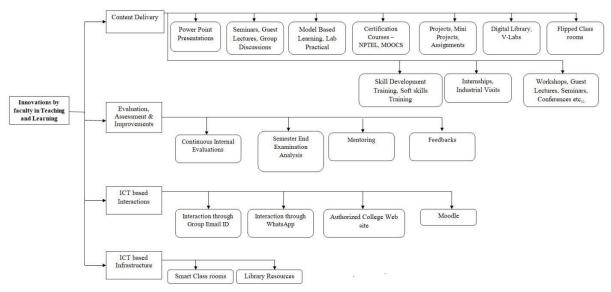


# Department of Civil Engineering TEACHING AND LEARNING PRACTICES

The department has been implementing a variety of innovative approaches to enhance graduates' learning capacities with the ultimate aim of improving student skills.



#### **Goals:**

- To be the pacer for the vision of the institute and the program
- To Improve Students' Academic Performance through quality education in accordance with a quality teaching-learning process.
- To create space for encouraging and supporting innovative research and development activities with an ethical mindset.
- To create a bridge between industry and academia in order to better serve the industry and society.
- To continue learning throughout one's life and to take the lead in both their chosen field and extracurricular activities.
- To create graduates, successfully engage with stakeholders and perform quality work using the required tools.
- To instill Positive Action principles into students' cognitive, affective and behavioral learning domains to gain leadership qualities.
- To develop well-rounded students: including physically, intellectually, socially and emotionally
- To create a positive learning environment throughout the Institution
- To impart the knowledge that all of the institute's activities and curriculum are productive.
- To understand research-based theories of learning, education, behavior change and their relationships to Positive Action.

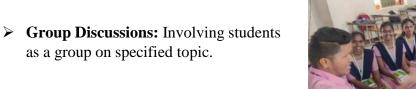
- To develop administrators who use positive approaches to leading and institute management.
- Involves the stakeholders in education by offering support and resources to the institute as well as creating a favorable environment for students.

## **PRACTICES**

Laboratory Teaching: Students are taken to labs and given a live demonstration on a specific topic in order to better understand it.



ICT CLASS ROOMS: Along with blackboard teaching, faculties are using multimedia tools such as PowerPoint presentations and educational videos in the class.

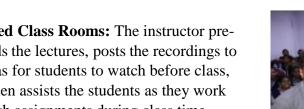




Guest Lectures/Seminars/Workshops, Conferences: Practice of guest lectures are being organized to bridge the gaps in course& research or Industrial needs

> Skill Development Program: Practice of SDP's are being organized to bridge the gaps in course & research or Industrial needs

> Flipped Class Rooms: The instructor prerecords the lectures, posts the recordings to Canvas for students to watch before class, and then assists the students as they work through assignments during class time.









- Soft Skills Training: The training was conducted in a very informal, interesting, and interactive manner, allowing ample opportunity for students to interact with one another.
- Quiz: Promoting Self-Improvement of Students by Conducting Quizzes in teams or individuals and also Intended to encourage fun learning while also enhancing the Knowledge.



Internships: Professional learning opportunity that provides relevant, hands-on work pertinent to a student's area of study or career interest.



Industrial Visits: An industrial visit is important in the future of a student seeking a professional degree. It is taught as part of the academic curriculum, most notably in engineering classes. The goal of a workplace tour is to give students an understanding of how companies operate on the inside. We all know that theoretical understanding is insufficient for a successful professional job. Beyond academics, workplace visits give students a real view on the world of work.



- Certification Courses: Helps to boost the efficiency, improves the knowledge & skills, assist in gaining a thorough grasp of the industry, gives the motivation to attempt & succeed in Competitive fields.
- **E-Resources**: Students will be able to Get Knowledge even at remote locations.
- Design thinking for innovation: Institution has included the course in the curriculum for enhancing the Creative Problem Solving Skills.

 Case Study: Improves the learning capabilities, leadership Qualities, teamwork, practical learning.





Club Activities: Active engaging in the clubs helps to enhance the selfassessment, imports the self- learning capabilities.

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#### **RESOURCES:**

YouTube: https://www.youtube.com/channel/UCpPt797LX4G-CTkWrDfsZXQ V-labs: https://www.vlab.co.in/broad-area-civil-engineering E-Materials: http://www.freeengineeringbooks.com/Civil/Civil-Engineering-Ebooks.php E-Library: https://ndl.iitkgp.ac.in/ Instructional Material:

### **WORKING MODELS:**

The department has been establishing the working models described below on the premises of the institute with funding provided by Srinivasa Educational Society.

**1. Bio gas Plant:** Helps the students to understand the concept of anaerobic digestion Process of Bio waste.



2. Sewage Treatment Plant: A 30KLD Sewage Treatment Plant was Installed to treat the sewage generated in institute and helps the students to understand the about sewage treatment

**3. Vermi-composting:** 8' X 6' composting chambers are used to treat organic waste to Manure with the help of warms





**4. Rain water Harvesting Pit:** 6cum recharge pits constructed to collect the rain water in the institute premises



5. RO water Treatment Plant: 2000 LPH RO Treatment Plant Installed to treat the raw water and also helps the students to get an idea about treatment of Raw water

