Semester : Second

Sr No	Course Title	Abbrevation	Course Type	Course Code	Total IKS Hrs for Sem.	CL	TL	LL	Self Learning (Activity/ Assignment /Micro Project)	Notional Learning Hrs /Week	Credits	Paper Duration (hrs.)	FA-TH Max	SA-TH Max	Total Max	Min	FA-PR Max	Min	SA-PR Max	Min	SLA Max	Min	Total Marks
																	Based on LL & TL				Based on Self Learning		
						Actual Contact Hrs./Week							Theory				Practical						
General (ALL COURSES COMPULSORY) Compulsory - 7																						
1	APPLIED MATHEMATICS	AMS	AEC	312301	2	3	1	-	-	4	2	3	30	70	100	40	-	-	-	-	-	-	100
2	APPLIED SCIENCE	ASC	DSC	312308	4	4	-	4	-	8	4	1.5	30	70*#	100	40	50	20	50@	20	-	-	200
3	ENGINEERING DRAWING	EDG	SEC	312311	4	2	-	4	2	8	4	4	30	70	100	40	25	10	25@	10	25	10	175
4	ENGINEERING MECHANICS	EGM	DSC	312312	2	3	1	2	2	8	4	3	30	70	100	40	25	10	-	-	25	10	150
5	MANUFACTURING TECHNOLOGY	MPR	DSC	312313	1	3	-	4	1	8	4	3	30	70	100	40	25	10	25@	10	25	10	175
6	PROFESSIONAL COMMUNICATION	PCO	SEC	312002	0	-	-	2	-	2	1	-	-	-	-	-	25	10	25@	10	-	-	50
7	SOCIAL AND LIFE SKILLS	SFS	VEC	312003		-	-	1	1	2	1	-	-	-	-	-	25	10	-	-	25	10	50
	Total				13	15	2	17	6	40	20		150	350	500		175		125		100		900

Abbreviations : CL- Classroom Learning , TL- Tutorial Learning, LL-Laboratory Learning, FA - Formative Assessment,SA -Summative Assessment, IKS - Indian Knowledge System, SLA - Self Learning Assessment

Legends : @ Internal Assessment, # External Assessment, *# On Line Examination , @$ Internal Online Examination

Note :

1. FA-TH represents average of two class tests of 30 marks each conducted during the semester.

2. If candidate is not securing minimum passing marks in FA-PR of any course then the candidate shall be declared as "Detained" in that semester.

3. If candidate is not securing minimum passing marks in SLA of any course then the candidate shall be declared as fail and will have to repeat and resubmit SLA work.

4. Notional Learning hours for the semester are (CL+LL+TL+SL)hrs.* 15 Weeks

5. 1 credit is equivalent to 30 Notional hrs.

6. * Self learning hours shall not be reflected in the Time Table.

Course Category : Discipline Specific Course Core (DSC) : 3, Discipline Specific Elective (DSE) : 0, Value Education Course (VEC) : 1, Intern./Apprenti./Project./Community (INP) : 0, AbilityEnhancement Course (AEC) : 1, Skill Enhancement Course (SEC) : 2, GenericElective (GE) : 0

Semester : Third

Sr No	Course Title	Abbrevation	Course Type	Course Code	Total IKS Hrs for Sem.	CL	TL	LL	Self Learning (Activity/ Assignment /Micro Project)	Notional Learning Hrs /Week	Credits	Paper Duration (hrs.)	Theory FA-TH Max	Theory SA-TH Max	Theory Total Max	Theory Total Min	Practical FA-PR Max	Practical FA-PR Min	Practical SA-PR Max	Practical SA-PR Min	SLA Max	SLA Min	Total Marks
						Actual Contact Hrs./Week										Based on LL & TL				Based on Self Learning			

General (All Courses are Compulsory) Compulsory - 8

Sr No	Course Title	Abbrevation	Course Type	Course Code	Total IKS Hrs for Sem.	CL	TL	LL	Self Learning (Activity/ Assignment /Micro Project)	Notional Learning Hrs /Week	Credits	Paper Duration (hrs.)	FA-TH Max	SA-TH Max	Total Max	Total Min	FA-PR Max	FA-PR Min	SA-PR Max	SA-PR Min	SLA Max	SLA Min	Total Marks
1	ESSENCE OF INDIAN CONSTITUTION	EIC	VEC	313304		1			1	2	1	-	-	-	-	-	-	-	-	-	50	20	50
2	BASIC ELECTRICAL AND ELECTRONICS	BEE	AEC	313307	0	2	-	4	-	6	3	-	-	-	-	-	50	20	50@	20	-	-	100
3	FLUID MECHANICS AND MACHINERY	FMM	DSC	313308		3	-	2	1	6	3	3	30	70	100	40	25	10	25#	10	25	10	175
4	PRODUCTION DRAWING	PDR	SEC	313310		2	-	4	2	8	4	4	30	70	100	40	25	10	25@	10	25	10	175
5	STRENGTH OF MATERIALS	SOM	DSC	313311		4		2		6	3	3	30	70	100	40	25	10	-	-	-	-	125
6	THERMAL ENGINEERING	TEG	DSC	313312		3	-	2	1	6	3	3	30	70	100	40	25	10	25@	10	25	10	175
7	COMPUTER AIDED DRAFTING	CAD	SEC	313002		-	-	4	-	4	2	-	-	-	-	-	25	10	25#	10	-	-	50
8	FUNDAMENTALS OF PYTHON PROGRAMMING	FPP	AEC	313005		-	-	2	-	2	1	-	-	-	-	-	25	10	25@	10	-	-	50
	Total				0	15	0	20	5	40	20		120	280	400		200		175		125		900

Abbreviations : CL- Classroom Learning , TL- Tutorial Learning, LL-Laboratory Learning, FA - Formative Assessment,SA -Summative Assessment, IKS - Indian Knowledge System, SLA - Self Learning Assessment

Legends : @ Internal Assessment, # External Assessment, *# On Line Examination , @$ Internal Online Examination

Note :

1. FA-TH represents average of two class tests of 30 marks each conducted during the semester.

2. If candidate is not securing minimum passing marks in FA-PR of any course then the candidate shall be declared as "Detained" in that semester.

3. If candidate is not securing minimum passing marks in SLA of any course then the candidate shall be declared as fail and will have to repeat and resubmit SLA work.

4. Notional Learning hours for the semester are (CL+LL+TL+SL)hrs.* 15 Weeks

5. 1 credit is equivalent to 30 Notional hrs.

Semester : Fourth

Sr No	Course Title	Abbrevation	Course Type	Course Code	Total IKS Hrs for Sem.	CL	TL	LL	Self Learning (Activity/ Assignment /Micro Project)	Notional Learning Hrs /Week	Credits	Paper Duration (hrs.)	FA-TH Max	SA-TH Max	Total Max	Total Min	FA-PR Max	FA-PR Min	SA-PR Max	SA-PR Min	SLA Max	SLA Min	Total Marks
						\<Actual Contact Hrs./Week\>							\<Theory\>				\<Based on LL & TL Practical\>				\<Based on Self Learning\>		
General (All Courses are Compulsory) Compulsory - 8																							
1	ENVIROMENTAL EDUCATION AND SUSTAINABILITY	EES	VEC	314302		3	-	-	1	4	2	1.5	30	70*#	100	40	-	-	-	-	25	10	125
2	ADVANCED MANUFACTURING TECHNOLOGY	AMF	DSC	314305		4	-	2	-	6	3	3	30	70	100	40	25	10	-	-	-	-	125
3	ENGINEERING METALLURGY	EMT	DSC	314306		2	-	2	2	6	3	1	15	35*#	50	20	25	10	-	-	25	10	100
4	METROLOGY AND MEASUREMENT	MAM	DSC	314307		3	-	2	1	6	3	3	30	70	100	40	25	10	25#	10	25	10	175
5	THEORY OF MACHINES	TOM	DSC	314308		4	-	2	-	6	3	3	30	70	100	40	25	10	-	-	-	-	125
6	ENTERPRENEURSHIP DEVELOPMENT AND STARTUPS	EDS	AEC	315302		1	-	2	1	4	2	-	-	-	-	-	50	20	25@	10	25	10	100
7	BASICS OF MECHATRONICS	BOM	AEC	Course Code Will be Created After Locking Scheme		-	-	2	-	2	1	-	-	-	-	-	25	10	25@	10	-	-	50
8	CNC PROGRAMMING	CNC	SEC	314003		-	-	4	-	4	2	-	-	-	-	-	25	10	25#	10	-	-	50
	Total				0	17	0	16	5	38	19		135	315	450		200		100		100		850

Abbreviations : CL- Classroom Learning , TL- Tutorial Learning, LL-Laboratory Learning, FA - Formative Assessment,SA -Summative Assessment, IKS - Indian Knowledge System, SLA - Self Learning Assessment

Legends : @ Internal Assessment, # External Assessment, *# On Line Examination , @$ Internal Online Examination

Note :

1. FA-TH represents average of two class tests of 30 marks each conducted during the semester.

2. If candidate is not securing minimum passing marks in FA-PR of any course then the candidate shall be declared as "Detained" in that semester.

Semester : Fifth

Sr No	Course Title	Abbrevation	Course Type	Course Code	Total IKS Hrs for Sem.	CL	TL	LL	Self Learning (Activity/ Assignment /Micro Project)	Notional Learning Hrs /Week	Credits	Paper Duration (hrs.)	FA-TH Max	SA-TH Max	Total Max	Total Min	FA-PR Max	FA-PR Min	SA-PR Max	SA-PR Min	SLA Max	SLA Min	Total Marks
						Actual Contact Hrs./Week							**Theory**				**Based on LL & TL — Practical**				**Based on Self Learning**		
General (All Courses are Compulsory) Compulsory - 5																							
1	MANAGEMENT	MAN	VEC	316302		3	-	-	1	4	2	1.5	30	70*#	100	40	-	-	-	-	25	10	125
2	INDUSTRIAL HYDRAULICS AND PNEUMATICS	IHP	DSC	315327		4	-	2	2	8	4	3	30	70	100	40	25	10	25#	10	25	10	175
3	POWER ENGINEERING	PER	DSC	315328		4	-	4	-	8	4	3	30	70	100	40	25	10	25#	10	-	-	150
4	SEMINAR AND PROJECT INITIATION COURSE	SPI	AEC	315002		-	-	2	-	2	1	-	-	-	-	-	25	10	25@	10	-	-	50
5	INTERNSHIP(12 WEEKS)	ITR	SEC	315001		-	-	-	-	0	6	-	-	-	-	-	-	-	75#	30	75	30	150
Elective - I (Select any One Course) Any - 1																							
6	POWER PLANT ENGINEERING	PPE	DSE	315311		4	-	2	-	6	3	3	30	70	100	40	25	10	25#	10	-	-	150
	TOOL ENGINEERING	TEN	DSE	315313		4	-	2	-	6	3	3	30	70	100	40	25	10	25#	10	-	-	150
	BASIC AUTOMOBILE ENGINEERING	BAE	DSE	315329		4	-	2	-	6	3	3	30	70	100	40	25	10	25#	10	-	-	150
	HEATING VENTILATION AIR CONDITIONING AND REFRIGERATION	HVA	DSE	315330		4	-	2	-	6	3	3	30	70	100	40	25	10	25#	10	-	-	150
	Total				0	15	0	10	3	28	20		120	280	400		100		175		125		800

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Semester : Sixth

Sr No	Course Title	Abbrevation	Course Type	Course Code	Total IKS Hrs for Sem.	CL	TL	LL	Self Learning (Activity/ Assignment /Micro Project)	Notional Learning Hrs /Week	Credits	Paper Duration (hrs.)	FA-TH Max	SA-TH Max	Total Max	Total Min	FA-PR Max	FA-PR Min	SA-PR Max	SA-PR Min	SLA Max	SLA Min	Total Marks
Learning Scheme / Actual Contact Hrs./Week												Assessment Scheme (Theory / Based on LL & TL Practical / Based on Self Learning)												

Sr No	Course Title	Abbrevation	Course Type	Course Code	Total IKS Hrs for Sem.	CL	TL	LL	Self Learning (Activity/ Assignment /Micro Project)	Notional Learning Hrs /Week	Credits	Paper Duration (hrs.)	FA-TH Max	SA-TH Max	Total Max	Total Min	FA-PR Max	FA-PR Min	SA-PR Max	SA-PR Min	SLA Max	SLA Min	Total Marks
General (All Courses are Compulsory) Compulsory - 6																								
1	EMERGING TRENDS IN MECHANICAL ENGINEERING	ETM	DSC	315308		3	-	-	1	4	2	1.5	30	70*#	100	40	-	-	-	-	25	10	125
2	DESIGN OF MACHINE ELEMENTS	DME	DSC	316321		4	-	2	2	8	4	4	30	70	100	40	25	10	-	-	25	10	150
3	INDUSTRIAL ENGINEERING AND QUALITY CONTROL	IEQ	DSC	316322		4	-	2	-	6	3	3	30	70	100	40	25	10	25@	10	-	-	150
4	3D MODELLING AND ADDITIVE MANUFACTURING	3DM	SEC	316004		-	-	4	2	6	3	-	-	-	-	-	25	10	50#	20	25	10	100
5	MECHANICAL MAINTENANCE AND SAFETY	MMS	SEC	316005		-	-	4	2	6	3	-	-	-	-	-	25	10	25@	10	25	10	75
6	CAPSTONE PROJECT	CPE	INP	316001		-	-	4	-	4	2	-	-	-	-	-	100	40	50#	20	-	-	150
Elective - II (Select any One Course) Any - 1																								
7	COLD CHAIN MANAGEMENT	CCM	DSE	316310		4	-	2	-	6	3	3	30	70	100	40	25	10	25#	10	-	-	150
7	COMPUTER INTEGRATED MANUFACTURING	CIM	DSE	316311		4	-	2	-	6	3	3	30	70	100	40	25	10	25#	10	-	-	150
7	ADVANCED AUTOMOBILE ENGINEERING	AAE	DSE	316323		4	-	2	-	6	3	3	30	70	100	40	25	10	25#	10	-	-	150
7	ENERGY																						

ENERGY MANAGEMENT	EMG	DSE	316324	4	-	2	-	6	3	3	30	70	100	40	25	10	25#	10	-	-	150
Total				0	15	0	18	7	40	20		120	280	400		225		175		100	900

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6. * Self learning hours shall not be reflected in the Time Table.

Course Category : Discipline Specific Course Core (DSC) : 3, Discipline Specific Elective (DSE) : 4, Value Education Course (VEC) : 0, Intern./Apprenti./Project./Community (INP) : 1, AbilityEnhancement Course (AEC) : 0, Skill Enhancement Course (SEC) : 2, GenericElective (GE) : 0