

TechZine

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JYOTHY INSTITUTE OF TECHNOLOGY



Department of Civil Engineering

Accredited by

National Board of Accreditation



Affiliated to

**Visveswararaya 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 and journals.

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.

WORKSHOP / SEMINAR

Department of Civil Engineering students attended in Two-Day National Seminar on Application of AR & VR in Engineering. Organized by K S School of Engineering & Management on 14th and 15th September 2023.



ACHIEVEMENTS

Department of Civil Engineering got prestigious **ICI-Ultra Tech Outstanding Student Chapter Award** for 2023.



Department has successfully organized a series of events in collaboration with the ICI-Bengaluru Chapter, including industrial visit, hands on workshops, interdisciplinary talks and seminars. Additionally, the students have actively participated in state, national and international competitions. This award serves as a testament to the dedication and hard work put forth by the team.

INDUSTRIAL VISIT

BWSSB WATER TREATMENT PLANT - TK HALLI (31-10-2023)

The Department of Civil Engineering organised an Industrial Visit for the final year and pre-final year students of the Department. The students were taken to the water treatment plant at TK Halli.



The value of water treatment and its contribution to public health were taught to the students. The visit specified an understanding of a hands-on approach to learning via interaction and treatment plant activities.

ACHIEVEMENTS

Department of Civil Engineering students participated in State Level Technical Symposium - Force Summit , a 24-hour marathon event held on 16th and 17th November 2023 at Maharaja Institute of Technology, Mysore.



The skill and knowledge of the teams that competed in the discipline of civil engineering were highlighted during this event. The framework of the competition pushed teams to think creatively and strategically by emphasizing design inventiveness together with design requirements and strength. The students listed below competed and won awards.

1st Place in Scripto-Mania

Arunachalam K (1JT21CV401)
Anusha (1JT22CV402)
Balaji T(1JT22CV403)

2nd Place in Model-Mania

Abhishek Gowda R N(1JT21CV401)
Tejaswini S (1JT21CV407)
Naveen K N (1JT22CV413)

FACULTY DEVELOPMENT PROGRAMME



**AICTE Teaching And Learning (ATAL) Academy
Sponsored
One week Technical Faculty Development Programme
on**

**“Integrated Approaches and Sustainable
Practices in Geotechnics”**

20/11/2023 to 25/11/2023

Organized by

Department of Civil Engineering

Accredited by National Board of Accreditation (NBA)

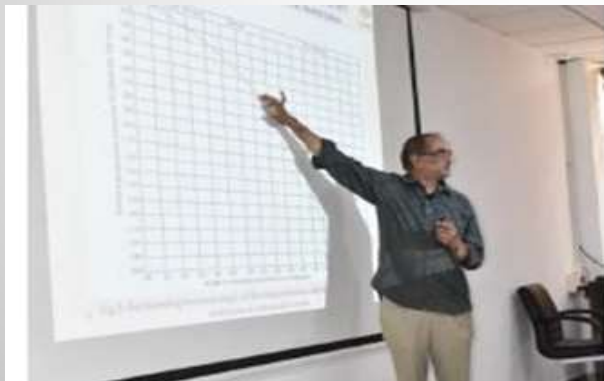
Jyothy Institute of Technology

Approved by AICTE, Affiliated to VTU

Tataguni, Off Kanakapura Road, Bengaluru-560082, Karnataka

The IASPG-2023 focus on innovative and holistic strategies within Geotechnics for achieving sustainability. This programme brings together experts and researches to explore integrated approaches that harmonize engineering with environmental and societal needs.

FACULTY DEVELOPMENT PROGRAMME



FACULTY DEVELOPMENT PROGRAMME



INDUSTRIAL VISIT

ISO – LABS Bengaluru (02-12-2023)

The Department of Civil Engineering organised an Industrial Visit for the final year and pre-final year students of the Department. The students were taken to the ISO – LABS Bengaluru.



The students learned enough about the significance of construction material testing. The experience provided an understanding of a practical approach to learning through practical application and contact with building material testing procedures.

INDUSTRIAL VISIT

VARAHI UNDERGROUND POWER HOUSE (07-12-2023)

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



Varahi Hydro Electric Power Plant, a run-off river project located on the Varahi river near Hosangadi in the Udupi District of Karnataka in India.

Varahi was originally designed as an underground powerhouse, but at the blueprint stage it was intended to be a surface powerhouse. Three main factors played a role in the decision to switch: technological, financial, and environmental concerns.

INDUSTRIAL VISIT

NPCIL – KAIGA & KADRA DAM
(08-12-2023)



Kaiga Nuclear Power Plant, a nuclear power generating station situated at kaiga, near the river Kali in Karwar, Uttara Kannada district of Karnataka, India.

Kadra Dam constructed across river Kali and was primary built as hydroelectric project supply of water to turbines of electric power generating station.

INDUSTRIAL VISIT

EXCON
(15-12-2023)



The students learned about the civil engineering equipment and usage of machines in various civil engineering activities. Different types of sustainable materials used in construction industry and modern tools used in construction industry.

The visit enlightened towards practical approach and learning through interaction and working procedure of construction industry.

WORKSHOP / SEMINAR

Department of Civil Engineering Students Attended in 3 - Day Technical Workshops on “Sustainable Materials and Technologies for Heritage and Traditional Buildings”. Organized by B.M.S. College of Engineering on 21st to 23rd December 2023.



WORKSHOP

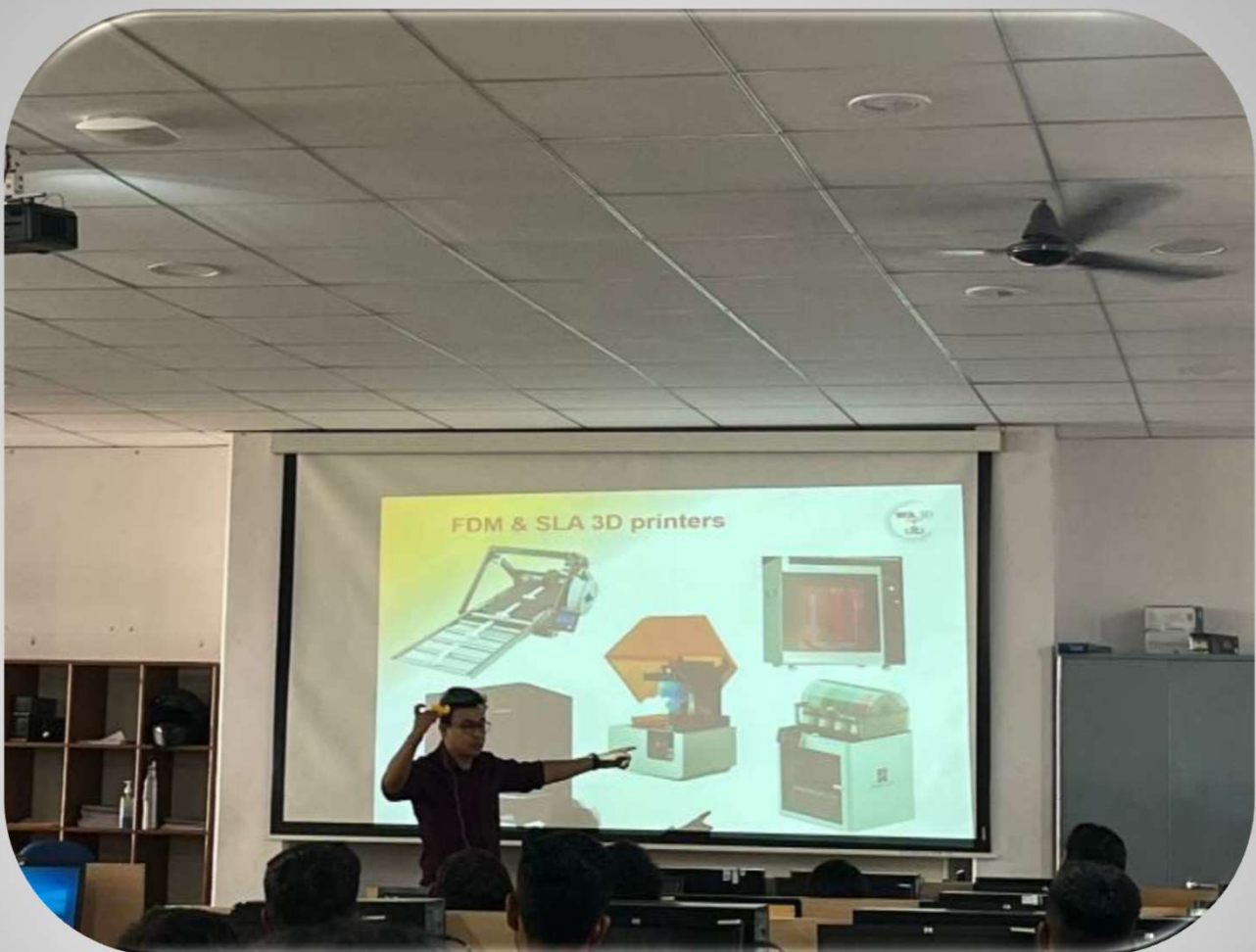
Two Days workshop on “3D Printing Design & Development of Prototypes” was conducted by Department of Civil Engineering at Jyothy Institute of Technology in association with Indian Concrete Institute- KBC and WOL 3D from 4th March 2024 to 5th March 2024.



The event was presided over by Dr. C B Mohan, Vice Principal, Jyothy Institute of Technology, Dr. Sreekeshava K S, Associate Professor and Head, Civil Engineering Department, Dr. Raghavendra Krishna, Associate professor, Department of Mechanical Engineering and Mr. Gowtham from WOL3D.

WORKSHOP

The workshop was setup in such a way the on day one of the workshop students were made to understand the components and methodology of the 3D printing.



The workshop was truly knowledgeable in bridging the 3D printing technology in civil engineering domain. The workshop was well crafted with elemental knowledge of 3D printing to the recent advances in the industry.

WORKSHOP



On day two the workshop was continued with sessions imparting knowledge on the software used in 3D printing. The last part of the workshop was the hands-on session with the live 3D printing done in the research lab at JIT.





JYOTHY INSTITUTE OF TECHNOLOGY

ATAL INCUBATION CENTRE

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