

Semester III

Catalog Course Code	Course Code	Course Title	Nature	Teaching Scheme			Examination Scheme Marks				Total Credits	Total Marks
				L	T	Lab	Practical		CA	ESE		
							CA	ESE				
T7380	070121301 ME	Applied Mathematics	ES	3	2	-	-	-	40	60	4	100
T7651	070121302 ME	Strength of Materials	ID	3	2	-	-	-	40	60	4	100
T7600	070121303 ME	Applied Thermodynamics	C	3	-	-	-	-	30	45	3	75
T7635	070121304 ME	Measurement and Metrology	C	3	-	-	-	-	30	45	3	75
T7655	070121305 ME	Theory of Machines-I	C	4	-	-	-	-	40	60	4	100
T7632	070121306 ME	Manufacturing Technology	C	3	-	-	-	-	30	45	3	75
T7652	070121307 ME	Strength of Materials Lab	ID	-	-	2	10	15	-	-	1	25
T7601	070121308 ME	Applied Thermodynamics Lab	C	-	-	2	10	15	-	-	1	25
T7636	070121309 ME	Measurement and Metrology Lab	C	-	-	2	10	15	-	-	1	25
T7656	070121310 ME	Theory of Machines-I Lab	C	-	-	2	10	15	-	-	1	25
T7633	070121311 ME	Manufacturing Technology Lab	C	-	-	2	10	15	-	-	1	25
		Total		19	4	10	50	75	210	315	26	650
T4005	070121312 ME	*Integrated Disaster Management	GP	-	-	-	-	-	-	-	-	Letter Grade

For 2 hours tutorial, there will be 1hour class room teaching and 1hour for projects/self-study/assignments.

Semester IV

Catalog Course Code	Course Code	Course Title	Nature	Teaching Scheme			Examination Scheme Marks				Total Credits	Total Marks
				L	T	Lab	Practical		CA	ESE		
							CA	ESE				
T7614	070121401 ME	Fluid Mechanics	ID	3	2	-	-	-	40	60	4	100
T7625	070121402 ME	Machine Design-I	C	3	-	-	-	-	30	45	3	75
T7618	070121403 ME	Heat Transfer	C	3	2	-	-	-	40	60	4	100
T7634	070121404 ME	Material Science	C	3	-	-	-	-	30	45	3	75
T7653	070121405 ME	Theory of Machines-II	C	3	-	-	-	-	30	45	3	75
T7615	070121406 ME	Fluid Mechanics Lab	ID	-	-	2	10	15	-	-	1	25
T7626	070121407 ME	Machine Design-I Lab	C	-	-	2	10	15	-	-	1	25
T7619	070121408 ME	Heat Transfer Lab	C	-	-	2	10	15	-	-	1	25
T7631	070121409 ME	Manufacturing Practices Lab	C	-	-	2	10	15	-	-	1	25
T7654	070121410 ME	Theory of Machines -II Lab	C	-	-	2	10	15	-	-	1	25
T7629	070121411 ME	Machine Drawing and Computer Graphics Lab	C	-	-	4	20	30	-	-	2	50
	070121412 ME	Inter Institute Course I	GP	2	-	-	-	-	50	-	2	50
	070121413 ME	Inter Institute Course II	GP	2	-	-	-	-	50	-	2	50
T7674	070121414 FYB	Cyber Security	ID	2	-	-	-	-	50	-	2	50
		Total		21	4	14	70	105	320	255	30	750

For 2 hours tutorial, there will be 1 hour class room teaching and 1 hour for projects/self-study/assignments.

Semester V

Catalog Course Code	Course Code	Course Title	Nature	Teaching Scheme			Examination Scheme Marks				Total Credits	Total Marks
				L	T	Lab	Practical		CA	ESE		
							CA	ESE				
T7620	070121501 ME	I. C. Engines	C	3	-	-	-	-	30	45	3	75
T7647	070121502 ME	Production Management	C	3	-	-	-	-	30	45	3	75
T7627	070121503 ME	Machine Design- II	C	3	2	-	-	-	40	60	4	100
T7606	070121504 ME	CAD&CAM	C	4	-	-	-	-	40	60	4	100
T7612	070121505 ME	Fluid Machinery	C	4	-	-	-	-	40	60	4	100
T7640	070121506 ME	Mechatronics	ID	3	-	-	-	-	30	45	3	75
T7621	070121507 ME	I.C. Engines Lab	C	-	-	2	10	15	-	-	1	25
T7628	070121508 ME	Machine Design- II Lab	C	-	-	2	10	15	-	-	1	25
T7613	070121509 ME	Fluid Machinery Lab	C	-	-	2	10	15	-	-	1	25
T7607	070121510 ME	CAD&CAM Lab	C	-	-	2	10	15	-	-	1	25
T7641	070121511 ME	Mechatronics Lab	ID	-	-	2	10	15	-	-	1	25
T8000	070121512 ME	Service Learning	GP	4	-	-	-	-	100	-	4	100
Total				24	2	10	50	75	310	315	30	750

For 2 hours tutorial, there will be 1 hour class room teaching and 1 hour for projects/self-study/assignments.

Semester VI

Catalog Course Code	Course Code	Course Title	Nature	Teaching Scheme			Examination Scheme Marks				Total Credits	Total Marks
				L	T	Lab	Practical		CA	ESE		
							CA	ESE				
Group A												
T7920	070121601 ME	Internship (6 Months)	PD	-	-	-	195	130	-	-	13	325
T7671	070121602 ME	Seminar		-	-	-	60	40	-	-	4	100
	070121607 ME	Global Immersion Program										
Total				-	-	-	255	170	-	-	17	425
OR												
Group B												
T7905	070121603 ME	Internship(6-8Weeks)	PD	-	-	10	75	50	-	-	5	125
T7048	070121604 ME	Project Management		4	-	-	-	-	40	60	4	100
T7643	070121605 ME	Non-Conventional Production Processes	C	4	-	-	-	-	40	60	4	100
T7646	070121606 ME	Pressure Vessel Design	C	4	-	-	-	-	40	60	4	100
Total				12	-	10	75	50	120	180	17	425

For 2 hours tutorial, there will be 1 hour class room teaching and 1 hour for projects/self-study/assignments.

Semester VII

Catalog Course Code	Course Code	Course Title	Nature	Teaching Scheme			Examination Scheme Marks				Total Credits	Total Marks
				L	T	Lab	Practical		CA	ESE		
							CA	ESE				
T7644	070121701 ME	Operations Research	C	3	-	-	-	-	30	45	3	75
T7676	070121702 ME	Total Quality Management	GP	3	-	-	-	-	30	45	3	75
T7389	070121703 ME	Numerical Methods in Engineering	C	2	2	-	-	-	30	45	3	75
T7637	070121704 ME	Mechanical System Design	C	4	-	-	-	-	40	60	4	100
T7638	070121705 ME	Mechanical System Design Lab	C	-	-	2	10	15	-	-	1	25
T7390	070121706 ME	Numerical Methods in Engineering Lab	C	-	-	2	10	15	-	-	1	25
Elective -I (Choose any one of the following)												
T7642	070121707 ME	Non-conventional Energy Sources	C	3	-	-	-	-	30	45	3	75
T7657	070121708 ME	Tribology	C	3	-	-	-	-	30	45	3	75
T7602	070121709 ME	Automobile Engineering	C	3	-	-	-	-	30	45	3	75
T7617	070121710 ME	Gas Turbine and Jet Propulsion	C	3	-	-	-	-	30	45	3	75
T7639	070121711 ME	Mechanical Vibrations	C	3	-	-	-	-	30	45	3	75
Liberal Arts (Choose any two of the following)												
T6184	070121712 ME	Basic German I	ID	2	-	-	-	-	50	-	2	50
T6185	070121713 ME	Basic German II	ID	2	-	-	-	-	50	-	2	50
T6186	070121714 ME	Basic French I	ID	2	-	-	-	-	50	-	2	50
T6187	070121715 ME	Basic French II	ID	2	-	-	-	-	50	-	2	50
T6188	070121716 ME	Basic Spanish I	ID	2	-	-	-	-	50	-	2	50
T6189	070121717 ME	Basic Spanish II	ID	2	-	-	-	-	50	-	2	50
T6167	070121718 ME	Basics of Microeconomics	ID	2	-	-	-	-	50	-	2	50
T6168	070121719 ME	Basics of Macroeconomics	ID	2	-	-	-	-	50	-	2	50
T6274	070121720 ME	Foundations of Ethics	ID	2	-	-	-	-	50	-	2	50
T6275	070121721 ME	Concept of Wealth and Prosperity	ID	2	-	-	-	-	50	-	2	50
Free Elective (Choose any one of the following)												
T7457	070121722 ME	Integrated Water Resources Development and Management	ID	3	-	-	-	-	30	45	3	75
T7456	070121723 ME	Town and Country Planning	ID	3	-	-	-	-	30	45	3	75
T7499	070121724 ME	JAVA	ID	3	-	-	-	-	30	45	3	75
T7509	070121725 ME	Open Source Technologies	ID	3	-	-	-	-	30	45	3	75
T7474	070121726 ME	Basics of Database	ID	3	-	-	-	-	30	45	3	75
T7574	070121727 ME	MATLAB	ID	3	-	-	-	-	30	45	3	75
T7584	070121728 ME	Printed Circuit Board (PCB) Design	ID	3	-	-	-	-	30	45	3	75

T7616	070121729 ME	Fundamentals of Automotive Technology	C	3	-	-	-	-	30	45	3	75
T7650	070121730 ME	Six Sigma	C	3	-	-	-	-	30	45	3	75
T7020	070121731 ME	Nanotechnology	ID	3	-	-	-	-	30	45	3	75
T7394	070121732 ME	Smart Materials	ID	3	-	-	-	-	30	45	3	75
T7393	070121733 ME	Computer based Statistical Packages	ID	3	-	-	-	-	30	45	3	75
Total				22	2	4	20	30	290	285	25	625

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Semester VIII

Catalog Course Code	Course Code	Course Title	Nature	Teaching Scheme			Examination Scheme Marks				Total Credits	Total Marks
				L	T	Lab	Practical		CA	ESE		
							CA	ESE				
T7804	070121801 ME	B. Tech Project	C	-	-	8	40	60	-	-	4	100
T7610	070121802 ME	Finite Element Methods	C	3	2	-	-	-	40	60	4	100
T7648	070121803 ME	Refrigeration and Air Conditioning	C	3	2	-	-	-	40	60	4	100
T7622	070121804 ME	Industrial Automation and Robotics	C	4	-	-	-	-	40	60	4	100
T7649	070121805 ME	Refrigeration and Air Conditioning Lab	C	-	-	2	10	15	-	-	1	25
T7623	070121806 ME	Industrial Automation and Robotics Lab	C	-	-	2	10	15	-	-	1	25
T7611	070121807 ME	Finite Element Methods Lab	C	-	-	2	10	15	-	-	1	25
Elective-II (Choose any one of the following)												
T7645	070121808 ME	Power Plant Engineering	C	4	-	-	-	-	40	60	4	100
T7608	070121809 ME	Computational Fluid Dynamics	C	4	-	-	-	-	40	60	4	100
T7624	070121810 ME	Industrial Fluid Power	C	4	-	-	-	-	40	60	4	100
T7630	070121811 ME	Machine Tool Design	C	4	-	-	-	-	40	60	4	100
Total				14	4	14	70	105	160	240	23	575

For 2 hours tutorial, there will be 1hour class room teaching and 1hour for projects/self-study/assignments.

L- Lecture , T-Tutorial,
HA-Home Assignment

C - Core Course

ES - Engineering Science
Course

GP - General Proficiency
Course

ID - Inter Disciplinary Course

PD - Professional Development
Course

CA- Continuous Assessment, ESE- End Semester Examination

Practical, CA, ESE are separate heads of Passing

Practical external examination may be conducted by alternate
internal faculty