National Institute of Technology Calicut

Curriculum of B.Tech. Degree programme in
Mechanical Engineering
(for 2004 admissions)

	Code	Title	L	T	P	Cr
	S₁	**Semester - I**				**20**
1	MA101T	Mathematics I	3	1	0	4
2	SH101T	Physics I	3	0	0	3
3	ZZ101T	Engineering Mechanics I	2	1	0	3
4	ZZ103D	Engineering Graphics I	1	0	3	3
5	SH103C	Chemistry	2	0	2	3
6	SH106T	Professional Communication	3	0	0	3
7	ME103L/C E101L	Mechanical Engineering Workshop/ Civil Engineering Workshop	0	0	2	1
8	OT					

	Code	Title	L	T	P	Cr
	S₂	**Semester - II**				**23**
1	MA102T	Mathematics II	3	1	0	4
2	SH102C	Physics II	2	0	2	3
3	ZZ102T	Engineering Mechanics II	2	1	0	3
4	ZZ104D	Engineering Graphics II	1	0	3	3
5	EE101T	Basic Electrical Engineering	2	1	0	3
6	EC101T	Basic Electronics Engineering	2	1	0	3
7	CS102T	Introduction to computing	2	1	0	3
8	ME103L/ CE101L	Mechanical Engineering Workshop/ Civil Engineering Workshop	0	0	2	1
9	OT					

	Code	Title	L	G	P	Cr
	S₃	**Semester - III**				**19**
1	MA201T	Mathematics III	3	1	0	3
2	EE216T	Electrical Measurements &Machines	3	1	0	3
3	ME211T	Mechanics of Fluids	3	1	0	3
4	ME212T	Elements of Solid Mechanics	3	1	0	3
5	PM213T	Materials Science & Metallurgy	3	1	0	3
6	ME214D	Machine Drawing	0	0	3	2
7	EE215L	Electrical Measurements & Machines Lab	0	0	3	1
8	CE294L	Strength of Materials Lab	0	0	3	1

	Code	Title	L	G	P	Cr
	S₄	**Semester - IV**				**20**
1	MA202T	Mathematics IV	3	1	0	3
2	ME251T	Thermodynamics	3	1	0	3
3	ME252T	Mechanics of Machinery	3	1	0	3
4	ME253T	Advanced Mechanics of Solids	3	1	0	3
5	PM254T	Manufacturing Science	3	1	0	3
6	PM255T	Metrology & Instrumentation	3	1	0	3
7	ME256L	Fluid Mechanics &Fluid Machinery Lab	0	0	3	1
8	PM257 L	Production Engineering Lab I	0	0	3	1

	Code	Title	L	G	P	Cr
	S₅	**Semester - V**				**20**
1	ME301T	Principles of Management	3	1	0	3
2	ME311T	Heat and Mass Transfer	3	1	0	3
3	ZZ301Z	Environmental Studies	3	1	0	3
4	PM313T	Machining Science & Machine Tools	3	1	0	3
5		Elective	3	1	0	3
6		Elective	3	1	0	3
7	PM357L	Metrology & Instrumentation	0	0	3	1
8	PM358L	Production Engineering Lab II	0	0	3	1
		Electives				
1	ME321T	Design for manufacturability				
2	ME322T	Unconventional Energy System				
3	ME323T	Fluid Machinery				
4	ME324T	Introduction to Finite Element Methods				
5	ME326T	Marketing Concepts				
6	ME327T	Management Information Systems				

	Code	Title	L	G	P	Cr
	S₆	**Semester - VI**				**20**
1	ME312T	Dynamics of Machinery	3	1	0	3
2	ME352T	Gas dynamics	3	1	0	3
3	ME353T	Thermal Engineering I	3	1	0	3
4	ME361T	Control System Engineering	3	1	0	3
5	ME362T	CAD/CAM	3	1	0	3
6		Elective	3	1	0	3
7	ME381L	Thermal Engineering Lab	0	0	3	1
8	ME398P	Industrial Training/Mini Project	0	0	3	1
		Electives				
1	ME371T	Fluid Power Control				
2	PM374T	Quality Engineering and Management				
3	PM375T	Work System Design				
4	PM376T	Technology Management				
5	ME377T	Theory of Metal Forming				

	Code	Title	L	G	P	Cr
	S₇	**Semester - VII**				**20**
1	PM351T	Operations Research	3	1	0	3
2	ME401	Machine Design	4	0	0	4
3		Elective	3	1	0	3
4		Elective	3	1	0	3
5		Elective	3	1	0	3
6	ME441L	Heat Transfer Lab	0	0	3	1
7	PM442L	CAD & CAM Lab	0	0	3	1
8	ME444P	Project	0	0	3	3
		Electives				
1	ME421T	Mechanical Behaviour and testing of Materials				
2	ME422T	Computational Methods in Fluid Mechanics and Heat Transfer				
3	ME423T	Automobile Engineering				
4	ME424T	Industrial Tribology				
5	PM425T	Supply chain Management				
6	PM426T	Cost Analysis and Control				
7	ME427T	Aerodynamics				
8	ME429T	Heating Ventilation and Air Conditioning				
9	ME430T	Computer Graphics				
10	PM432T	Organisational Behaviour				
11	PM433T	Consumer Behaviour				

	Code	Title	L	G	P	Cr
	S₈	**Semester - VIII**				**21**
1	ME451T	Thermal Engg.II	3	1	0	3
2	ME452T	Operations Management	3	1	0	3
3	SH341T	Industrial Economics	3	1	0	3
4		Elective	3	1	0	3
5		Elective	3	1	0	3
6	ME443S	Seminar	0	0	3	1
7	ME461P	Project	0	0	6	5
		Electives				
1	ME471T	Powder Metallurgy				
2	ME472T	Refrigerating and Air Conditioning Systems				
3	PM474T	Manufacturing Planning and Control				
4	PM475T	Accounting and Finance for Engineers				
5	ME478T	Introduction to Robotics				
6	PM479T	Discrete Event System Simulation				
7	PM481T	Human Resource Management				

L : Lecture   T : Tutorial   G : Lecture & Tutorial   P : Practical   Cr : Number of credits