GANPAT UNIVERSITY									
FACULTY OF ENGINEERING & TECHNOLOGY									
Programme	Diploma Engineering					Branch	Mechanical Engineering		
Semester	VI					Version	1.0.0.0		
Effective from Academic Year			2020-21			Effective for the batch Admitted in			July 2018
Subject code	1ME2608		Subject Name			PROJECT-II			
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

Pre-requisites:

Course Learning Outcomes:
The course content should be taught and implemented with an aim to develop different skills leading to the achievement of the following competencies and course learning outcomes: CO 1. To learn selection and procurement of required material and choose appropriate manufacturing processes and techniques to actually fabricate the planned parts and assembly manufacturing CO 2. To enhance team work by sharing innovative ideas compatible to recent needs and technological advancement. CO 3. To create responsibility towards ecofriendly environment CO 4. To develop ability of manufacturing qualitative product CO 5. To manufacture all the components of subassemblies and assemble the product as per design and make proper presentation with necessary modification in project report.

Course Content				
Name of UNIT	Unit Content	Unit Learning Outcomes	Marks	Hrs
UNIT – 1 (Introduction)	1.1 Evaluate the project of earlier semester and select proper material 1.2 In view of processes to be carried out, modify the drawings	1a. To know properties of different materials and choose write one	10	8
UNIT – 2 (Work distribution)	2.1 Preparation of final details and assembly drawings 2.2 Preparation of bill of material 2.3 Selection of appropriate manufacturing process and check availability of materials 2.4 Purchase of materials, consumables and standard part required. 2.5 Manufacturing as per Process planning	2a. Practice of different CAD software 2b. To know specification of machine tools and equipment to be used	30	36
UNIT – 3 (Documentation)	3.1 Make a sequence of necessary documents as per format provided. 3.2 Testing of parts and flow chart 3.3 Costing 3.4 Further expansion	3a. Record keeping and sequential filing of required documents	10	8

UNIT – 4 (Project report and Presentation)	4.1 Preparation of project report 4.2 Presentation	4a. Practice word, excel, ppt formats efficiently	10	8
		Total	60	60

List of Instruments / Equipment / Trainer Board			
1	Manufacturing equipment and machine tools		
2	Testing equipment		
Link of Text Books			
No	Title of Books	Authors	Publication
1			
List of References			
No	Title of References		
1	Periodicals and Journals		
2	Industrial visit according to the Production facilities		
3	Design data book, hand books		
Link of Learning Web Resource			
1			

PO & CO Mapping							
Sr. No.	**Name of PO**	**Description**	Co1	Co2	Co3	Co4	Co5
1	PO 1	Acquire fundamental knowledge of mathematics, science, and mechanical engineering.	Slight	None	Slight	Moderate	Slight
2	PO 2	Design and conduct experiments, as well as analyze and interpret data.	Moderate	Slight	None	Moderate	Moderate
3	PO 3	Use the techniques, skills, and modern engineering tools necessary for engineering practice	Substantial	Substantial	Slight	Substantial	Substantial
4	PO 4	Function in multi-disciplinary teams and identify, formulate, and solve engineering problems.	Slight	Substantial	None	Slight	Slight
5	PO 5	Clear understanding of his duties and responsibilities as a Mechanical engineer.	None	Substantial	Slight	Slight	Moderate
6	PO 6	Develop effective communication skill and provide leadership for professional development.	None	Substantial	None	None	Slight
7	PO 7	Engage in life-long learning in mechanical engineering field and comprehend issues related to environment and sustainable development.	Slight	Moderate	Substantial	Moderate	None
8	PO 8	Graduate will demonstrate knowledge of professional and ethical responsibilities.	Slight	Moderate	None	Slight	None
9	PO 9	Incorporate economics and business practice including project and risk management.	Moderate	Slight	None	Slight	Moderate
10	PO 10	Graduate are able to share their knowledge to the industries as well as society.	Moderate	Substantial	Slight	Substantial	Moderate
11	PO 11	Graduated will be able to apply their skill and knowledge for the sustainable development of nation.	Slight	Moderate	Substantial	Moderate	Substantial
12	PO 12	Graduated are able to learn to work with the team and also with the inter discipliners.	Slight	Substantial	None	Moderate	Moderate