

Programme: B. Tech/M.E.

Semester : II

Year : Jan 2017

Courses to be offered:

Course No.	Course Title	Course Type	L	T	P	Cr	Remarks
MA 102	Mathematics – II	SC	3	1	0	4	
EC 101	Basic Electronics	ESC	3	0	0	3	EE101
CH 101	Engineering Chemistry	SC	3	1	0	4	
ME 102	Engineering Thermodynamics	ESC	2	0	0	2	
ES 101	Environmental Science	SC	2	0	0	2	
CS 101	Computer Programming	ESC	2	0	0	2	
ME 103	Workshop Practice-I	ESC	0	0	4	2	
EC151	Basic Electronics Lab	ESC	0	0	2	1	
CH151	Engineering Chemistry Lab	SC	0	0	2	1	
CS151	Computer Programming Lab	ESC	0	0	2	1	
			15	2	10		
		Total		27		22	

Programme: B. Tech/M.E

Semester : IV

Year : Jan 2017

Courses to be offered:

Course No.	Course Title	Course Type	Pre-Requisite Sub (PRS)	Pre-requisite Status	Contact Hour			Cr
					L	T	P	
MA 203	Scientific Computing	SC	x		3	0	0	3
ME 205	Engineering Materials	DC	x		3	0	0	3
ME 206	Fluid mechanics-II	DC	ME 203		3	0	0	3
ME 207	Theory of Machines	DC	ME 101, ME 202		3	0	0	3
ME 208	Manufacturing Technology –I	DC	x		3	0	0	3
XX nnn	Open Elective- I (other Dept)	OE			3	1	0	4
MA 210	Mathematics Laboratory	SC	CS 101, MA 101, MA 102		0	0	4	2
ME 213	Mechanical Lab – II (Fluid machine lab + Theory of Machine lab)	DC	x		0	0	6	3
					18	1	10	
		Total Contact Hours per week				29		24

Open Electives (II) to be offered:

C. No	Course Title	L	T	P	Cr	Prerequisites
EE210	Electrical Technology	3	0	2	4	EE 101

Courses to be offered:

Course No.	Course Title	Course Type	Pre-Requisite Sub (PRS)	Pre-requisite Status	Contact Hour			Cr
					L	T	P	
ME 304	Machine Design-II	DC	ME 302		3	0	0	3
ME 305	Engineering Metrology & Instrumentation	DC	x		3	0	0	3
ME nnn	Elective – ME02	DE			3	1	2	5
XX nnn	Open Elective - III	OE			3	1	0	4
XX nnn	Open Elective - IV	OE			3	0	0	3
HS301	Foundation of Management	HSC			3	0	0	3
ME 313	Mechanical Lab – IV (Advance Manufacturing Lab + Metrology and Instrumentation Lab)	DC	x		0	0	6	3
					18	2	8	
					28			24

Departmental Electives (II) to be offered:

C. No	Course Title	L	T	P	Cr	Prerequisites
ME 326	Hydraulic Circuit & Control	3	1	2	5	ME 203
ME325	CFD	3	1	2	5	ME 203, ME 301, MA 203
ME 327	CAD/CAM/CIM	3	1	2	5	ME 208/ME 303

Open Electives (III & IV) to be offered:

C. No	Course Title	L	T	P	Cr	Prerequisites
ME321	IC Engine	3	0	0	3	
EE312	Embedded Systems	3	0	2	4	EE 301

Courses to be offered:

Course No.	Course Title	Course Type	Pre-Requisite Sub (PRS)	Pre-requisite Status	Contact Hour			Cr
					L	T	P	
ME 402	Major Project – II	PW	Major Project – I		0	0	16	8
ME nnn	Elective – ME 05	DE			3	0	0	3
ME nnn	Elective – ME 06	DE			3	0	0	3
XX nnn	Open Elective – IV	OE			3	0	0	3
					9	0	16	
					25			17

Departmental Electives (V & VI) to be offered:

C. No	Course Title	L	T	P	Cr	Prerequisites
ME 433	Mechanical Vibration	3	0	0	3	ME201, ME207
ME 427	Power Plant Engineering	3	0	0	3	ME 102, ME 204

Open Electives (IV) to be offered:

C. No	Course Title	L	T	P	Cr	Prerequisites
ME 438	Mechanical Micro-machining	3	0	0	3	NPTEL Course will be taken

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Courses to be offered:

Course No.	Course Title	Contact Hour			Credit	Prerequisites	Prerequisites Status
		L	T	P			
ME 503	Computational Fluid Dynamics	3	0	0	3		
ME xxx	Elective-III	3	0	0	3		
ME xxx	Elective-IV	3	0	0	3		
ME xxx	Elective-V	3	0	0	3	x	
ME 550	Seminar-I	0	0	2	1	x	
ME 532	Computational Laboratory	0	0	6	3	x	
ME 601	Term Paper	0	0	4	2		
		12	0	12			
		24			18		

Electives (III, VI & V) to be offered:

C. No	Course Title	L	T	P	Cr	Prerequisites
ME554	Conduction & Radiation	3	0	0	3	Heat and Mass Transfer
ME556	Electro-Hydraulic Systems & Controls	3	0	0	3	Fluid Mechanics, Theory of Machine
ME 557	Power Production Engineering	3	0	0	3	Heat and Mass Transfer, Basic Thermodynamics, Fluid Mechanics

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Courses to be offered:

Sl. No.	Course Title	Course No.	Contact Hour			Credit	Prerequisites
			L	T	P		
1.	Major Project - II	ME 603	0	0	24	12	x
			0	0	24		
			24			12	