## Structure of Curriculum 2018-Session

	SEMESTER - 1								
Course	Course Title	Course Type	Conta	act Hou	rs	Credit	Pre- requisites		
Code	course mile	Type	L	Т	Р	С			
MA101	Mathematics – I	Sc/HS	3	1	0	4	None		
ME101	<b>Engineering Mechanics</b>	BE	3	0	0	3	None		
CY101/ PH101	Chemistry/Physics	Sc/HS	2/3	1	0	3/4	None		
CE101	<b>Engineering Drawing</b>	BE	1	0	4	3	None		
EE101/ EC101	Basic Electrical Engineering/ BasicElectronics Engineering	BE	2	0	0	2	None		
HS101	English Language Skills	Sc/HS	2	0	0	2	None		
HS151	English Language Skills Lab	L	0	0	2	1	None		
CY151/ PH151	Chemistry/Physics Lab	L	0	0	2	1	None		
EE151/ EC151	Basic Electrical Lab/ Basic Electronics Lab	L	0	0	2	1	None		
	Total Contact Hours – Component wise			2	10				
	Total Contact Hours					20/21	-		

SEMESTER - 2									
Course	ourse		Con	tact Ho	urs	Credit	Pre-		
Code	Course Title	Туре	L	Т	Р	С	requisites		
MA102	Mathematics – II	Sc/HS	3	1	0	4	None		
EE101/ EC101	Basic ElectricalEngineering/ BasicElectronicsEngineering	BE	2	0	0	2	None		
PH101/ CY101	Physics /Chemistry	Sc/HS	3/2	1	0	4/3	None		
CY102	Environmental Science	Sc/HS	2	0	0	2	None		
CS102	Introduction to Computing	BE	2	1	0	3	None		
ME152	Workshop Practice	L	0	0	4	2	None		
EE151/ EC151	Basic Electrical Lab/Basic Electronics Lab	L	0	0	2	1	None		
CY151/ PH151	Chemistry Lab/Physics Lab	L	0	0	2	1	None		
CS152	Computing Lab	L	0	0	2	1	None		
	Total Contact Hours – Compon	ent wise	12/11	3	10				
Total Contact Hours			2	25/24		20/19			

	SEMESTER - 3								
Course	Course Title	Course	Cont	tact Ho	ours	Credit	Pre- requisites		
Code	course ritte	Туре	L	Т	Р	С			
MA 201	Integral Transforms and PDEs	М	3	1	0	4	None		
	Professional C	core Course	es - 1, 2,	3					
ME 201	Strength of Materials	PC	3	0	0	3	None		
ME 203	Engineering Thermodynamics	PC	3	0	0	3	None		
ME 205	Fluid Mechanics	РС	3	0	0	3	None		
	Specia	l Course –	1						
ME 291	Safety Engineering	S	2	0	0	2	None		
	Lab Courses - 1, 2, 3								
ME 251	Material Testing Lab	L	0	0	2	1	None		
ME 253	Advanced Workshop Practice.	L	0	1	2	2	None		
ME 255	Fluid Mechanics Lab	L	0	1	2	2	None		
	Total Contact Hours – Component wise			3	6				
Total Contact Hours				23		20			

	SEMESTER - 4								
Course	0 mul	Course	Con	tact H	ours	Credit			
Code	Course Title	Type L		Т	Р	С	Pre- requisites		
Profession	Professional Core Courses - 4, 5, 6								
ME 202	Kinematics & Dynamics of Machines	РС	3	1	0	4	ME 101		
ME 204	<b>Engineering Materials</b>	РС	3	0	0	3	None		
ME 206	Applied Thermodynamics	РС	3	0	0	3	ME 203		
	Professio	nal Electiv	e – 1						
ME 212	Metrology & Instrumentation	PE	3	0	0	3	None		
ME 214	Dynamics of rigid Bodies	PE	3	0	0	3	None		
ME 216	Principles of Gas Turbine	PE	3	0	0	3	None		
ME 218	Concepts in Engineering Design	PE	3	0	0	3	None		
	Professional Elective – 2								
ME 220	Fluid Machines	PE	3	0	0	3	None		
ME 222	Advanced Strength of Material	PE	3	0	0	3	None		
ME 224	Organizational Behaviour	PE	3	0	0	3	None		
ME 226	Numerical Methods in Engineering	PE	3	0	0	3	None		
	Open	Elective -	1						
ME 272	Product Design and Development.	OE	2	0	0	2	None		
	Lab Co	urses - 4, 5	, 6						
ME 252	Theory of Machine Lab	L	0	1	2	2	None		
ME 254	Material Science Lab	L	0	0	2	1	None		
ME 256	Fluid Machines Lab	L	0	1	2	2	None		
	Total Contact Hours – Component wis	е	17	3	6				
Total Contact Hours			26		23				

	SE	MESTER -	5							
Course	Course Title	Course	Contact Hours			Credit				
Code		Туре	L	Т	Р	С	Pre-requisites			
	Professional Core Courses - 7, 8, 9									
ME 301	Manufacturing Technology-I	PC	3	0	0	3	None			
ME 303	Heat Transfer	PC	3	1	0	4	None			
ME 305	Machine Design-I	PC	3	1	0	4	None			
	Professio	onal Electiv	ve - 3							
ME 311	Internal Combustion Engine	PE	3	0	0	3	None			
ME 313	Experimental Stress Analysis	PE	3	0	0	3	None			
ME 315	Non Traditional Manufacturing	PE	3	0	0	3	None			
	Professio	onal Electiv	ve – 4	1						
ME 317	Industrial Engineering	PE	3	0	0	3	None			
ME 319	Design of Thermal systems	PE	3	0	0	3	None			
ME 321	Tribology	PE	3	0	0	3	None			
	Open	Elective –	2	1						
ME 371	Power plant Engg. And Energy Audit.	OE	2	0	0	2	None			
	Lab Co	ourses - 7, 8	8, 9	1						
ME 351	Non Traditional Machining Lab	L	0	0	2	1	None			
ME 353	Thermal Engineering Lab	L	0	1	2	2	None			
ME 355	Machine Design and Drawing	L	0	1	2	2	None			
	Total Contact Hours – Component wise		17	4	6					
	Total Contact Hours			27		24				

	SEM	ESTER - 6							
Course	Course Title	Course	Con	tact Ho	urs	Credit	Pre-requisites		
Code		Туре	L	Т	Р	С			
Professional Core Courses – 10, 11									
ME 302	Machine Design-II	PC	3	1	0	4	ME 305		
ME 304	Manufacturing Technology-II	PC	3	0	0	3	None		
	Profession	al Elective	- 5						
ME 312	Power Plant Engineering	PE	3	0	0	3	None		
ME 314	Mechanics of Composite Material	PE	3	0	0	3	None		
ME 316	Machine Tool Technology	PE	3	0	0	3	None		
ME 318	Advanced Manufacturing Technology andQuality Assurance	PE	3	0	0	3	None		
	Profession	al Elective	- 6						
ME 320	CAD-CAM	PE	3	0	0	3	None		
ME 322	Principles of Management	PE	3	0	0	3	None		
ME 324	Gas Dynamics	PE	3	0	0	3	None		
ME 326	Robotics	PE	3	0	0	3	None		
	Open E	lective – 3							
ME 372	Industry 4.0 and 6 Sigma Engg.	OE	2	0	0	2	None		
	Special H	S Course –	2						
HS392	Corporate English	S	2	0	0	2	None		
	Lab Courses – 10, 11								
ME 352	Advanced Mechanical Lab-I	L	0	1	2	2	None		
ME 354	Advanced Manufacturing Lab	L	0	1	2	2	None		
ME 382	Minor Project	Р	0	0	2	1	None		
	Total Contact Hours – Component wise		16	3	6				
	Total Contact Hours			25		22			

SEMESTER – 7								
Course	Course Title	Course	Contact Hours			Credit	Pre-requisites	
Code		Туре	L	Т	Р	С	The requisites	
ME 401	Project – I	Р	0	0	10	5	None	
	Profession	al Elective	-7	1				
ME 411	Refrigeration and Air-conditioning	PE	3	0	0	3	None	
ME 413	Mechanical Micro Machining	PE	3	0	0	3	None	
ME 415	Fracture Mechanics	PE	3	0	0	3	None	
ME417	Supply Chain and Logistics Management	PE	3	0	0	3	None	
	Profession	al Elective	-8	1				
ME 419	Mechatronics and Control	PE	3	0	0	3	None	
ME 421	Wind energy	PE	3	0	0	3	None	
ME 423	<b>Green Manufacturing</b>	PE	3	0	0	3	None	
ME 425	Biomechanics	PE	3	0	0	3	None	
	Open E	lective –4		1				
ME 471	Supply Chain Management	OE	2	0	0	2	None	
	Special	Course –3	1	1		1		
CE491	Disaster Management	S	2	0	0	2	None	
	Lab Con	urses – 12						
ME 451	Advanced Mechanical Lab-II	L	0	1	2	2	None	
ME 481	Summer Internships	Ι	0	0	0	1	None	
	Total Contact Hours – Component	wise	10	1	12			
	Total Contact Hours			23		18		

	SEMESTER - 8								
Course	Course Title	Course	<b>Contact Hours</b>			Credit	Pre- requisites		
Code	Course Hue	Туре	L	Т	Р	С			
ME 402	Project - II	Р	0	0	18	9	None		
	Profession	al Elective –	9						
ME 412	<b>Computational Fluid Dynamics</b>	PE	3	0	0	3	None		
ME 416	Manufacturing of Composite Materials	PE	3	0	0	3	None		
	Professional Elective –10								
ME 418	Mechanical Vibration	PE	3	0	0	3	None		
ME 420	Automobile Engineering.	PE	3	0	0	3	None		
ME 422	Advanced Manufacturing Process	PE	3	0	0	3	None		
	Special Course –4								
HS492	Entrepreneurship	S	2	0	0	2	None		
	Total Contact Hours – Component wise			0	18				
	Total Contact Hours			<mark>26</mark>		17			