**Innovation in teaching learning process**

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**Activities:**

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| **Sr.No.** | **Activity** | **Class** | **Description** |
| **1** | **Assembly and Dissaembly** | **SY, TY** | Event Activities:  Disassembly and Assembly: Students participated in disassembling and assembling hydraulic cylinders and hydraulic jacks under the guidance of experienced mentors. They learned about the various components, seals, and mechanisms involved in these hydraulic systems.  Measurements and Analysis: Participants took measurements of different parts of the hydraulic cylinders and jacks using appropriate tools and instruments. This activity helped them understand the importance of precision and accuracy in engineering components.  Failure Analysis: Students analyzed the causes of failure in hydraulic cylinders and jacks. Through visual inspection and discussions, they identified common failure modes such as seal degradation, piston wear, and hydraulic fluid leakage. This exercise provided valuable insights into maintenance and troubleshooting practices.  Key Learnings:  Hands-on Experience: The event provided students with practical exposure to hydraulic systems, enhancing their understanding beyond theoretical knowledge.  Component Awareness: Participants gained familiarity with the components and mechanisms of hydraulic cylinders and jacks, including seals, pistons, cylinders, and hydraulic fluid.  Measurement Skills: Engaging in measurements helped students develop skills in precision measurement techniques, critical for engineering applications.  Failure Analysis: Through failure analysis, students learned to identify and understand the root causes of failures in hydraulic systems, enabling them to develop preventive maintenance strategies. |
| **2** | **Case Studies as ISE Activities** | **TY** | Case studies provide students with an opportunity to apply theoretical knowledge to real-world scenarios. By analyzing and solving practical problems encountered in industry, students gain a deeper understanding of how engineering principles are implemented in various contexts.  Exposure to case studies prepares students for the challenges they will face in their future careers. It familiarizes them with common issues and practices in the industry, making them better equipped to tackle real-world engineering problems upon graduation. |
| **3** | **Google Classroom** | **TY,Btech** | Google Classroom provides a centralized platform where students can access course materials, assignments, announcements, and resources from anywhere with an internet connection. This organization helps students stay on track with their coursework and reduces the likelihood of missing important information. |

**Mr.Y.P.Ballal**