Department of Mechatronics Engineering

Course Name: Project Based Learning – II
Class: SE Mechatronics Engineering
Course Code: 217552 (2019 Course)

Course Objectives:

1. To emphasize project based learning activities that are long-term, interdisciplinary and student centric.

2. To inculcate independent and group learning by solving real world problems with the help of available resources.

3. To be able to develop applications based on the fundamentals of mechanical engineering by possibly applying previously acquired knowledge.

4. To get practical experience in all steps in the life cycle of the development of mechanical systems: specification, design, implementation, and testing.

5. To be able to select and utilize appropriate concepts of mechanical engineering to design and analyze selected mechanical system.

Course Outcomes:

On completion of the course, learner will be able to

CO1. IDENTIFY the real-world problem (possibly of interdisciplinary nature) through a rigorous literature survey and formulate / set relevant aims and objectives.

CO2. ANALYZE the results and arrive at valid conclusions.

CO3. PROPOSE a suitable solution based on the fundamentals of mechanical engineering by possibly integration of previously acquired knowledge.

CO4. CONTRIBUTE to society through proposed solutions by strictly following professional ethics and safety measures.

CO5. USE of technology in proposed work and demonstrate learning in oral and written form.

CO6. DEVELOP ability to work as an individual and as a team member.