National Institute of Technology Calicut

Curriculum of B.Tech. Degree programme in

Mechanical Engineering

(for 2002 admissions)

	Code	Title	L	T	P	Cr		Code	Title	L	T	P	Cr
	S_1					**22/ 21+3***		**S_2**					**22/23 α 23/ 24**
1	MA101T	Mathematics I	3	1	0	4	1	MA102T	Mathematics II	3	1	0	4
2	SH101T	Physics I	3	0	0	3	2	SH102C	Physics II	2	0	2	3
3	ZZ101T	Engineering Mechanics I	2	1	0	3	3	ZZ102T	Engineering Mechanics II	2	1	0	3
4	ZZ103D	Engineering Graphics I	1	0	3	3	4	ZZ104D	Engineering Graphics II	1	0	3	3
5	EE101T/ EC101T	Basic Electrical Engineering/ Basic Electronics Engineering	3 3	0 0	0 0	3 3	5	EC101T/ EE101T	Basic Electronics Engineering/ Basic Electrical Engineering	3 3	0 0	0 0	3 3
6	SH104T	Professional Communication I	1	0	0	1	6	SH105T	Professional Communication II	2	0	0	2
7	SH103C/ ZZ105T	Chemistry/ Computer Programming (O)	2 2	0 1	2 0	3 3	7	ZZ105T/ CS101T SH103C	Computer Programming (O)/ Computer Programming (A)/ Chemistry	2 2 2	1 1 0	0 0 2	3 α 4 3
8	ME101L/ ME102L	Mechanical Engineering Workshop I / Mechanical Engineering Workshop II	0 0	0 0	2 2	1 1	8	ME102L/ ME101L	Mechanical Engineering WorkshopII/ Mechanical Engineering Workshop I	0 0	0 0	2 2	1 1
9	CE101L	Civil Engineering Workshop	0	0	2	1	9	CE101L	Civil Engineering Workshop	0	0	2	1
10	OT	Ph. Edn.(1Cr.),Value Education (1Cr.) National Service Scheme (1Cr.).				3*							
	S_3		**L**	**G**	**P**	**19**		**S_4**		**L**	**G**	**P**	**20**
1	MA201T	Mathematics III	3	1	0	3	1	MA202T	Mathematics IV	3	1	0	3
2	EE216T	Electrical Measurements &Machines	3	1	0	3	2	ME251T	Thermodynamics	3	1	0	3
3	ME211T	Mechanics of Fluids	3	1	0	3	3	ME252T	Mechanics of Machinery	3	1	0	3
4	ME212T	Elements of Solid Mechanics	3	1	0	3	4	ME253T	Advanced Mechanics of Solids	3	1	0	3
5	PM213T	Materials Science & Metallurgy	3	1	0	3	5	PM254T	Manufacturing Science	3	1	0	3
6	ME214D	Machine Drawing	0	0	3	2	6	PM255T	Metrology & Instrumentation	3	1	0	3
7	EE215L	Electrical Measurements & Machines Lab	0	0	3	1	7	ME256L	Fluid Mechanics &Fluid Machinery Lab	0	0	3	1
8	CE294L	Strength of Materials Lab	0	0	3	1	8	PM257 L	Production Engineering Lab I	0	0	3	1
	S_5		**L**	**G**	**P**	**20**		**S_6**		**L**	**G**	**P**	**20**
1	ME301T	Principles of Management	3	1	0	3	1	ME312T	Dynamics of Machinery	3	1	0	3
2	ME311T	Heat and Mass Transfer	3	1	0	3	2	ME352T	Gas dynamics	3	1	0	3
3	ZZ301Z	Environmental Studies	3	1	0	3	3	ME353T	Thermal Engineering I	3	1	0	3
4	PM313T	Machining Science & Machine Tools	3	1	0	3	4	ME361T	Fundamentals of Control System Engineering	3	1	0	3
5		Elective	3	1	0	3	5	ME362T	CAD/CAM	3	1	0	3
6		Elective	3	1	0	3	6		Elective	3	1	0	3
7	PM357L	Metrology & Instrumentation	0	0	3	1	7	ME381L	Thermal Engineering Lab	0	0	3	1
8	PM358L	Production Engineering Lab II	0	0	3	1	8	ME398P/ ME399P	Mini Project / Industrial Training	0 0	0 0	3 3	1 $ 1 $
	S_7		**L**	**G**	**P**	**21**		**S_8**		**L**	**G**	**P**	**21**
1	PM351T	Operations Research	3	1	0	3	1	ME451T	Thermal Engg.II	3	1	0	3
2	ME401T	Machine Design	4	0	0	4	2	ME452T	Operations Management	3	1	0	3
3		Elective	3	1	0	3	3	SH341T	Industrial Economics	3	1	0	3
4		Elective	3	1	0	3	4		Elective	3	1	0	3
5		Elective	3	1	0	3	5		Elective	3	1	0	3
6	ME441L	Heat Transfer Lab	0	0	3	1	6	ME497S	Seminar	0	0	3	1
7	PM442L	CAD & CAM Lab	0	0	3	1	7	ME499P	Project	0	0	6	5
8	ME498P	Project	0	0	3	3							

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

* Three courses of one credit each, to be credited before completing six semesters of the programme.

$ One of Mini Project and Industrial Training is compulsory. Candidates are free to credit both.