

II B.TECH.(4YDC) MECHANICAL ENGINEERING

Semester: III

146201

S. No.	Subject Category	Subject Code	Subject Name	Periods per Week			Credits		Max Marks				
				L	T	P	Th	Pr	Theory		Practical		Total
									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	0	3	0	2	-	0	100	-	-	100
Total				20	4	8	18	4	350	250	160	240	1000
Optional Subject(s)													
7		OC-I	Open Category-I (Audit Only)	-	-	-	-	-	-	-	-	-	-

Semester: IV

146202

S. No.	Subject Category	Subject Code	Subject Name	Periods per Week			Credits		Max Marks				
				L	T	P	Th	Pr	Theory		Practical		Total
									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
Total				24	1	10	19	5	420	180	200	300	1100
Optional Subject(s)													
7		OC-II	Open Category-II (Audit Only)	-	-	-	-	-	-	-	-	-	-

Internship of 4-5 weeks between semester IV & semester V.

III B.Tech.(4YDC) MECHANICAL ENGINEERING

146301

SEMESTER - V

S. No.	Sub. Code	Subject	Periods per Week			Th. Credit	Pr. Credit	Maximum Marks				
			L	T	P			Th.	CW	SW	Pr.	Total
1	ME36001	Dynamics of Machines	4	-	2	3	1	70	30	40	60	200
2	ME36002	Machine Design - I	4	-	4	3	2	70	30	40	60	200
3	ME36003	Measurement & Automatic Control	4	-	2	3	1	70	30	40	60	200
4	ME36006	Heat & Mass Transfer	4	-	2	3	1	70	30	40	60	200
5	ME36008	Steam and Gas Turbines	4	-	2	3	1	70	30	40	60	200
6	ME36451	Technical Visit			4		2			50		50
Total			20	0	16	15	8	350	150	250	300	1050
Optional Subject(s)												
7	OC-III	Open Category-III (Audit Only)	-	-	-	-	-	-	-	-		

SEMESTER - VI

S. No.	Sub. Code	Subject	Periods per Week			Th. Credit	Pr. Credit	Maximum Marks				
			L	T	P			Th.	CW	SW	Pr.	Total
1	ME36501	Refrigeration and Airconditioning	4	-	2	3	1	70	30	40	60	200
2	ME36502	Machine Design - II	4	-	4	3	2	70	30	40	60	200
3	ME36506	Fluid Machinery	4	-	2	3	1	70	30	40	60	200
4	ME36509	Internal Combustion Engines	4	-	2	3	1	70	30	40	60	200
5	IP36562	Manufacturing Processes-II	4	-	2	3	1	70	30	40	60	200
6	ME36592	Industrial Training	-	-	4	0	2	-	-	50	0	50
Total			20	0	16	15	8	350	150	250	300	1050
Optional Subject(s)												
7	OC-IV	Open Category-IV (Audit Only)	-	-	-	-	-	-	-	-		

146302

IV B.E.(4YDC) MECHANICAL ENGINEERING

SEMESTER - VII

S. No.	Sub. Code	Subject	Periods per Week			Th. Credit	Pr. Credit	Maximum Marks				
			L	T	P			Th.	CW	SW	Pr.	Total
1	ME46008	Automobile Engg.	4	1	2	4	1	70	30	40	60	200
2	ME46061	Vibration and Noise Control	4	1	2	4	1	70	30	40	60	200
3	ME46010	Computer Aided Design	4	1	2	4	1	70	30	40	60	200
4		Elective-I	4	1	0	4	0	70	30	0	0	100
5		Elective-II	4	1	0	4	0	70	30	0	0	100
7	ME46499	Major Project Phase-I (AB group)	-	-	6	-	3	0	0	60	90	150
8	ME46999	Major Project Phase-II (BA Group)	-	-	10	-	5	0	0	60	90	150
Total		For AB Group	20	5	12	20	6	350	150	180	270	950
		For BA Group	20	5	16	20	8	350	150	180	270	950

146401

SEMESTER - VIII

S. No.	Sub. Code	Subject	Periods per Week			Th. Credit	Pr. Credit	Maximum Marks				
			L	T	P			Th.	CW	SW	Pr.	Total
1		Elective III	4	1	0	4	0	70	30	0	0	100
2		Elective IV	4	1	0	4	0	70	30	0	0	100
3	ME46881	Industrial Training/Internship/Seminar*	-	-	-	-	8	-	-	100	-	100
4	ME46999	Major Project Phase- II (AB Group)	-	-	10	-	5	0	0	60	90	150
5	ME46499	Major Project Phase-I (BA group)	-	-	6	-	3	0	0	60	90	150
Total		For AB Group	8	2	10	8	13	140	60	160	90	450
		For BA Group	8	2	6	8	11	140	60	160	90	450

146402

IV B.E.(4YDC) MECHANICAL ENGINEERING

Elective-I		SEMESTER - VII	
S.No.	Sub. Code	Subject	
1	✓ ME46258	Mechatronics(ME4658)	
2		Computational Fluid Dynamics	
3	✓ ME46201	Industrial Tribology	
4		Industrial Engineering & Management	
5		Manufacturing Automation & CAM	

ME46204

ME46202

ME46203

Elective-II		SEMESTER - VII	
S.No.	Sub. Code	Subject	
1		Design of Air Conditioning Equipments	
2	✓ ME 46325	Hydraulic, Pneumatic & Fluidic Control	
3		Bio - Mechanics	
4	✓ ME46301	Design of Thermal System	
5			

ME46302

ME46303

IV B.E.(4YDC) MECHANICAL ENGINEERING

Elective-III		SEMESTER - VIII
S.No.	Sub. Code	Subject
1	✓ ME46677	Composite Materials(ME4677)
2		Renewable Energy Sources
3		Industrial Inspection & Quality Control(PE 4674)
4	✓ ME46678	Finite Element Methods(ME4678)

ME 46601

ME 46602

Elective-IV		SEMESTER - VIII
S.No.	Sub. Code	Subject
1	✓ ME46701	Gas Dynamics & Fluid Flow
2		Engineering Optimization(ME4628)
3		Maintenance Engineering
4	✓ ME46757	Power Plant and Energy Management(ME4657)

ME 46702

ME 46703