

SMT. S.R.PATEL ENGINEERING COLLEGE, UNJHA
MECHANICAL ENGINEERING DEPARTMENT
TEACHING SCHEME MECHANICAL ENGINEERING

B.E. MECHANICAL I & II Semester

Course Code	Course Title	Total number of contact hours				Credits
		Theory	Tutorial	Practical	Total Hours	
2110002	Communication Skills	2	2	0	4	4
2110003	Computer Programming and Utilization	3	2	1	6	6
2110004	Elements of Civil Engineering	4	2	0	6	6
2110005	Elements of Electrical Engineering	4	2	0	6	6
2110006	Elements of Mechanical Engineering	4	2	0	6	6
2110007	Environmental Studies	3	0	0	3	3
2110011	Physics	3	2	0	5	5
2110012	Workshop	0	4	0	4	4
2110013	Engineering Graphics	2	4	0	6	6
2110014	Calculus	3	0	2	5	5
2110015	Vector Calculus and Linear Algebra	3	0	2	5	5
2990001	Contributor Personality Development	4	0	0	4	4
TOTAL		35	20	5	60	60

B. E. Mechanical III Semester

Course Code	Course Title	Total number of contact hours				Credits
		Theory	Tutorial	Practical	Total Hours	
2130002	Advance Engineering Mathematics	3	2	0	5	5
2130003	Mechanics of Solids	4	0	2	6	6
2131903	Manufacturing Process-1	3	0	2	5	5
2131904	Material Science and Metallurgy	3	0	2	5	5
2131905	Engineering Thermodynamics	4	1	0	5	5
2131906	Kinematics of Machines	3	1	0	4	4
2130005	Design Engineering - I A	0	0	3	3	3
TOTAL		20	4	9	33	33
BEYOND ACADEMICS						
3ME01	Software	0	0	2	2	-
3ME02	Seminar	0	0	1	1	-
3ME03	CDC Activities	0	0	1	1	-
3ME04	GATE Classes	4	0	0	4	-

B.E. Mechanical IV Semester

Course Code	Course Title	Total number of contact hours				Credits
		Theory	Tutorial	Practical	Total Hours	
2140003	Engineering Economics and Management	3	0	0	3	3
2141901	Mechanical Measurement & Metrology	3	0	2	5	5
2141905	Complex Variables and Numerical Methods	3	2	0	5	5
2141906	Fluid Mechanics	4	0	2	6	6
2141907	Machine Design & Industrial Drafting	4	0	2	6	6
2141908	Manufacturing Processes -II	3	0	2	5	5
2140002	Design Engineering - I B	0	0	3	3	3
TOTAL		20	2	11	33	33
BEYOND ACADEMICS						
4ME01	Software	0	0	2	2	-
4ME02	Seminar	0	0	1	1	-
4ME03	CDC Activities	0	0	1	1	-
4ME04	GATE Classes	4	0	0	4	-

B.E. Mechanical V Semester

Course Code	Course Title	Total number of contact hours				Credits
		Theory	Tutorial	Practical	Total Hours	
2151902	Theory of Machines	3	0	2	5	5

2151903	Fluid Power Engineering	3	0	2	5	5
2151907	Design of Machine Elements	3	0	2	5	5
2151908	Control Engineering	3	0	2	5	5
2151909	Heat Transfer	3	0	2	5	5
2150001	Design Engineering - II A	0	0	3	3	3
2150002	Institute Elective - Cyber Security	0	1	2	3	3
2150003	Institute Elective - Diaster Management	3	0	0	3	3
TOTAL		18	1	15	34	34
BEYOND ACADEMICS						
5ME01	Software	0	0	2	2	-
5ME02	Seminar	0	0	1	1	-
5ME03	Training and placement activities	2	0	0	2	-
5ME04	GATE Classes	4	0	0	4	-

B.E. Mechanical VI Semester

Course Code	Course Title	Total number of contact hours				Credits
		Theory	Tutorial	Practical	Total Hours	
2161901	Dynamics of Machinery	3	0	2	5	5
2161902	Internal Combustion Engines	3	0	2	5	5
2161903	Computer Aided Design	3	0	2	5	5
2161907	Industrial Engineering	3	0	2	5	5

2161908	Refrigeration and Airconditioning	3	0	2	5	5
2161909	Production Technology	3	0	2	5	5
2160001	Design Engineering - II B	0	0	3		
TOTAL		18	1	15	34	34
BEYOND ACADEMICS						
6ME01	Software	0	0	2	2	-
6ME02	Seminar	0	0	1	1	-
6ME03	Training and placement activities	2	0	0	2	-
6ME04	GATE Classes	4	0	0	4	-

B.E. Mechanical VII Semester

Course Code	Course Title	Total number of contact hours				Credits
		Theory	Tutorial	Practical	Total Hours	
2170001	Project - I	0	0	4	4	4
2171901	Operation Research	3	2	0	5	5
2171903	Computer Aided Manufacturing	3	0	2	5	5
2171909	Machine Design	3	2	0	5	5
2171910	Power Plant Engineering	4	0	2	6	6
2171912	Oil Hydraulics and Pneumatic (Dept. Elective-I)	3	0	2	5	5
TOTAL		17	04	10	31	31
BEYOND ACADEMICS						

7ME01	Revision	0	0	2	2	-
7ME02	Training and placement activities	1	1	0	2	-
7ME03	GATE Classes	4	0	0	4	-

B.E. Mechanical VIII Semester

Course Code	Course Title	Total number of contact hours				Credits
		Theory	Tutorial	Practical	Total Hours	
2181909	Project II	0	0	16	16	16
2181910	Renewable Energy Engineering	4	0	0	4	4
2181915	Automobile Engineering (Dept. Elective-II)	3	0	2	5	5
2181923	Entrepreneurship (Dept. Elective-II)	3	2	0	5	5
TOTAL		10	2	16	28	28
BEYOND ACADEMICS						
8ME01	Revision	0	0	2	2	-
8ME02	Training and placement activities	1	1	0	2	-
8ME03	GATE Classes	4	0	0	4	-