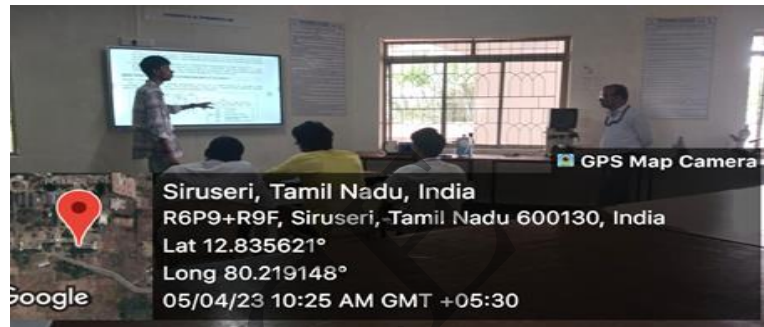




**Department of Mechanical Engineering**  
**Innovative Teaching Methods**

Activity Title	Case Study Presentation
Faculty Name/Department	Dr.S.Prasath / Mechanical
Mapped Course Name & Code	ME3492-Hydraulics and Pneumatics
Date	05-04-2023
Benefitted Students (Year / Sem / Dept)	II / IV / Mech
Topic	Case study presentation on Valves and Circuits
Description	<p>Implementation of Case study learning methodologies used for mechanical Engineering Student's careers in order to prepare for future graduate studies as well as for their professional lives</p> <p>Valve case study A variation of a pressure-compensated flow control valve is a temperature-compensated flow control valve. This variation comes because sometimes the temperature of the operation may rise such that set tolerances in orifices will become inaccurate. Temperature compensators are installed to cater to these variations.</p> <p>Circuits Case study on design of hydraulic circuit and analysis Case study</p> <ol style="list-style-type: none"><li>1. Problem definition: package lifting device (hydraulic system).</li><li>2. Problem definition: furnace door control.</li><li>3. Problem definition: hydraulic car lifting system. etc.</li></ol>
Course Outcomes (CO)	<p>CO2: Summarize the features and functions of Hydraulic motors, actuators, and Flow control valves</p> <p>CO3 : Explain the different types of Hydraulic circuits and systems</p>
Performance Indicator (PI)	1.3.1
Mail ID (for review)	<a href="mailto:mech.prasath@msajce-edu.in">mech.prasath@msajce-edu.in</a>

## Activity Photos



**Marks:**

Group Name (if ITM is a group activity)	Reg No.	Topic	Marks
TEAM A	311821114001	Valve case study And Case study on design of hydraulic circuit and analysis Case study 1. Problem definition: package lifting device (hydraulic system). 2. Problem definition: furnace door control. 3. Problem definition: hydraulic car lifting system. etc.	20
	311821114002		
	311821114003		
	311821114004		
	311821114005		
	311821114006		
TEAM B	311821114007		20
	311821114009		
	311821114010		
	311821114011		
	311821114012		
TEAM C	311821114014		10
	311821114015		
	311821114016		
	311821114017		
	311821114018		
TEAM D	311821114301		20
	311821114302		
	311821114303		
	311821114304		
	311821114305		
	311821114306		
	311821114307		
	311821114701		

**Outcomes:**

These different case studies of hydraulic valves and hydraulic circuits are used to know and understand the components, construction, location, function, circuit diagram, and case studies of different failures in the hydraulic systems. This improves the student's interest in the Internal Assessment Test.