Program : **Diploma in Engineering and Technology / Management**	
Course Code : **6009**	Course Title: **Major Project**
Semester : **5 & 6**	Credits: **4**
Course Category: **Major Project**	
Periods/Week : **3 (L: 0 T: 0 P:3) – Sem 5** **: 6 (L: 0 T: 0 P:6) – Sem 6**	Periods/Semester: **45 (Sem 5)** **: 90 (Sem 6)**

Course Objectives:

- To actualize talent, innovation, and skills of students
- To develop solutions/ and products of social significance applying technology.
- To promote entrepreneurial thinking.

Course Prerequisites:

Topic	Course code	Course name	Semester
Fabrication skills		Engineering Workshop	1, 2
Basics of relevant discipline		Basic Engineering courses.	2, 3
		Fundamentals of Electrical & Electronics	2
Environment impact of technology		Environmental Science	2
Project Management Techniques		Industrial Management and Safety	5

Course Outcomes:

On completion of the course, the student will be able to:

COn	Description	Duration (Hours)	Cognitive level
CO1	Apply technical knowledge in developing engineering products to simplify day to day conveniences.	3 hours/week for Semester Five	Applying
CO2	Demonstrate capability of self-education and clearly understand the value of achieving perfection in project implementation & completion.		Applying

CO3	Demonstrate the importance of teamwork and a multi-disciplinary approach.	6 hours/week for Semester Six	Analyzing
CO4	Demonstrate professionalism with ethics; present effective communication skills and relate engineering issues to broader societal context.		Analyzing
CO5	Develop technical documentation and user manual of engineering products.		Applying
CO6	Identify and analyze problems of the society and arrive at appropriate solutions.		Analyzing

CO – PO Mapping

Course Outcomes	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7
CO1	3		3				
CO2					3		3
CO3						3	
CO4					3		
CO5				3		3	
CO6	3	3	3		3		

3 – Strongly mapped, 2 – Moderately mapped, 1 – Weakly mapped

Course Outline

The Major Project course shall include a problem statement, market study, finalizing the project, Project work implementation and preparation of Project report.

A problem statement of the problem/product/technology shall be prepared. The proposed project shall be identified for functionality, cost, safety etc..They shall perform the market study of the proposed project. Once the project idea is approved by the panel constituted by the HOD, the project work implementation shall be scheduled. Project report shall be prepared, using suitable documentation tools such as LaTex.