

## SHRI G. S. INSTITUTE OF TECHNOLOGY &amp; SCIENCE, INDORE

## II B.TECH.(4YDC) MECHANICAL ENGINEERING

## Semester: III

S.No.	Subject Category	Subject Code	Subject	Periods per Week*			Th. Credit	Pr. Credit	Maximum Marks				Total
				L	T	P			Th.	CW	SW	Pr.	
1	PCC	ME26011	Fluid Mechanics	4	-	2	3	1	70	30	40	60	200
2	PCC	ME26002	Strength of Materials	4	-	2	3	1	70	30	40	60	200
3	BSC	MA26004	Mathematics -III	4	1	-	4	-	70	30	-	-	100
4	PCC	ME26008	Material Science	4	-	2	3	1	70	30	40	60	200
5	PCC	ME26005	Engineering Thermodynamics	4	-	2	3	1	70	30	40	60	200
6	HSMC	HU26481	Values, Humanity and Professional Ethics	-	3	-	2	-	-	100	-	-	100
<b>Total</b>				20	4	8	18	4	350	250	160	240	1000

## Semester: IV

S.No.	Subject Category	Subject Code	Subject	Periods per Week*			Th. Credit	Pr. Credit	Maximum Marks				Total
				L	T	P			Th.	CW	SW	Pr.	
1	BSC	MA26556	Mathematics-IV	4	1	-	4	-	70	30	-	-	100
2	PCC	ME26551	Machine Design - I	4	-	2	3	1	70	30	40	60	200
3	PCC	ME26562	Kinematics of Machine	4	-	2	3	1	70	30	40	60	200
4	ESC	EC26563	Basic Electronics Engineering	4	-	2	3	1	70	30	40	60	200
5	PCC	IP26552	Manufacturing Processes -I	4	-	2	3	1	70	30	40	60	200
6	HSMC	HU26507	Economics for Engineers	4	-	-	3	-	70	30	-	-	100
7	PCC	ME26881	Machine Drawing & Computer Graphics	-	-	2	-	1	-	-	40	60	100
<b>Total</b>				24	1	10	19	5	420	180	200	300	1100

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

\* 1 Period = 50 Minutes

## SHRI G S INSTITUTE OF TECHNOLOGY &amp; SCIENCE, INDORE

## III B.E.(4YDC) MECHANICAL ENGINEERING

## SEMESTER - V

S.No.	Subject Category	Subject Code	Subject	Periods per Week*			Th. Credit	Pr. Credit	Maximum Marks				
				L	T	P			Th.	CW	SW	Pr.	Total
1	PCC	ME36011	Dynamics of Machines	4	1	2	4	1	70	30	40	60	200
2	PCC	ME36003	Measurement & Automatic Control	4	-	2	3	1	70	30	40	60	200
3	PCC	ME36006	Heat & Mass Transfer	4	-	2	3	1	70	30	40	60	200
4	PCC	ME36007	Steam and Gas Power System	4	-	-	3	-	70	30	-	-	100
5	PCC	IP36062	Manufacturing Processes-II	4	-	2	3	1	70	30	40	60	200
<b>Total</b>				20	1	8	16	4	350	150	160	240	900

## SEMESTER - VI

S.No.	Subject Category	Subject Code	Subject	Periods per Week*			Th. Credit	Pr. Credit	Maximum Marks				
				L	T	P			Th.	CW	SW	Pr.	Total
1	PCC	ME36501	Refrigeration and Airconditioning	4	-	2	3	1	70	30	40	60	200
2	PCC	ME36503	Machine Design - II	4	-	4	3	2	70	30	40	60	200
3	PCC	ME36506	Fluid Machinery	4	-	2	3	1	70	30	40	60	200
4	PEC	ME36509	Internal Combustion Engines	4	-	2	3	1	70	30	40	60	200
5	HSMC	IP36504	Industrial Engineering and Production Management	4	-	-	3	-	70	30	-	-	100
6	PROJ	ME36581	Industrial Training/ Minor Project	-	-	4	-	2	-	-	100	-	100
<b>Total</b>				20	0	14	15	7	350	150	260	240	1000

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

## SHRI G S INSTITUTE OF TECHNOLOGY &amp; SCIENCE, INDORE

## IV B.Tech.(4YDC) MECHANICAL ENGINEERING

## SEMESTER - VII

S.No.	Subject Category	Subject Code	Subject	Periods per Week*			Th. Credit	Pr. Credit	Maximum Marks				
				L	T	P			Th.	CW	SW	Pr.	Total
1	PEC	ME46018	Automobile Engineering	4	-	2	3	1	70	30	40	60	200
2	PEC	ME46051	Vibration and Noise Control	4	-	2	3	1	70	30	40	60	200
3	PEC	ME46020	Computer Aided Design	4	-	2	3	1	70	30	40	60	200
4	PEC		Elective-I	4	-	-	3	-	70	30	-	-	100
5	PEC		Elective-II	4	-	-	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		20	0	12	15	8	350	150	260	240	1000
		For BA Group		20	0	14	15	9	350	150	280	270	1050

## SEMESTER - VIII

S.No.	Subject Category	Subject Code	Subject	Periods per Week*			Th. Credit	Pr. Credit	Maximum Marks				
				L	T	P			Th.	CW	SW	Pr.	Total
1	PEC		Elective III	4	-	-	3	-	70	30	-	-	100
2	PEC		Elective IV	4	-	-	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		8	0	8	6	8	140	60	160	90	450
		For BA Group		8	0	6	6	7	140	60	140	60	400



**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

- ME46219

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

- IP46316

## SHRI G S INSTITUTE OF TECHNOLOGY &amp; SCIENCE, INDORE

## IV B.Tech.(4YDC) MECHANICAL ENGINEERING

## List of Electives

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

ME46667

ME46668

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

ME46704

ME46706

Viscous FLUID FLOW.