

**List of Courses Aug-Nov 2017 -
UG Program**

1st Semester		Segment	Credits		
ID1035	Independent Project	16	1		
MA1110	Calculus-I	12	1		
MA1220	Calculus-II	36	2		
ID1130	Engineering Statics	13	2	RPK	RPK
ID1100	Fluid Mechanics-I	46	2	HND+SB	HND
ME1010	Manufacturing Technology	56	1	NVR	SSK
ID1054	Digital Fabrication	16	2	Design+	
ID1041	Engineering Drawing	16	2	Civil	
ID1171	Fabrication Lab - I	16	2		
LAXxxx	Liberal & Creative Arts Electives		1		
		Total	16		

3rd Semester		Segment	Credits		
MA2110	Probability	12	1		
MA2120	Transforms	34	1		
PH1031	Physics Lab	16	2		
CY1017	Environmental Chemistry - I	12	1		
BM1030	Bio-Engineering	56	1		
ID1303	Introduction to Programming	36	2		
EE1110	Applied Digital Logic Design	12	1		
EE1010	Electrical Circuits	12	1		
MS1020	Metallic Materials	12	1		
MS2020	Physical Metallurgy	36	2		
ID1110	Fluid Mechanics - II	13	1.5	KB	KB
ID2020	Solid Mechanics - II	46	2	VC	VC
LAXxxx	Liberal & Creative Arts Electives		1		
		Total	17.5		

5th Semester		Segment	Credits	
ME3010	Manufacturing Science - II	14	2	AS
ME3070	Power and Refrigeration System	13	1.5	VE
ME3150	Applied Elasticity	13	1.5	GR
ME3080	Design of Machine Elements	13	2	MR
ME3090	Design of Transmission Elements	46	2	BV
ME3110	Heat & Mass transfer	16	3	ND
ME3445	Finite Element Methods Lab	13	1	MS
ME3455	Computational Fluid Dynamics Lab	46	1	ND
MExxxx	Core-Electives		3	
LAXxxx	Liberal & Creative Arts Electives		1	
		Total	18	

7th Semester		Segment	Credits	
ME4010	Control Systems	13	1.5	CPV
ME4325	Elective Project / CoreElective	16	3	
ME3110	Heat & Mass transfer	16	3	ND
ME 3040	Mathematical Elements for Geometrical Modeling	13	1.5	SSK
ME3050	Computer Integrated Manufacturing	46	1.5	NVR
ME4435	Dynamics lab	13	1	BV
ME4445	Heat Transfer lab	46	1	KVS
MExxxx	Core-Electives (total 9 for 7 & 8 sems)		0-3	
LAXxxx	Liberal & Creative Arts Electives (total 3 for 7 & 8 sem)		0-1	
XXxxxx	Free Electives (total 2 for 7 & 8 sems)		0-1	
		Total	12.5-17.5	

**List of Courses Aug-Nov 2017 -
PG Program**

1st Semester	MAD	Segment	Credits		
ME5010	Mathematical Methods for Engineers	16	3	PS	Q
					Same slot as
ME5110	Advanced Mechanics of Solids	13	1.5	GR	ME3150
ME5120	Dynamics and Vibration	16	3	AKP	S
ME5130	Finite Element Method	16	3	SNK	P
ME5260	Continuum Mechanics	16	3	VC	R
ME5451	Computational Mathematics Lab	46	1	CPV	FN1
MEXxxx	Core Elective (Either from ME5360 or Group 2 or Group-3)		1.5		
		Total	16		
ME5360	Planar Multibody dynamics	46	1.5	RPK	F1, F3
3rd Semester	Common for all stream	Segment	Credits		
ME6106	Seminar Course	16	1	PS	E Thu
ME6005	Thesis Stage - I		14		
		Total	15		

		List of Electives for MAD	Segment	Credits
Group-2	ME5020	Elasticity & Plasticity	13	1.5
	ME5080	Scaling Laws & Multi-scale Manufacturing	46	1.5
Group-3	ME5090	Mathematical Elements for Geometrical Modeling	13	1.5
	ME5100	Computer Integrated Manufacturing	46	1.5

1st Semester	FES	Segment	Credits		
ME5010	Mathematical Methods for Engineers	16	3	PS	Q
ME5310	Incompressible Fluid Flow	16	3	HND	S
ME5320	Advanced Heat Transfer	16	3	KVS	G
ME5330	Computational Fluid Dynamics	16	3	VE	R
ME5451	Computational Mathematics Lab	46	1		FN1
MEXxxx	Core Elective		3		
		Total	16		

		List of Electives for FES	Segment	Credits
Group-1	ME5020	Elasticity & Plasticity	13	1.5
	ME5080	Scaling Laws & Multi-scale Manufacturing	46	1.5
Group-2	ME5090	Mathematical Elements for Geometrical Modeling	13	1.5
	ME5100	Computer Integrated Manufacturing	46	1.5
Group-3	ME5120	Dynamics & Vibration	16	3
Group-4	ME5110	Advanced Mechanics of Solids	13	1.5
Group-5	ME5340	IC Engine Combustion & Pollution	16	3
	ME5130	Finite element methods	16	3

SB

1st Semester	IDM	Segment	Credits		
ME5010	Mathematical Methods for Engineers	16	3	PS	Q
ME5130	Finite Element Method	16	3	SNK	P
ME5140	Process Modeling & Optimization	13 or 46	1.5	AS	S
ME5xxx	Soft Computing lab	16	1	AS	F
ME5080	Scaling Laws & Multi-scale Manufacturing	46	1.5	SSK	R
ME5020	Elasticity & Plasticity	13	1.5	NVR	G
ME5090	Mathematical Elements for Geometrical Modeling	13	1.5	SSK	D
ME5100	Computer Integrated Manufacturing	46	1.5	NVR	D
		Total	14.5		

Elective

Elective

| F slot