



SANDIP FOUNDATION'S
SANDIP INSTITUTE OF TECHNOLOGY AND RESEARCH CENTRE
 MAHIRAVANI, TRIMBAK ROAD, TAL & DIST: NASHIK-422213, MAHARASHTRA, INDIA
B. Tech Mechanical Engineering

Semester – III

Sr. No.	Course Type	Course Code	Course Name	Teaching Scheme (Hrs./Week)				Examination Scheme				Total Marks
				L	T	P	C	Formative Assessment CIA		Summative Assessment ESE		
								Theory	Lab	Theory	Lab	
1	PC	2312201	Applied Thermodynamics	3	--	--	3	50	--	50	--	100
2	PC	2312202	Strength of Materials	3	--	--	3	50	--	50	--	100
3	PC	2312203	Manufacturing Processes	2	--	--	2	25	--	50	--	75
4	PC	2312204	Strength of Materials Lab	--	--	2	1	--	25	--	25 ^a	50
5	PC	2312205	Applied Thermodynamics lab	--	--	2	1	--	--	--	25 ^a	25
6	OE	2312206	Open Elective-I	3	--	--	3	50	--	50	--	100
7	IC (HSSM)	2300201	Principles of Managements	2	--	--	2	25	--	50	--	75
8	IC (VEC)	2300202	Industrial Psychology	2	--	--	2	25	--	50	--	75
9	IC (MD)	2300203	Multidisciplinary –Design Thinking	1	--	2	2	--	25	25	25 ^a	75
10	IC (CEP)	2300204	Community Engagement Project	--	--	4	2	--	25	--	25 ^a	50
11	SDC	2312701	IC Engine Maintenance	--	--	2	--	--	--	--	--	--
12	EEC	2312801	Welding Technology	--	--	--	--	--	--	--	--	--
TOTAL				16	00	12	21	225	75	325	100	725
Open Elective I												
7	OE	2312206A	Sustainable & Green Energy	3	--	--	3	50	--	50	--	100
7	OE	2312206B	Production Processes	3	--	--	3	50	--	50	--	100
Value Added Course												
13	VAC	VAC121	Solid Modeling & Drafting	-	--	2	1	--	25	--	--	25



SANDIP FOUNDATION'S
SANDIP INSTITUTE OF TECHNOLOGY AND RESEARCH CENTRE
 MAHIRAVANI, TRIMBAK ROAD, TAL & DIST: NASHIK-422213, MAHARASHTRA, INDIA
B. Tech Mechanical Engineering

Semester – IV

Sr. No.	Course Type	Course Code	Course Name	Teaching Scheme (Hrs./Week)				Examination Scheme				Total Marks
				L	T	P	C	Formative Assessment CIA		Summative Assessment ESE		
								Theory	Lab	Theory	Lab	
1	PC	2312207	Kinematics of Machinery	3	--	--	3	50	--	50	--	100
2	PC	2312208	Fluid Mechanics	3	--	--	3	50	--	50	--	100
3	PC	2312209	Engineering Materials and Metallurgy	2	--	--	2	25	--	50	--	75
4	PC (MD)	2312210	Mechatronics	2	--	--	2	25	--	50	--	75
5	PC	2312211	Kinematics of Machinery Lab	--	--	2	1	--	--	--	25 ^a	25
6	PC	2312212	Fluid Mechanics Lab	--	--	2	1	--	--	--	25 ^a	25
7	OE	2312213	Open Elective-II	2			2	25	--	50	--	75
8	IE (VEC)	2300205	First Level Course in Foreign Language	2	--	--	2	25	--	50	--	75
9	IC (HSSM)	2300206	Industrial Economics	2	--	--	2	25	--	50	--	75
10	SDC (VSEC)	2312702	Refrigeration System Maintenance	--	--	2	1	--	25	--	--	25
11	EEC	2312802	Preventive Maintenance in Bearings	--	---	--	--	---	--	--	--	--
12	IC (AEC)	2300207	Industrial Work Study	2	--	--	2	25	--	50	--	75
TOTAL				18	00	06	21	250	25	400	50	725
First Level Course in Foreign Language (Any One)												
8	IE (VEC)	2300205A	German Language	2	--	--	2	25	--	50	--	75
8	IE (VEC)	2300205B	French Language	2	--	--	2	25	--	50	--	75
Open Elective II												
7	OE	2312213A	Robotics	2	--	--	2	25	--	50	--	75
7	OE	2312213B	Automation in Manufacturing	2	--	--	2	25	--	50	--	75
Value Added Course												
13	VAC (VSEC)	VAC122	Geometric Dimensioning & Tolerancing (GD&T)	--	--	2	1	--	25	--	--	25
Course Work (for Exit Criterion to UG Diploma)												
Minor Project				--	--	--	2	--	50	--	--	50
Internship (2 Weeks)				--	--	--	2	--	50	--	--	50