

TechZine

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Jyothy Institute of Technology



Department of Civil Engineering

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Affiliated to

Visveswaraya Technological University,

Belagavi





TechZine

Department Of Civil Engineering
Jyothy Institute of Technology

ABOUT THE DEPARTMENT

Civil Engineering is a diversified and one of the oldest branches of Engineering that encompasses study in fields of Structural engineering, Geo technical Engineering, Environmental Engineering, Construction Engineering and Management & various other specialized areas. The Civil Engineering mainly involves Planning, Analysis & Design of different infrastructure projects & implementation through sustainable approach on a turnkey basis. The Departmental facilities of the college include state of art laboratories that also encapsulates Structural & Geo spatial software's in CAD lab and sophisticated state of art equipment required for conceptualization. The facilities also include advanced teaching techniques for undergraduate students in the smart classrooms. The objectives of the course call for effective teaching by experienced faculties through use of different pedagogical facilities thereby creating vibrant learning ambience and this is exacerbated through webinars, 'guest lectures, workshops etc. Our faculties are associated with R&D and consultancy works for improvement of quality teaching that makes the Department one of the most sort of Department in entire Bangalore. The faculty members contribute to academic development by publishing books and presenting papers in International Conference, National conferences and journals.

VISION OF INSTITUTION

To be an institution of excellence in engineering education, innovation and research and towards evolving leaders for country's future work great the and meeting global needs.

MISSION OF INSTITUTION

The Institution aims at providing a vibrant, intellectually and emotionally rich teaching learning environment with the State of the Art Infrastructure and recognizing and nurturing the potential of each individual to evolve into ones own self and contribute to the welfare of all

VISION OF DEPARTMENT

To be a global center of excellence in imparting quality education in all the frontiers of civil engineering for the development of the society

MISSION OF DEPARTMENT

- M1:** To educate the students in the field of Civil Engineering by adopting best teaching learning process with state of the art facilities and infrastructure
- M2:** To encourage the students to contribute to the development of the society by pursuing a promising career in the industry by making them employable with the necessary soft skills and leadership qualities
- M3:** To encourage the students to pursue higher studies and carryout research and development in various fields of Civil Engineering

HOD MESSAGE

The Department of Civil Engineering has a well-defined plan to coordinate and implement various academic, extra-curricular and co-curricular activities carried out for overall growth of the Department. The faculty members constantly interact with various experts from academics and industry to evolve and organize the different events of the Department with an objective of bridging the academic and industry gap. The target plan of the Department envisages activities that involve conduct of industry-oriented workshops, industrial visits, guest lectures, software training, student participation in various paper presentation competitions and other student technical events. These activities are keeping in tune with the Departmental vision of attaining Engineering excellence in all frontiers of Civil Engineering. This is expected to be achieved through well planned and coordinated efforts of the teaching and non-teaching staff, who are credible and committed to the core for meeting the envisioned departmental standards.



Extensive survey camp for 6th Semester students was conducted from 6th April 2022 to 13th April 2022 near Golahalli village. The students were trained to Survey Old Tank Projects, Proposed New Tank Project, Town planning, Canal Alignment and Highway Engineering.





Academic and Laboratory Audits were done by external auditors from MSRIT on 12th May 2022. The team was led by Mr. Prashanth Sunagar.



AWS Orientation program for 6th semester students was held on 20th May 2022. The Workshop was headed by Dr. Manoj Kumar Associate Professor, Department of CSE, SPOC, AWS Academy and Mr. Basavesh.

The students will explore cloud computing services, applications and learn how to develop a global infrastructure to support and invent innovative technologies. The course duration will be approximately 60 hours.



A talk on “Innovative Project Ideas in Civil Engineering” was conducted at Jyothy Institute of Technology in association with the Indian Concrete Institute - KBC on 26th May presented by Dr. Jagadish Vengala, Head, EDC & Innovation Centre, PVPSIT, Vijayawada. The talk was conducted with the objective of introducing the students to wide variety of project ideas. The presentation commenced with the introduction to different aspects in projects and their challenges. The students were given examples of various projects under different course works.



A workshop on “Language of Lines” & “Art of understanding Drawings” was conducted at Jyothy Institute of Technology in association with the Indian Concrete Institute - KBC on 6th June 2022. The workshop was conducted by Mr.K.N. Keshava Prasad, Founder, Shilpa Shrungar, Bengaluru. It was organized with an objective of introducing the students to the idea of reading plans, sections, elevations and perspective views. A MOU was signed between Civil Engineering Department, JIT and Shilpa Shrungar.

A generous initiative of blood donation camp in association with Lion's Club was organized on 09th June 2022. 231 units of blood was donated in the initiative.



An MOU was signed between Mr. Suchit(NSSP Pvt.Ltd.) and Jyothy Institute of Technology on 09th June 2022 . This will ensure that our students are directed towards practical approach about Civil Engineering aspects.

An official co-curricular group “ Roof Raisers Club” of the Civil Engineering Department was launched on 9th June 2022. All the activities conducted by Civil Engineering Department in areas of technical competitions, cultural programs and sports will now be continued with coordination from The Roof Raisers Club.

Shilanyas 2k22



ROOF RAISERS CLUB

Shilanyas 2k22 was organized by the Department of Civil Engineering from 9th June 2022 to 11th June 2022.

The Department Fest included inter branch activities such as Musical Ranging, Men's cricket, Women's cricket, Tug of War and documentary video making competition.





Local Inspection Committee visited on 18th June 2022. The Department of Civil Engineering was provided with a very good feedback, appreciating the quality of labs, the faculties as well as the management's support.



Final year students of Civil Engineering Department participated in National Level Project Exhibition held at City Engineering College, Bengaluru on 21st June 2022. The Project was titled “Experimental Studies on Behaviour of Stabilized Mud Blocks using Industrial Biproducts and Geofibres.”



International Yoga Day was celebrated in the college premises on 21st June 2022. The International Day of Yoga has been celebrated across the world annually on June 21 since 2015, following its inception in the United Nations General Assembly in 2014. Yoga is a physical, mental and spiritual practice which originated in ancient India.



Jyothy Group of Institutions organized a 5K Cross Country Marathon #runforhumanity on 25th June 2022. All the participants were awarded with a certificate and medal.



A talk on “Unforgivable acts of Concrete” was organized by ICI in association with Civil Engineering Department, JIT on 30th June 2022. The talk was delivered by Er. V.R.Kowshika, Director, QCRETE Readymix India Pvt.Ltd. The talk was conducted with an objective to enhance students’ knowledge regarding different wrong practices done while casting concrete and their after effects. An MOU was also signed between QCRETE Readymix India Pvt.Ltd. and Jyothy Institute of Technology for providing more opportunities for our Civil Engineering students.



A hands-on Workshop on Autodesk AutoCAD was conducted on 6th July 2022 by Medini Technologies in association with Jyothy Institute of Technology. The workshop covered the necessary basics and shortcut commands required for proper utilization of the software. Further, the students also gained knowledge about drafting a plan with respect to building code provisions. An MOU was signed between Jyothy Institute of Technology and Medini Technologies to give software based industrial experiences.

OPEN DAY – 14/07/2022 VISIT BY MEI POLYTECHNIC

The principal, staff, pre-final year and final year students of Department of Civil Engineering, MEI Polytechnic, Bengaluru visited Jyothy Institute of Technology Campus on 14th July 2022.

The inaugural event was presided by Dr.K. Gopalakrishna, Principal, JIT. The students were briefed about college, the research facilities, academic records and accomplishments in various co-curricular activities including sports, culturals, international competitions, etc. by Dr.K. Gopalakrishna. Further, the accomplishments and progress report of Department of Civil Engineering was highlighted by Dr. Sreekeshava.K.S, Head of Department, Civil Engineering, JIT.



Visit To Centre for Incubation, Innovation, Research and Consultancy (CIIRC)

CIIRC is a multidisciplinary research, innovation and incubation centre and a joint initiative by Sri Sharadha Peetham, Sringeri, and Jyothy Institute of Technology (JIT). It is centralized R&D centre of JIT besides being recognized by DSIR as a Scientific and Industrial Research Organization (SIRO) centre with DSIR certification.



Dr. Krishna Venkatesh, Director, CIIRC, briefed the visitors about the research progress and facilities available in Centre. He highlighted the various research opportunities available in remote sensing, autonomous systems-spatial mapping, biopolymer and composites, agriculture, water purifications, etc.

The students were divided into five batches and the labs of CIIRC were introduced to them. The labs included Biopolymers and Bio composites, Energy, water, Environment, Sophisticated Instrumentation facility, Sensors and Ink lab and Remote Sensing.





Sensors and Ink Lab

The focus of the research is on the development of novel nano and micro-technology-based sensing approaches for medical diagnostics, in collaboration with academic, clinical and industrial partners from both India and abroad

Biopolymers and Bio Composites Lab

Agricultural byproducts and coproducts are converted into value added bioproducts to replace synthetic polymer-based products. Examples include biodegradable and inexpensive packaging materials for food and non-food products, biodegradable printed circuit boards, low-cost fiber-based sapling pots and trays, light-weight highly insulating false ceilings.



Sophisticated Instrumentation Facility

Material characterization forms the basis for understanding the physical and chemical properties of a material, leading to its potential applications in various domains of science and technology. The SIF Lab houses several spectroscopic, chromatographic, microscopic and thermal instruments.



Remote Sensing

Remote Sensing is a multidisciplinary technique cum methodology in which spatially resolved images and spectra are collected from satellite, aircraft or remote stations and used to identify and map surficial features. They send a pulse of energy from the sensor to the object and then receive the radiation that is reflected or backscattered from that object.



Environmental Lab

CO₂ capture, its transportation and storage are three main steps in Carbon dioxide Capture and Storage (CCS) technology. CO₂ absorption onto solid sorbents has been widely investigated as a means of alternative to benchmark absorption technology. The research on CCS Technology is being conducted to a large extent lately.



The energy research team at the Centre has successfully developed an iron electrolyte based Redox Flow Battery (IRFB) funded by DST under its flagship MES Scheme.

Water treatment by means of technologies such as membrane separation, ion exchange, reverse osmosis, oxidation, photocatalysis and adsorption is currently in practice.

Water and Energy Lab



Visit To Civil Engineering Department Laboratories



The event concluded with Prof.H.S.Vishwanath, HoD, Civil Engineering Department, MEI Polytechnic and Dr.Sreekeshava.K.S, HoD, CE Department, JIT summing up the day's event in a short talk







Karnataka State Council of Science and Technology(KSCST) have sanctioned project fundings under “Student Project Program-45th Series” for two groups of final year students. One group is selected for VTU Project .



OPEN DAY – 26/07/2022 VISIT BY SJ GOVT. POLYTECHNIC

The Head of Department, staff and final year students of Department of Civil Engineering and Environmental Engineering, Sri Jayachamarajendra Government Polytechnic, Bengaluru visited Jyothy Institute of Technology Campus on 26th July 2022.

The inaugural event was presided by Dr.K. Gopalakrishna, Principal, JIT and progress report of Department of Civil Engineering was highlighted by Dr. Sreekeshava.K.S, Head of Department, Civil Engineering, JIT. The students visited CIIRC labs and Department Labs.



The students of Civil Engineering Department, JIT participated in SRISHTI-INNOVATION EXCHANGE State Level Competition held at BMSCE, Bangalore on 27th July 2022. The winners were awarded by Honourable VC Dr.Karisiddappa.



6th Semester students, Ms.Jannavi, Mr.Sai Rajaram Naidu, Mr.Shreyas Gowda and Mr.Shreyas.K.M won 1st place in BridgeIt Competition.

8th Semester students, Mr.Kiran Kumar, Mr.Babu, Ms.Anagha and Mrs.Kavyashree won 2nd place in BridgeIt Competition.





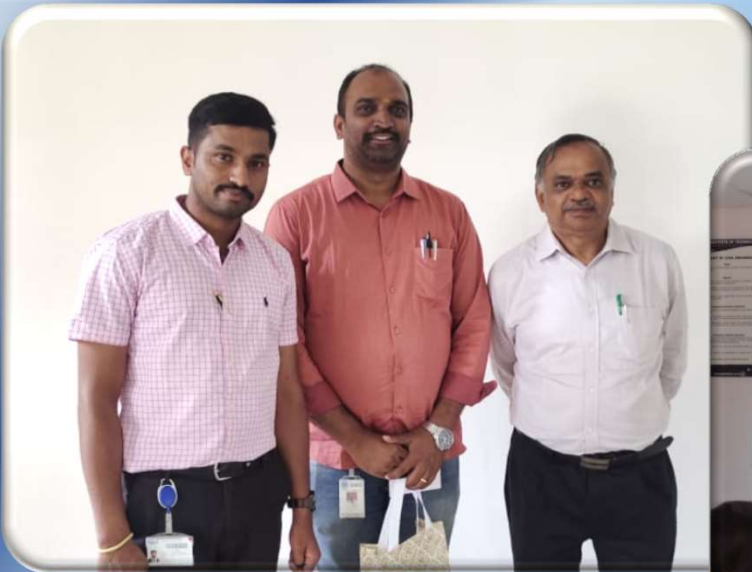
8th Semester students, Mr.Wani Shahid Rashid and Mr.Majid Manzoor won 2nd place in TechQuiz Competition.



Two batches of 8th Semester students represented the department in Project Exhibition. The participants included Mr.Vajresh, Mrs. Kavyashree, Mr.Punith, Mr.Goutam, Mr.Sanjay and Mr. Nagesh.

PROJECT EXHIBITION 2021-22

28/07/2022



The event was judged by Mr.Vinay ML Gowda, Assistant Professor, Civil Engineering Department, BMSCE and Dr.Sreekesava.K.S, HoD and Associate Professor, Civil Engineering Department, JIT. The participants were judged on the basis of Objectives of the Project, its Societal relevance, novelty of participants in the approach, their presentation and their answers to the questions asked with respect to the idea.



The project titled “Geotechnical Characterization and Determination of Heavy Metals in Contaminated Soil near Mining Area” was declared winners for their novel work and the idea being very much required for present conditions in soil contamination point of view. The participants were Mr.Praveena, Mr.Punith G, Mr. Vajresh R and Sharath K.



The project titled “Photocatalytic Degradation of Rose Bengal Dye using Cobalt Oxide (Co_2O_3) Nanoparticles” were declared runners as it benefited the current societal relevance for requirement to control water pollution. The participants included Ms.Deepika.R, Ms.Ganavi.K.S, Ms.Kavyashree.S and Ms.Nishmitha.N.R.

NCC-RANK DISTRIBUTION

28/07/2022



Students of Civil Engineering are active members of College NCC group. Rank Distribution for the NCC Cadets was organized on 28/07/2022 in college premises.

