

SHRI G. S. INSTITUTE OF TECHNOLOGY & SCIENCE, INDORE

II B.TECH.(4YDC) MECHANICAL ENGINEERING

Semester: III

S.No.	Subject Category	Subject Code	Subject	Hours per Week*			Th. Credit	Pr. Credit	Maximum Marks				Total
				L	T	P			Th.	CW	SW	Pr.	
1	PCC	ME26011	Fluid Mechanics	3	-	2	3	1	70	30	40	60	200
2	PCC	ME26002	Strength of Materials	3	-	2	3	1	70	30	40	60	200
3	BSC	MA26004	Mathematics -III	3	1	-	4	-	70	30	-	-	100
4	PCC	ME26008	Material Science	3	-	2	3	1	70	30	40	60	200
5	PCC	ME26005	Engineering Thermodynamics	3	-	2	3	1	70	30	40	60	200
6	HSMC	HU26481	Values, Humanity and Professional Ethics	-	2	-	2	-	-	100	-	-	100
7	MC	HUM2001	Constitution of India*	2	-	-	-	-	-	50	-	-	50
Total				17	3	8	18	4	350	300	160	240	1050

Semester: IV

S.No.	Subject Category	Subject Code	Subject	Hours per Week*			Th. Credit	Pr. Credit	Maximum Marks				Total
				L	T	P			Th.	CW	SW	Pr.	
1	BSC	MA26556	Mathematics-IV	3	1	-	4	-	70	30	-	-	100
2	PCC	ME26551	Machine Design - I	3	-	2	3	1	70	30	40	60	200
3	PCC	ME26562	Kinematics of Machine	3	-	2	3	1	70	30	40	60	200
4	ESC	EC26563	Basic Electronics Engineering	3	-	2	3	1	70	30	40	60	200
5	PCC	IP26553	Manufacturing Processes - I	3	-	2	3	1	70	30	40	60	200
6	HSMC	HU26507	Economics for Engineers	3	-	-	3	-	70	30	-	-	100
7	PCC	ME26881	Machine Drawing & Computer Graphics	-	-	2	-	1	-	-	40	60	100
Total				18	1	10	19	5	420	180	200	300	1100

Internship of 4-6 weeks between semester IV & semester V.

* Non Credit Mandatory Subject.

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III B.E.(4YDC) MECHANICAL ENGINEERING

SEMESTER - V

S.No.	Subject Category	Subject Code	Subject	Hours per Week*			Th. Credit	Pr. Credit	Maximum Marks				
				L	T	P			Th.	CW	SW	Pr.	Total
1	PCC	ME36011	Dynamics of Machines	3	1	2	4	1	70	30	40	60	200
2	PCC	ME36003	Measurement & Automatic Control	3	-	2	3	1	70	30	40	60	200
3	PCC	ME36006	Heat & Mass Transfer	3	-	2	3	1	70	30	40	60	200
4	PCC	ME36007	Steam and Gas Power System	3	-	-	3	-	70	30	-	-	100
5	PCC	IP36062	Manufacturing Processes-II	3	-	2	3	1	70	30	40	60	200
Total				15	1	8	16	4	350	150	160	240	900

SEMESTER - VI

S.No.	Subject Category	Subject Code	Subject	Hours per Week*			Th. Credit	Pr. Credit	Maximum Marks				
				L	T	P			Th.	CW	SW	Pr.	Total
1	PCC	ME36501	Refrigration and Airconditioning	3	-	2	3	1	70	30	40	60	200
2	PCC	ME36503	Machine Design - II	3	-	4	3	2	70	30	40	60	200
3	PCC	ME36506	Fluid Machinery	3	-	2	3	1	70	30	40	60	200
4	PEC	ME36509	Internal Combustion Engines	3	-	2	3	1	70	30	40	60	200
5	HSMC	IP36504	Industrial Engineering and Production Management	3	-	-	3	-	70	30	-	-	100
6	PROJ	ME36581	Industrial Training/ Minor Project	-	-	4	-	2	-	-	100	-	100
Total				15	0	14	15	7	350	150	260	240	1000

Internship of 4-6 weeks between semester VI & semester VII.

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SEMESTER - VII

S.No.	Subject Category	Subject Code	Subject	Hours per Week*			Th. Credit	Pr. Credit	Maximum Marks						
				L	T	P			Th.	CW	SW	Pr.	Total		
1	PEC	ME46018	Automobile Engineering	3	-	2	3	1	70	30	40	60	200		
2	PEC	ME46051	Vibration and Noise Control	3	-	2	3	1	70	30	40	60	200		
3	PEC	ME46020	Computer Aided Design	3	-	2	3	1	70	30	40	60	200		
4	PEC		Elective-I	3	-	-	3	-	70	30	-	-	100		
5	PEC		Elective-II	3	-	-	3	-	70	30	-	-	100		
	PROJ	ME46481	Industrial Training	-	-	-	-	2	-	-	100	-	100		
7	PROJ	ME46498	Major Project Phase-I (AB group)	-	-	6	-	3	-	-	40	60	100		
8	PROJ	ME46998	Major Project Phase-II (BA Group)	-	-	8	-	4	-	-	60	90	150		
Total				For AB Group			15	0	12	15	8	350	150	260	1000
				For BA Group			15	0	14	15	9	350	150	280	270

SEMESTER - VIII

S.No.	Subject Category	Subject Code	Subject	Hours per Week*			Th. Credit	Pr. Credit	Maximum Marks						
				L	T	P			Th.	CW	SW	Pr.	Total		
1	PEC		Elective III	3	-	-	3	-	70	30	-	-	100		
2	PEC		Elective IV	3	-	-	3	-	70	30	-	-	100		
3	PROJ	ME46882	Industrial Training/Internship	-	-	-	-	4	-	-	100	-	100		
4	PROJ	ME46998	Major Project Phase- II (AB Group)	-	-	8	-	4	-	-	60	90	150		
5	PROJ	ME46498	Major Project Phase-I (BA group)	-	-	6	-	3	-	-	40	60	100		
Total				For AB Group			6	0	8	6	8	140	60	160	450
				For BA Group			6	0	6	6	7	140	60	140	60

SHRI G S INSTITUTE OF TECHNOLOGY & SCIENCE, INDORE
IV B.Tech.(4YDC) MECHANICAL ENGINEERING

List of Electives

Elective-I			SEMESTER - VII
S.No.	Subject Category	Subject Code	Subject
1	✓	ME46218	Mechatronics and Automation
2	✓	ME46219	Advanced Machine Design
3			Industrial Tribology and Maintenance
4			Design of Air Conditioning Equipment
5			Artificial Intelligence

Elective-II			SEMESTER - VII
S.No.	Subject Category	Subject Code	Subject
1	✓	IP46316	Operational Research
2	✓	ME46315	Hydraulic, Pneumatic & Fluidic Control
3			Bio - Mechanics
4			Manufacturing Automation & CAM
5	✓		Data Science
6			Power Plant and Energy Management

ME46317

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List of Electives

Elective-III			SEMESTER - VIII
S.No.	Subject Category	Subject Code	Subject
1	✓	ME46667	Composite Materials
2	✓		Renewable Energy Sources
3	✓	IP46669	Industrial Inspection & Quality Control
4			Finite Element Methods
5		ME	Robotics

ME46668

Elective-IV			SEMESTER - VIII
S.No.	Subject Category	Subject Code	Subject
1			Gas Dynamics & Fluid Flow
2	✓	ME46705	Engineering Optimization
3	✓	ME46704	Design of Thermal Systems
4			Computational Fluid Dynamics
			Viscous Fluid Flow
	✓	ME	3D Printing and Design

ME46705 NOT OPTED 18

ME46706