculty Development Programme on “Guidance and Counseling” organized by Indian Society for Technical Education (ISTE) Staff Chapter, St. Joseph’s College of Engineering Tech. Palai in association with ISTE, Kerala Section from 4th to 8th December 2017.
- Sona N. of S8C2 has won the Regional level of “Engineeria”, The Global Engineering Quiz competition, conducted by CADD centre and received a cash prize of Rs. 5000/-.
- Aravind C. of S8 C1 has won gold medal in Kerala University power lifting and weight lifting competition in the year 2017 – 2018.
- Carren Elsa Mathew of S8 C1 has won silver medal in Kerala University weight lifting competition and bronze medal in power lifting competition in the year 2017- 2018.
- Aadya Anand G. S. and FouziaSorab of S8 C1 represented Kerala in the National Level Squash championship held at Mumbai in the year 2017 -18.
- Eighth semester Civil engineering students constructed a bench around a tree adopting an innovative and cost effective construction technique. It was inaugurated by Prof. Joisy M. B., Head of the Department of Civil Engineering on 4th January 2018.
- AryaMuraleedharan M. T., KavyaSudhakar, Anjana S. A., Flora Bosco and Gouri P. of S8C1 presented their final year project on “Fibre reinforced roof tiles using bamboo and coir fibre” guided by Prof. K. P. Narayanan at the KSCSTE Rural Innovator’s Meet 2018 from 14th to 16th May 2018 at Kalpetta, Wayanad.
- AjmalShajahan of S6C1 won first prize for online photography contest in connection with DHWANI, organized by College of Engineering, Trivandrum.
- Nabeel N. S. of S4 C2 has participated in the Quiz competition held at the National level technical fest, PANTHEON organized by ICI CET Students chapter in association with ICI Trivandrum chapter on 27th and 28th October 2017 at College of Engineering, Trivandrum.
- Nabeel N. S. of S4 C2 has participated in The LOGIC OF ENGLISH WORDS-an introductory English Etymology- based Vocabulary Workshop- organized by Logophilia Education Pvt. Ltd. at National Institute of Technology, Calicut.
- Forty eight students from S4 and S2 M. Tech. Geotechnical Engineering participated in the second Biennial Commemorative lecture in memory of Prof. T. S. RamanathaIyer on 17th February 2018 organized by Indian Geotechnical Society, Thiruvananthapuram Chapter and Department of Civil Engineering, College of Engineering, Trivandrum.
- Vrindhalal, Manjunathan Potty S., Vaishak S., G. Aiswarya, FathimaSulfikar, AjmiSulaiman, Abhirami A. L. and Krishna Sreedhar attended the state level inauguration of Aspirations 2018- A Kerala police anti-drug campaign to create “Drug free educational institutions” in the state on 27th February 2018 at Jimmy George Indoor Stadium, Vellayambalam, Thiruvananthapuram. Inauguration was done by Sri. PinarayiVijayan, Honourable Chief Minister of Kerala.





- Sixth semester civil engineering students Aswin Anil, Asif Mohammed, AjmalShajahan, Azhar Bin Ansari, Akhil S. Lal, Tom Boban, Benson Bennedy, Thribin S., Elvin Ernest, AkhilYesudas, SibinBabu, Jithin John, SubinPanicker, SachinJaipal, Riyadh Aziz, Arun Raj and GauravVinod bagged second prize in the dance competition titled “Yagnadhruva” at LBS Institute of Technology for Women, TVM on 9th March 2018.
- Sixth semester civil engineering students Aswin Anil, Asif Mohammed, AjmalShajahan, Azhar Bin Ansari, Akhil S. Lal, Benson Bennedy, Thribin S., Elvin Ernest, AkhilYesudas, SibinBabu, Jithin John, SubinPanicker, SachinJaipal, Riyadh Aziz, Arun Raj, Mahadevan U. and GauravVinod bagged second prize in the dance competition conducted in connection with Cult A Way- The Techno – Cultural Fest conducted at SCT College of Engineering, TVM on 7th March 2018.
- Sixth semester civil engineering students Aswin Anil, Asif Mohammed, AjmalShajahan, Azhar Bin Ansari, Akhil S. Lal, Benson Bennedy, Thribin S., Elvin Ernest, AkhilYesudas, SibinBabu, Jithin John, SubinPanicker, SachinJaipal, Riyadh Aziz, Arun Raj, Tom Boban and GauravVinod bagged second prize and received a cash award of Rs. 8000/- in the dance competition conducted in connection with the annual inter collegiate techno cultural fest “Equinox - 2018” at Lourdes Matha College of Science and Technology, Kuttichal, Thiruvananthapuram on 17th March 2018.
- Sixth semester civil engineering students Aswin Anil, Abraham Koshy, Asif Mohammed, AjmalShajahan, Azhar Bin Ansari, Akhil S. Lal, Benson Bennedy, Thribin S., Elvin Ernest, AkhilYesudas, SibinBabu, Jithin John, SubinPanicker, SachinJaipal, Riyadh Aziz, Arun Raj, Tom Boban and GauravVinod bagged first prize in the dance competition held in connection with the annual techno cultural fest YASYA at St. Thomas Institute of Science and Technology, TVM on 12th April 2018.
- AiswaryaShaji of second semester M. Tech Geotechnical Engineering secured first rank in the first semester M. Tech degree examinations 2017-18 under Kerala Technological University Trivandrum cluster with a GPA of 9.73.
- Alida Mathew and AswathySasikumar published a paper titled “Effect of depth of reinforcement layer in the bearing capacity of soft soil” in the International Journal of Emerging Technology and Advanced Engineering, 7(11), 426-430, 2017.
- Alida Mathew and AswathySasikumar published a paper titled “Performance of soft soil reinforced with bamboo and geonet” in the International Research Journal of Engineering and Technology, 4(11), 646-649, 2017.
- Akhila R. Dev and Deepthy B. L. published a paper titled “ Effect of nylon knitted coir geotextile on shear strength and load bearing capacity of sand” in the International Research Journal for Engineering and Technology, volume 5, issue 4, April 2018.



- Amritha V. G. and Soorya S. R. published a paper titled “Study on strength behavior of jute reinforced CH soil” in the International Research journal of Engineering and Technology, 7(10), 2017.
- Anju R. S. and Soorya S. R. published a paper titled “Volume change behavior of expansive clay liner stabilized with coir pith” in IJETAE-2017.
- Jasmine B. S. and Rani V. published a paper titled “ Effect of fertilizer urea on geotechnical properties of low plastic clay” in International Journal of Emerging Technology and Advanced Engineering, ISSN 2250 – 2459, 7(11), 84-87, 2017.
- JubinaManzoor and Tara Leander published a paper titled “Effect of bamboo fibre on marine clay” in IRJET, 4(11), pp. 2073-2075, 2017.
- Karthika Prasad and AswathySasikumar published a paper titled “Settlement characteristics of Kuttanadu soil in subgrade” in Iconic Research and Journals, 1(9), IRE 1700001, 2017.
- Nisha S. L. and Riya Roy published a paper titled “Design of amended landfill liner using nano silica” in International Research Journal of Engineering and Technology, 5(1), 1438-1441, 2017.
- Rakesh K. R. and Rani V. published a paper titled “Effects of used motor oil contamination on sand” in IRJET, 4(11), 2017.
- Rintu Molly John and Rani V. published a paper on “Effect of iron on some geotechnical properties of clays” in International Research Journal of Engineering and Technology, 4(12), 691-693, 2017.
- Rintu Molly John and Rani V. published a paper titled “Effect of iron on the pH and UCC strength of soils” in International Journal of Emerging Technology and Advanced Engineering, 7(10), 441- 444, 2017.
- Sheeba B. S. and Aswathy Sasikumar published a paper titled “Utilization of rice husk ash as a soil stabilizer” in International Research Journal of Engineering and Technology”, 4(11), 1-3, 2017.
- SruthyBabulan and Soorya S. R. published a paper titled “Stabilization of clayey soil using banana fiber” in IJETAE, October 2017.
- Shruthi B. Dharan and Rani V. published a paper titled “Study on the effect of pH on clays” in IRJET, 4(11), 2017.
- Thara R. Das and Twinkle Vinu Mohandas published a paper titled “Strength characteristics of diesel oil contaminated marine clay” in International Research Journal of Engineering and Technology, 2017.
- Thara R. Das and Twinkle Vinu Mohandas published a paper titled “Strength characteristics of diesel oil contaminated marine clay using phosphogypsum” in Iconic Research and Engineering Journals, 2018.
- Thasneem S. and Kannan K. published a paper titled “Effect of bentonite on viscosity of cement grout” in International Journal of Emerging Technology and Advanced Engineering, 7(10), pp.451-454, 2017.

INDUSTRIAL VISITS

- Ms. Rani V., Ms. AshaDavood Z., Mr. Balu K. R. and 50 students of fifth semester B. Tech. Civil Engineering (C1) visited Coorg, Dandela and sewage treatment plant at Bangalore as part of five days industrial visit from 7th to 11th September 2017.
- Ms. Sanobiya B. S., Ms. Deepthi Dennison and 48 students of fifth semester B. Tech. Civil Engineering (C2) visited Wayanad, Coorg, Chickmangalore and sewage treatment plant at Bangalore as part of five days industrial visit from 6th to 10th September 2017.





- Ms. Deepthy B. L., Ms. Deepthi Dennison and 42 students of seventh semester B. Tech Civil Engineering (C1) visited Kodaikkanal as part of two days industrial visit from 29th to 30th September 2017.
- Ms. Nihila A. and 52 students of seventh semester B. Tech Civil Engineering (C2) visited Kodaikkanal as part of two days industrial visit from 29th to 30th September 2017.
- Faculty of Civil Engineering Department and Prof. Tomy Michael, Director, Marian Engineering College visited the site of proposed Harbour at Vizhinjam on 21st October 2017.

IGS STUDENT CHAPTER NEWS:

- Harshith N. got elected as the president of IGS student chapter, Marian Engineering College.
- GauravVinod got elected as the Vice-President of IGS student chapter, Marian Engineering College.
- Ashima R. Suresh got elected as the Secretary of IGS student chapter, Marian Engineering College.
- Subhana Shanavas, Sibin Babu and Hemna Cruz got elected as the Joint Secretaries of IGS student chapter, Marian Engineering College.
- AnciyaFazal R. got elected as the treasurer of IGS student chapter, Marian Engineering College.



- Rintu Molly John, Rakesh, Anupama B. Senan, MidhunSanthosh, Athira M. Haran, Sherin M. S., Bharatha S. Vipin and Revathy Krishna A. S. got elected as the executive committee members of IGS student chapter, Marian Engineering College.
- Harshith N. and AnujaVijayan of M2 Geotechnical Engineering bagged first prize with an ever rolling trophy and a cash award of Rs. 5000 in the quiz competition conducted by IGS CET student Chapter at College of Engineering, Trivandrum.



INDUSTRY INSTITUTE INTERACTION

Civil Engineering Department signed an MOU with Centre for Environment and Development (CED), Vattiyurkkavu, Thiruvananthapuram on 30th January 2018. This agreement was signed between Very Rev. Msgr. Wilfred E., Manager, MEC on behalf of Marian Engineering College and Dr. BabuAmbat, Executive Director on behalf of CED. The objectives of this memorandum of understanding are:-

- To strengthen the industry-institute association to provide high quality job oriented training to students of Civil Engineering from MEC.
- To conduct training programs for students to propagate the best construction practices and also to update the students on the recent developments in the design and construction field.
- To develop skills in application of theory to practical work, in the field of Civil Engineering.
- MEC with assistance from CED shall submit projects to research funding organizations for financial support.
- To provide practical knowledge under supervision of qualified engineering or technical staff of CED, TVM. MoU signing with CED.

PLACEMENTS

Name of the Student Placed	Name of the Employer
Afsana Hakkim	Kerala State Nirmithi Kendra
Akhila A.	Parsons Overseas Ltd., Dubai
Anjana B. J.	Sobha Ltd. Bangalore
Anjana S. A.	Allianz
Lakshmi Mevallur B.	Kerala State Construction Cooperation Ltd.
Liju G. A.	Costford
NeethuSabu	Liquid Propulsion Systems Centre, IIST
Preethi S. I.	Infosys
R. RadhuRadhakrishnan	South Central Railway
ReshmaRajan	Kerala State Nirmithi Kendra
Sona N.	Infosys
Vrinda U.	SBI

EDITORS

Staff Editors

Prof. Joisy M. B.
Prof. Sanobiya B. S.

Student Editors

Mr. Harigovind
Mr. Abhijith J. B.
Mr. Prasidh Prem Nair

