

The Maharaja Sayajirao University of Baroda Polytechnic Diploma in Electronics & Communication Engg. (HPP)			ACADEMIC YEAR 2023-24		
Year	III	PROJECT(ELE3630L)	Lab Hrs per week	4	
Semester	II		Max marks	100	
Pre-Requisite: Basic Electronics, electronic workshop					
CO1	Explain the process of identifying project ideas, selecting suitable topics, and defining project objectives in the field of electronics and communication.				
CO2	Construct electronic circuits by tracing schematics, designing PCBs, assembling components, and performing soldering operations.				
CO3	Test fabricated circuits using appropriate procedures to verify functionality, troubleshoot faults, and improve performance.				
CO4	Document project work through structured report writing that includes circuit understanding, PCB layout, assembly steps, and testing results.				
CO5	Present project outcomes effectively through seminars demonstrating working principles, design process, and implementation results.				
COURSE CONTENT/SYLLABUS					
Unit	Unit Name		Hrs	Weightage	CO
1	The project should be based on original ideas, novel gadgets or circuits related to the field of Electronics and Communication Engineering. Depending on the complexity of the project, the project work may be carried out individually or in groups of not more than 3 (Three) students.		20	40	CO1, CO2, CO3
2	Steps to carry out the project work - 1. Selection of Project 2. Understanding and tracing of the Circuit 3. PCB Design and PCB making 4. Testing and installation of components 7. Soldering & Assembling work 8. Testing and troubleshooting of circuit 9. Writing Project Report 10. Seminar Related to the project work		36	60	CO3, CO4, CO5
			56	100	