

GANPAT UNIVERSITY									
FACULTY OF ENGINEERING AND TECHNOLOGY (DIPLOMA PROGRAMMES)									
Programme		Diploma Engineering			Branch/Spec.		ElectricalEngineering		
Semester		V			Version		1.0.0.0		
Effective from Academic Year			2020-21		Effective for the batch Admitted in			July2018	
Subject code		1EE2506	Subject Name		Project-I				
Teaching scheme					Examination scheme (Marks)				
(Per week)	Lecture(DT)		Practical(Lab.)		Total		CE	SEE	Total
	L	TU	P	TW					
Credit	0	0	2	0	2	Theory	0	0	0
Hours	0	0	4	0	4	Practical	60	40	100

Course Learning Outcomes:
<ul style="list-style-type: none"> <li>• Create familiarity with the industry personnel &amp; industrial environment as well as processes.</li> <li>• Survey the related literature.</li> <li>• Define the problem and the objectives of the project.</li> <li>• Suggest various design alternatives and justification of the selection of the design methodology for the problem solution along with design specifications.</li> <li>• Modelling and analysis of the proposed solution.</li> <li>• Simulate, Design and debugging of the circuit.</li> <li>• Partial Implementation of the proposed solution.</li> <li>• Develop program logic of the proposed solution</li> <li>• Locate the problem and troubleshoot.</li> <li>• Work in team cohesively &amp; effectively</li> <li>• Prepare project report having organized documentation.</li> <li>• Prepare &amp; deliver presentation.</li> <li>• Enhance awareness for latest technologies and tools.</li> <li>• Visualize the roadmap of the further development.</li> </ul>

Theory syllabus				
UNIT	Unit Content	Unit Learning Outcomes	Marks	Hrs
Stage-I Shodhyatra*	1a. Information gathering through websites and media 1b. Identification of Industry/research organization 1c. Visiting Industry/research organization. 1d. Creating awareness about the industrial premises , personnel , processes and	1.1 Interact with the industry/research organization personnel. 1.2 Gather information and organise	6	8

	process 1e. Review of literature			
Stage– II Problem Definition & Submission	2a. Defining problem in consultation with institute guide & industry 2b. Preparing problem definition statement in the prescribed format of GTU and submit in soft and hard copy.	2.1 Define & explain Problem definition. 2.2 Prepare & submit problem definition	6	8
Stage– III Design Solution	3a. Block Diagram of project. 3b. Draw & Develop circuit diagram using circuit design softwares/tools. 3c. Development of algorithm and flowchart if applicable.	3.1 Conceive and draw General block diagram of solution. 3.2 Develop circuit diagram in detail. 3.3 Write algorithm and draw flowchart.	12	20
Stage – IV Hardware/softw are simulation and partial Implementati on	4a. PCB Layout preparation using software tools 4b. Circuit simulation. 4c. Partial implementation using Breadboard or General purpose PCB. 4d. Test and troubleshoot hardware if applicable.	4.1 Design PCB Layout 4.2 Simulate circuit 4.3 Assemble circuit 4.4 Test the Hardware circuit 4.5 Troubleshoot the hardware circuit.	8	16
Stage – V Documentation & Presentation	5a. Prepare project report as per GTU guideline. 5b. Prepare PPT and present as per schedule.	5.1 Prepare project report 5.2 Prepare PPT presentation. 5.3 Present project work.	8	8