

NATIONAL INSTITUTE OF TECHNOLOGY CALICUT
Curriculum of B.Tech. Degree programme in
Mechanical Engineering (Production and Management)
(for 2002 admissions)

	Code	Title	L	T	P	Cr		Code	Title	L	T	P	Cr
	S₁	Semester - I				22/ 21+3 *		S₂	Semester - II				22/23 α23/ α24
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	0	0	3	5	EC101T/ EE101T	Basic Electronics Engineering/ Basic Electrical Engineering	3	0	0	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	0	2	3	7	ZZ105T/ CS101T/ SH103C	Computer Programming (O)/ Computer Programming (A)/ Chemistry	2	1	0	3
8	ME101L/ ME102L	Mechanical Engineering Workshop I / Mechanical Engineering Workshop II	0	0	2	1	8	ME102L/ ME101L	Mechanical Engineering WorkshopII/ Mechanical Engineering Workshop I	0	0	2	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*							
	S₃	Semester - III	L	G	P	19		S₄	Semester - IV	L	G	P	20
1	MA201T	Mathematics III	3	1	0	3	1	MA202 T	Mathematics IV	3	1	0	3
2	EE216T	Electrical Measurements & Machines	3	1	0	3	2	ME 251T	Thermodynamics	3	1	0	3
3	ME211T	Mechanics of Fluids	3	1	0	3	3	ME 252T	Mechanics of Machinery	3	1	0	3
4	ME212T	Elements of Solid Mechanics	3	1	0	3	4	ME 253T	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	EE215 L	Electrical Measurements & Machines Lab	0	0	3	1	7	ME256L	Fluid Mechanics & Fluid Machinery Lab	0	0	3	1
8	CE294 L	Strength of Materials Lab	0	0	3	1	8	PM257L	Production Engineering Lab I	0	0	3	1
	S₅	Semester - V	L	G	P	20		S₆	Semester - VI	L	G	P	20
1	ME301T	Principles of Management	3	1	0	3	1	ME 312T	Dynamics of Machinery	3	1	0	3
2	ME311T	Heat and Mass Transfer	3	1	0	3	2	PM352T	Operations Management	3	1	0	3
3	ZZ301Z	Environmental Studies	3	1	0	3	3	ME354T	Thermal Engineering	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	ME382L	Thermal Engineering & Heat Transfer Lab	0	0	3	1
8	PM358L	Production Engineering Lab II	0	0	3	1	9	PM398P/ PM399P	Mini Project / Industrial Training	0	0	3	1 \$ 1 \$
	S₇	Semester - VII	L	G	P	21		S₈	Semester - VIII	L	G	P	21
1	PM351T	Operations Research	3	1	0	3	1	PM451T	Tool Engineering & Design	3	1	0	3
2	ME401T	Machine Design	4	0	0	4	2	PM452T	Quality Engineering and 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	PM441L	Management Science Lab	0	0	3	1	6	PM497S	Seminar	0	0	3	1
7	PM442L	CAD & CAM Lab	0	0	3	1	7	PM499P	Project	0	0	6	5
8	PM498P	Project	0	0	3	3							

* 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.