

GANPAT UNIVERSITY																				
FACULTY OF ENGINEERING AND TECHNOLOGY(DIPLOMA PROGRAMMES)																				
TEACHING AND EXAMINATION SCHEME																				
Programme	Diploma Engineering					Branch/Spec.	MECHATRONICS													
Semester	I																			
Effective from Academic Year		2018-19		Effective for the batch Admitted in										Jun-18						
Subject Code	Subject Name	Teaching scheme												Examination scheme (Marks)						
		Credit						Hours (per week)						Theory			Practical			
		Lecture(DT)			Practical(Lab.)			Lecture(DT)			Practical(Lab.)			CE	SEE	Total	CE	SEE	Total	
		L	TU	Total	P	TW	Total	L	TU	Total	P	TW	Total							
1BS121	MATHEMATICS-I	3	1	4	0	0	0	3	1	4	0	0	0	40	60	100	0	0	0	
1HS121	ENGLISH	4	0	4	0	0	0	4	0	4	0	0	0	40	60	100	0	0	0	
1BS123	PHYSICS	3	0	3	1	0	1	3	0	3	2	0	2	40	60	100	30	20	50	
1ES114	ENGINEERING DRAWING	2	0	2	2	0	2	2	0	2	4	0	4	40	60	100	60	40	100	
1ES116	MECHATRONICS WORKSHOP	0	0	0	2	0	2	0	0	0	4	0	4	0	0	0	60	40	100	
1ES115	MECHANICAL WORKSHOP	0	0	0	2	0	2	0	0	0	4	0	4	0	0	0	60	40	100	
<b>Total</b>		12	1	13	7	0	7	12	1	13	14	0	14	160	240	400	210	140	350	

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Semester	II																			
Effective from Academic Year		2018-19		Effective for the batch Admitted in										Jun-18						
Subject Code	Subject Name	Teaching scheme												Examination scheme (Marks)						
		Credit						Hours (per week)						Theory			Practical			
		Lecture(DT)			Practical(Lab.)			Lecture(DT)			Practical(Lab.)			CE	SEE	Total	CE	SEE	Total	
		L	TU	Total	P	TW	Total	L	TU	Total	P	TW	Total							
1BS221	MATHEMATICS-II	4	0	4	0	0	0	4	0	4	0	0	0	40	60	100	0	0	0	
1HS221	COMMUNICATION SKILLS	0	0	0	1	0	1	0	0	0	2	0	2	0	0	0	30	20	50	
1ES101	ENVIRONMENTAL STUDIES AND DISASTER	2	0	2	0	0	0	2	0	2	0	0	0	40	60	100	0	0	0	
1ES209	FUNDAMENTAL OF ELECTRONICS ENGINEERING	3	0	3	1	0	1	3	0	3	2	0	2	40	60	100	30	20	50	
1ES202	ENGINEERING MECHANICS	3	0	3	1	0	1	3	0	3	2	0	2	40	60	100	30	20	50	
1ES207	MECHANICAL DRAWING	3	0	3	3	0	3	3	0	3	6	0	6	40	60	100	60	40	100	
	CEU																			
<b>Total</b>		15	0	15	6	0	6	15	0	15	12	0	12	200	300	500	150	100	250	

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Semester	III																			
Effective from Academic Year			2018-19		Effective for the batch Admitted in									Jun-18						
Subject Code	Subject Name	Teaching scheme												Examination scheme (Marks)						
		Credit						Hours (per week)						Theory			Practical			
		Lecture(DT)			Practical(Lab.)			Lecture(DT)			Practical(Lab.)			CE	SEE	Total	CE	SEE	Total	
		L	TU	Total	P	TW	Total	L	TU	Total	P	TW	Total							
1ME2301	METAL CASTING, FORMING & JOINING PROCESSES	3	0	3	2	0	2	3	0	3	4	0	4	40	60	100	60	40	100	
1MC2301	PRINCIPLES OF MATERIAL SCIENCE & METALLURGY	3	0	3	1	0	1	3	0	3	2	0	2	40	60	100	30	20	50	
1MC2302	ANALOG & DIGITAL CIRCUITS	3	0	3	1	0	1	3	0	3	2	0	2	40	60	100	30	20	50	
1ME2304	STRENGTH OF MATERAILS	3	0	3	1	0	1	3	0	3	2	0	2	40	60	100	30	20	50	
1ME2305	PLANT MAINTENANCE AND SAFETY	2	0	2	1	0	1	2	0	2	2	0	2	40	60	100	30	20	50	
1ME2306	DRAFTING APPLICATION	0	0	0	2	0	2	0	0	0	4	0	4	0	0	0	60	40	100	
<b>Total</b>		14	0	14	8	0	8	14	0	14	16	0	16	200	300	500	240	160	400	

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Semester	IV																			
Effective from Academic Year			2018-19		Effective for the batch Admitted in									Jun-18						
Subject Code	Subject Name	Teaching scheme												Examination scheme (Marks)						
		Credit						Hours (per week)						Theory			Practical			
		Lecture(DT)			Practical(Lab.)			Lecture(DT)			Practical(Lab.)			CE	SEE	Total	CE	SEE	Total	
		L	TU	Total	P	TW	Total	L	TU	Total	P	TW	Total							
1MC2401	SENSORS AND CONTROL	3	0	3	1	0	1	3	0	3	2	0	2	40	60	100	30	20	100	
1ME2401	MACHINING PROCESSES	3	0	3	2	0	2	3	0	3	4	0	4	40	60	100	60	40	100	
1ME2403	THEORY OF MACHINES AND MECHANISMS	3	0	3	2	0	2	3	0	3	4	0	4	40	60	100	60	40	100	
1ME2405	METROLOGY AND INSTRUMENTATION	3	0	3	1	0	1	3	0	3	2	0	2	40	60	100	30	20	50	
1MC2402	FUNDAMENTALS OF THERMAL AND FLUID POWER	3	0	3	1	0	1	3	0	3	2	0	2	40	60	100	30	20	50	
<b>Total</b>		15	0	15	7	0	7	15	0	15	14	0	14	200	300	500	210	140	400	

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Semester	V																		
Effective from Academic Year				2020-21	Effective for the batch Admitted in								Jun-18						
Subject Code	Subject Name	Teaching scheme											Examination scheme (Marks)						
		Credit						Hours (per week)					Theory			Practical			
		Lecture(DT)			Practical(Lab.)			Lecture(DT)			Practical(Lab.)		CE	SEE	Total	CE	SEE	Total	
		L	TU	Total	P	TW	Total	L	TU	Total	P	TW							Total
1MC2501	HYDRAULIC AND PNEUMATIC DEVICES	3	0	3	1	0	1	3	0	3	2	0	2	40	60	100	30	20	50
1MC2502	PROGRAMMABLE LOGIC CONTROLLER	3	0	3	2	0	2	3	0	3	4	0	4	40	60	100	60	40	100
1MC2503	PROGRAMMING TOOLS	0	0	0	2	0	2	0	0	0	4	0	4	0	0	0	60	40	100
1ME2501	MACHINE DESIGN ELEMENTS	3	0	3	2	0	2	3	0	3	4	0	4	40	60	100	60	40	100
1ME2502	MACHINE TOOL TECHNOLOGY	3	0	3	2	0	2	3	0	3	4	0	4	40	60	100	60	40	100
<b>Total</b>		12	0	12	9	0	9	12	0	12	18	0	18	160	240	400	270	180	450

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Semester	VI																		
Effective from Academic Year				2020-21	Effective for the batch Admitted in								Jun-18						
Subject Code	Subject Name	Teaching scheme											Examination scheme (Marks)						
		Credit						Hours (per week)					Theory			Practical			
		Lecture(DT)			Practical(Lab.)			Lecture(DT)			Practical(Lab.)		CE	SEE	Total	CE	SEE	Total	
		L	TU	Total	P	TW	Total	L	TU	Total	P	TW							Total
1MC2601	MICROCONTROLLER	4	0	4	1	0	1	4	0	4	2	0	2	40	60	100	30	20	50
1MC2602	ROBOTICS	3	0	3	1	0	1	3	0	3	2	0	2	40	60	100	30	20	50
1MC2603	CNC MACHINE	3	0	3	1	0	1	3	0	3	2	0	2	40	60	100	30	20	50
1MC2604	COMPUTER AIDED GRAPHICS	0	0	0	2	0	2	0	0	0	4	0	4	0	0	0	60	40	100
	ELECTIVE - 1	3	0	3	1	0	1	3	0	3	2	0	2	40	60	100	30	20	50
1MC2608	PROJECT	0	0	0	2	0	2	0	0	0	4	0	4	0	0	0	60	40	100
<b>Total</b>		13	0	13	8	0	8	13	0	13	16	0	16	160	240	400	240	160	400

ELECTIVE SUBJECT																			
Subject Code	Subject Name	Teaching scheme											Examination scheme (Marks)						
		Credit						Hours (per week)					Theory			Practical			
		Lecture(DT)			Practical(Lab.)			Lecture(DT)			Practical(Lab.)		CE	SEE	Total	CE	SEE	Total	
		L	TU	Total	P	TW	Total	L	TU	Total	P	TW							Total
1MC2605	CIM	3	0	3	1	0	1	3	0	3	2	0	2	40	60	100	30	20	50
1MC2606	AUTOTRONICS	3	0	3	1	0	1	3	0	3	2	0	2	40	60	100	30	20	50
1MC2607	MACHINE LEARNING	3	0	3	1	0	1	3	0	3	2	0	2	40	60	100	30	20	50
1ME2604	ADDITIVE MANUFACTURING	3	0	3	1	0	1	3	0	3	2	0	2	40	60	100	30	20	50