

# TechZine

ISSUE : EVEN SEMESTER 2022-23

JYOTHY INSTITUTE OF TECHNOLOGY



Department of Civil Engineering

Accredited by  
National Board of Accreditation



Affiliated to  
Visveswaraya Technological University,  
Belagavi





# TechZine

## Department Of Civil Engineering

### Jyothy Institute of Technology

#### 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.

#### 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.

#### 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

#### 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.

# Technical Talk on “Build your Future”

A Technical Talk on “Build your Future” was conducted at Jyothy Institute of Technology in association with Indian Concrete Institute(ICI)- KBC on 28<sup>th</sup> February 2023.



The workshop was conducted by Mr.V R Kowshika, Director, QCRETE Readymix(India) Pvt. Ltd. Bangalore.

A discussion about passion, etiquette, confidence and interview preparation.

## INDUSTRIAL VISIT TO LINGANAMAKKI DAM & POWER HOUSE

(03-03-2023)

&

## VARAHI UNDERGROUND POWER HOUSE

(04-03-2023)

The Department of Civil Engineering organised an Industrial Visit for the final year students of the Department. The students were taken to the two most sought after places.



The Linganamakki dam in the Sharavathi valley is situated 8 miles downstream of Hirebhaskar reservoir and 2 miles upstream of Kargalanicut.

The reservoir is designed to store a gross capacity of 178TmC of water.

2 Kaplan turbines having 39,600BhP capacity each with 6 blades run at a speed of 200rpm giving an output of 28500kW power. It supplies about 20-25% of power required by Karnataka costing around 0.62 paise per unit, making it the cheapest powerplant in India.



Initially conceived as a surface power house at the blueprint stage, Varahi was later converted into an underground Powerhouse. The decision for the changeover was based on three key parameters : technical, economical and our concern for environment protection.

This consists of 4 x 115 MW Generating Units at Varahi underground Powerhouse and two 4.5 MW units in the power house at the Mani Dam site. Varahi project consists of the main reservoir formed by Mani dam, a balancing reservoir formed by pickup dam and forebay dam.

The students gained enough knowledge about the working of turbines, power generation, power supply, amount of power generated in each industry, cost per unit ,losses, working models of overall project.

The visit enlightened towards practical approach and learning through interaction and working practices

# Bridge Building Tournament

The students of Department of Civil Engineering participated at Param Innovation BRIDGE BUILDING Tournament on 26<sup>th</sup> March 2023 organised by Param Décor, Jayanagar.



The Bridge Building Competition showcased the talent and expertise of participating teams in the field of bridge construction. The competition's format, with its focus on both length and design creativity combined with design criteria and strength, encouraged teams to think innovatively and strategically. Following students attended the tournament:

Ajay Kumar (1JT19CV003)

Kiran N (1JT19CV008)

Padma R (1JT19CV010)

Shreelakshmi B.R (1JT19CV016)

Shreyas KM (1JT19CV018)

Surya Gowda T (1JT19CV020)

# Technical Talk on “Filing Patent”

A Technical Talk on “Filing Patent” was conducted at Jyothy Institute of Technology in association with Indian Concrete Institute(ICI)- KBC on 25<sup>th</sup> April 2023.



The technical talk was conducted by Dr.Palaniswamy, Assistant Professor, National Institute of Technology, Surathkal. The speaker discussed about filing patents, procedures and benefits of filing patents. Further, a discussion about parallel career option was done.

# 5 Days Workshop on “Creativity to Construction”

A workshop on “Creativity to Construction” was conducted at Jyothy Institute of Technology in association with Indian Concrete Institute(ICI)-KBC from 8<sup>th</sup> May 2023 to 12<sup>th</sup> May 2023 in the presence of the students and staff of Civil Engineering Department. The workshop was presented by Mr. Keshav Prasad, Founder, Shilpa Shrungar Architects, Bangalore.



The workshop was designed on the basis of the requirements of students which was decided upon after an interactive session that was held on 2<sup>nd</sup> May 2023. The students were guided about effective planning and utilisation of spaces. They were also encouraged to think creatively and make any hands on model using popsicle sticks.



# Extensive Survey Camp

## 2022 - 23



Extensive survey camp for 6th Semester students was conducted from 28<sup>th</sup> March 2023 to 12<sup>th</sup> April 2023 near Chinnakuruchi village. The students were trained to Survey Old Tank Projects, Proposed New Tank Project, Town Planning, Canal Alignment and Highway Engineering.



# Project Exhibition

## 2022 - 23

Project Exhibition 2022-23 was held at Jyothy Institute of Technology on 9<sup>th</sup> May 2023 (Tuesday).



The event was judged by Mr. Keshav Prasad, Founder, Shilpa Shrungar Architects, Bangalore. and Dr.Sreekeshava.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 “Phycoremediation of Waste Water using Green Micro Algae” was declared as winners as it new concept and benefits to construction industry. The participants included Ms. Padma, Mr. Shreyas K M, Mr. Rahul and Mr. Asrar Ahmed Parray.



The Project titled “Parametric Study on Analysis and Design of different steel truss configurations using ETABS” was declared as runners as it societal relevance to structural analysis. The participants included Ms. Preeti P Katenahalli, Mr. Dharshan K, Mr. Aadil Mohuddin and Mr. Suhanth Gowda B K

# ACHIEVEMENT

## KSCST Student Project Proposal Approval for Sponsorship 2022-23

The Project titled “Phycoremediation of Waste Water using Green Micro Algae” has selected for KSCST Project Sanctioned for the academic year 2022-23. The participants included Ms. Padma, Mr. Shreyas K M, Mr. Rahul and Mr. Asrar Ahmed Parray under the guidance of Dr. Sreekeshava K S, HoD and Associate Professor, Department of Civil Engineering.



# ACHIEVEMENT



Students from various branches (Mech, CSE, ISE, CV and EC) participated and has been awarded 6<sup>th</sup> place champion in the “Design Report” category and bagged 9<sup>th</sup> place in the overall championship at the recently conducted SAE-(AERO DESIGN EAST) Design and Development of Micro Aerial Vehicles” conducted at Lakeland, Florida USA,2023.

# PLACEMENT

Civil Engineering students placed at various core companies

Cognizant



Jannavi S

Package of 4.5 L per annum

Gina Engineering Company



Shreyas Gowda T

Package of 2.2 L per annum



Kiran N

Package of 2.2 L per annum

## SLN Infra Company



Nishanth A V N

Package of 2.6 L per annum



Padma R

Package of 2.6 L per annum



Shreelakshmi B R

Package of 2.6 L per annum

## Ebenus Design Solutions Pvt Ltd.



Jannavi S

Package of 2.7 L per annum



Raja Naga Medhesh

Package of 2.7 L per annum

## Black Olive Venture Pvt Ltd.



Shreyas K M

Package of 2 L per annum



# ACHIEVEMENT

## Best Outgoing Student Award for the Academic Year 2022-23

The award was given by Dr. T N Sreenivasa Registrar (Evaluation) VTU Belagavi, to Mr. Shreyas K M and Ms. Jannavi S for their academic excellence at Farewell Day function for batch 2019-23 students on 27<sup>th</sup> May 2023 (Saturday).



# PROFESSIONAL BODY MEMBERSHIP

## INDIAN SOCIETY OF EARTHQUAKE TECHNOLOGY ROORKEE

Our College got Life time Institutional membership of Indian Society of Earthquake Technology (ISET), Roorkee, India.



List of Civil Engineering Faculty got Life time membership of ISET.



Dr. Sreekeshava K S  
LM1887



Mr. Ganesh C R  
LM1888



Ms. Bhargavi C  
LM1889



Mr. Pavan Kumar V  
LM1890

# CONFERENCE



**JYOTHY INSTITUTE OF TECHNOLOGY**

(Approved by AICTE, Affiliated to VTU)

INTERNATIONAL CONFERENCE  
ON  
**INTERDISCIPLINARY APPROACHES IN CIVIL  
ENGINEERING  
FOR SUSTAINABLE DEVELOPMENT  
(IACESD-2023)**

7<sup>th</sup> & 8<sup>th</sup> July 2023



Organized by:

**DEPARTMENT OF CIVIL ENGINEERING**

Accredited by National Board of Accreditation (NBA)



Publishing Partner  
 **Springer**  
**SPRINGER NATURE**

## Organizations / Societies Involved



The G20 C20 International Conference on Interdisciplinary Approaches in Civil Engineering for Sustainable Development (IACESD-2023) was a significant event held on the 7<sup>th</sup> and 8<sup>th</sup> of July 2023. The Proceedings of the conference will be published in 6 volumes by Springer Nature under the Lecture Notes in Civil Engineering Series and One volume by keynote speakers will be published by Taylor and Francis – CRC Press.



# ACHIEVEMENT



Lokesh R (1JT22CV410) Student of Civil Engineering Department participated and won 3rd place in the VTU South Zone Power Lifting (Dead Lift) Competition held at Global College, Bengaluru on 13th July 2023.

## WORKSHOP / SEMINAR

Participated in Two-Day International Seminar, Live Demonstration and Exhibition on Micro, Small, Medium & Large Construction Technologies and Innovations. Organized by Indian Concrete Institute Bengaluru Centre on 13th and 14th July 2023.

