ESWAR COLLEGE OF ENGINEERING
(Approved by AICTE, & Affiliated to JNTUK, A.P.)
KESANUPALLI (V), NARASARAOPETA-522549, AP
www.eswarcollegeofengg.org, email:eswarcollegeofengg@gmail.com

3. Problem-solving methods

Problem-solving methods are fundamental to engineering education, as they equip students with the skills needed to analyze, evaluate, and devise solutions to complex engineering challenges. Here are some problem-solving methods commonly utilized in engineering colleges:

1. **Analytical Problem-Solving**: This method involves breaking down a problem into its constituent parts, identifying relevant variables and constraints, and applying analytical techniques to develop a solution. It often involves mathematical modeling, simulation, and data analysis to understand the problem's underlying principles and relationships.
2. **Design Thinking**: Design thinking is a human-centered approach to problem-solving that emphasizes empathy, creativity, and iteration. It involves understanding user needs, defining problem statements, generating ideas, prototyping solutions, and testing them in real-world contexts. Design thinking encourages interdisciplinary collaboration and the exploration of multiple solutions.
3. **Algorithmic Problem-Solving**: In fields such as computer science and software engineering, algorithmic problem-solving involves developing step-by-step procedures (algorithms) to solve computational problems efficiently. It requires understanding algorithmic complexity, data structures, and algorithm design techniques.
4. **Decision Analysis**: Decision analysis methods help engineers make informed decisions in the face of uncertainty by systematically evaluating alternatives, assessing risks, and considering trade-offs. Techniques such as decision trees, cost-benefit analysis, and multi-criteria decision-making frameworks aid in selecting the best course of action.

By teaching and practicing these problem-solving methods, engineering colleges prepare students to tackle a wide range of engineering challenges effectively and innovatively, contributing to advancements in science, technology, and society.

Problem-solving methods: Students **P**articipate in various inter-college and intra-college technical fests and other competitions such as:

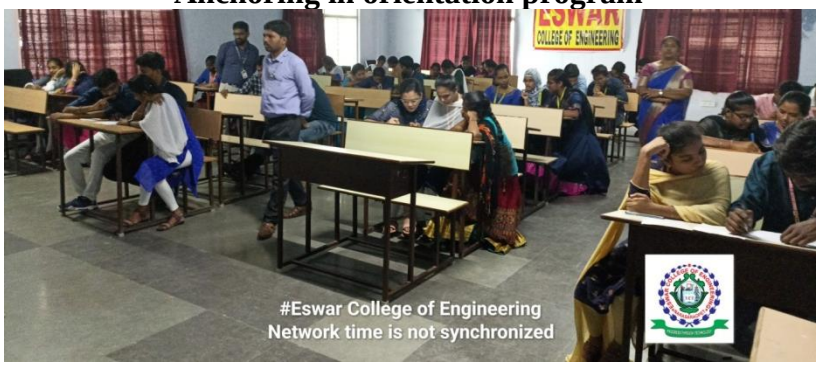
In-house summer training with project development, Regular Assignments based on problems, Mini Project development, Regular Quizzes, Case studies Discussion, Class presentations, Debates , Participation in Inter college events

Case study discussion with students in 003 lab

Class presentations

Mini Project development Participation in college events

Anchoring in orientation program



Regular Quizzes in room no 009

Case studies Discussion in digital room 120

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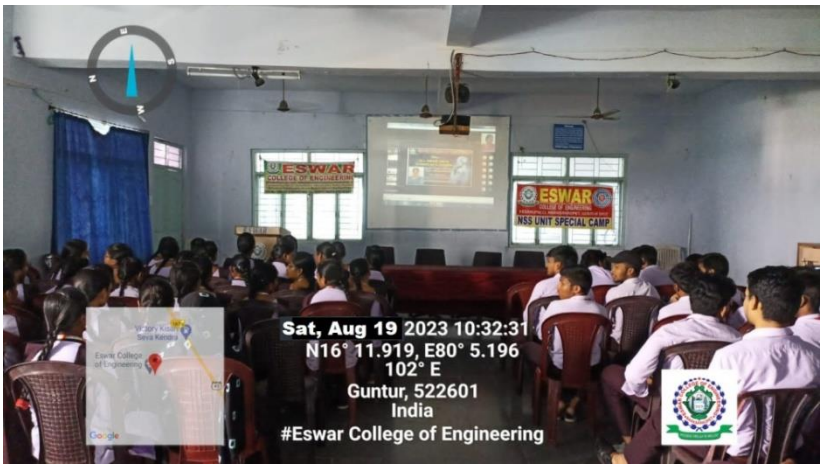
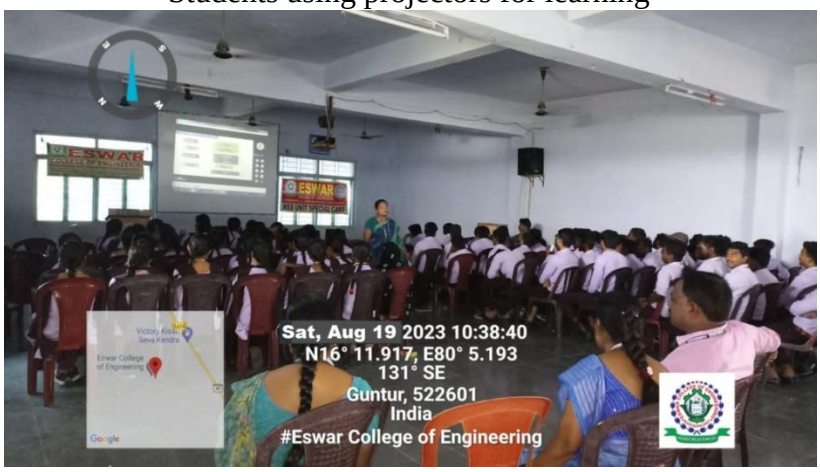
ICT Tools

- Use of Projectors , Internet facility , Seminar hall , Online Classes through Zoom, Google Meet, Microsoft Team, Google Classroom, Digital Library resources.

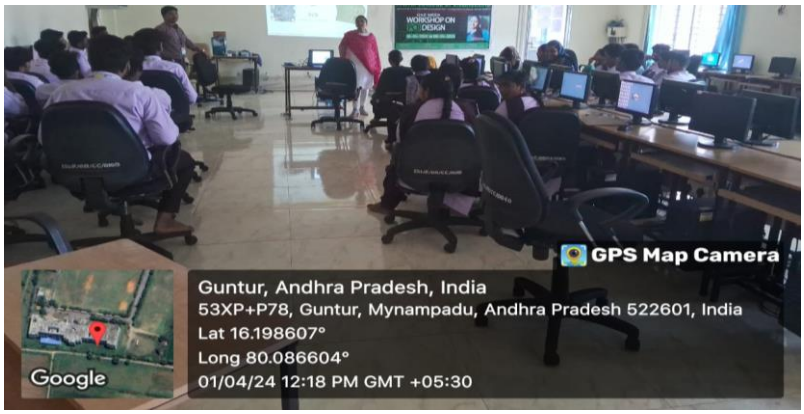


Students using projectors for learning



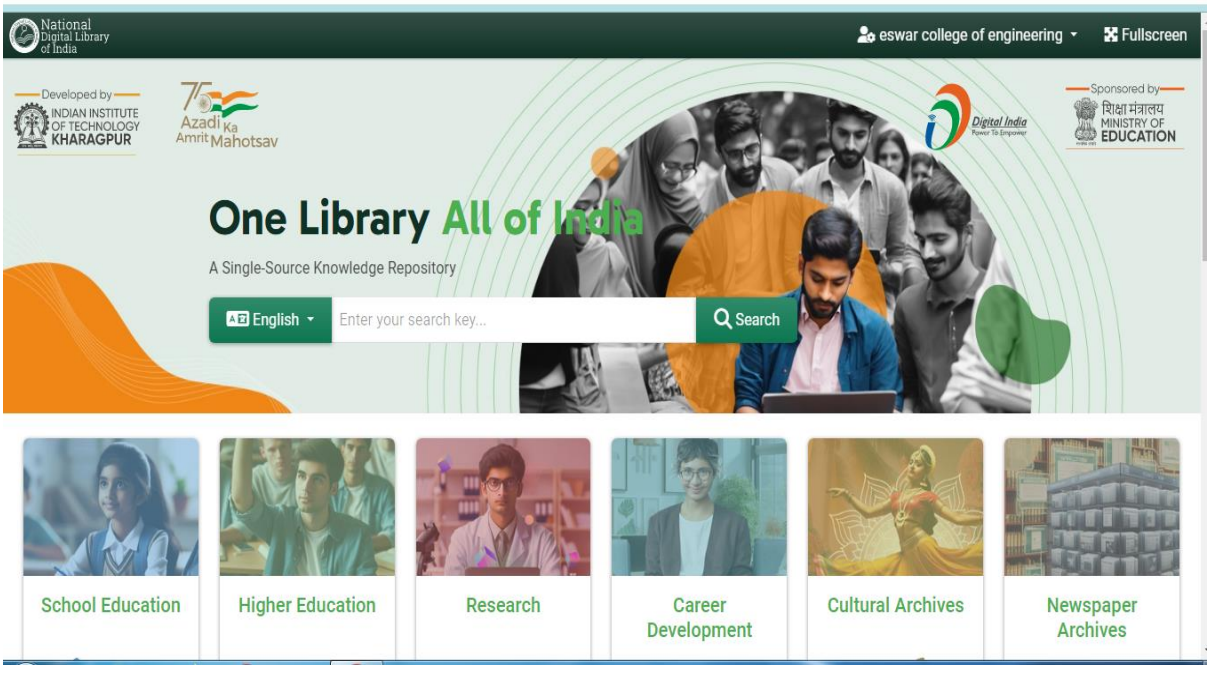
Students utilizing ms teams for improving skills

Using ICT tools for learning in Room no 202



Students participating in workshop using projector at computer lab 003

Digital Library in Eswar central library



National Digital Library of India (NDLI)

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Providing internet facility

Jio DIGITAL LIFE

Original for Recipient

Shaik Dada Saheb Charitable Trust
Na,Eswar College Of Engineering,
KESANUPALLI,
Narasaraopet,Guntur,
Andhra Pradesh-522601,India

Account Number	:	900291009130
GST Bill Number	:	C37E242500000612
Document Number	:	552000195941
Invoice Date	:	01-APR-2024
Due Date	:	18-APR-2024

BHIM UPI

Place of Supply: 37 Andhra Pradesh

Connectivity Services

GST Registration Number: Not Available
Organisation PAN : AAHTS1313H

Your ILL Bill

Refer following pages for details of charges

Payment Received (₹)	TDS Deducted / Reversed (₹)	Previous Adjustment (₹)	Previous Balance (₹)	Current Charges (₹)	Total Dues (₹)
0.00	0.00	0.00	810.81	69,324.99	70,135.80

Shaik Dada Saheb Charitable Trust | Document Number: 552000195941 | Invoice Date: 01-APR-2024

Product: ILL

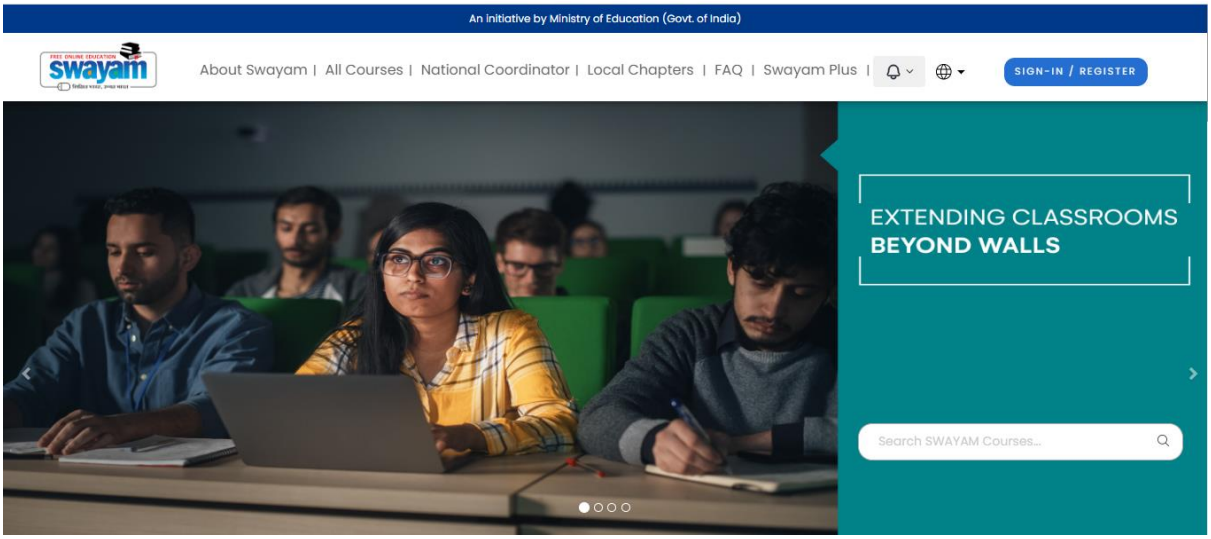
Periodic Charges for the Biling Period - Existing Circuit

Per Site Recurring Charges for the Period - 01-Apr-2024 to 30-Jun-2024

Sr. No.	No of Sites	Bandwidth	Bandwidth	CPE	SLA	Additional LAN IP	CoS	Managed Service	Secondary Link	Amount (₹)
1	1	50 Mbps	58,749.99	0.00	0.00	0.00	0.00	0.00	0.00	58,749.99
Sub total 1			**58,749.99**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**58,749.99**

Periodic Charges for the Biling Period - All Circuit

Sr. No.	No of Sites	Bandwidth	Bandwidth	CPE	SLA	Additional LAN IP	CoS	Managed Service	Secondary Link	Amount (₹)
1	1	50 Mbps	58,749.99	0.00	0.00	0.00	0.00	0.00	0.00	58,749.99
Total	**1**		**58,749.99**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**58,749.99**



Study Webs of Active-Learning for Young Aspiring Minds".