NATIONAL INSTITUTE OF TECHNOLOGY CALICUT

Curriculum of B.Tech. Degree programme in

Mechanical Engineering (Production and Management)

(for 2003 admissions)

	Code	Title	L	T	P	Cr		Code	Title	L	T	P	Cr
	S_1	**Semester - I**				**20+3 ***		**S_2**	**Semester - II**				**23**
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	SH103C	Chemistry	2	0	2	3	5	EE101T	Basic Electrical Engineering	2	1	0	3
6	SH106T	Professional Communication	3	0	0	3	6	EC101T	Basic Electronics Engineering	2	1	0	3
7	ME103L/ CE101L	Mechanical Engineering Workshop/ Civil Engineering Workshop	0	0	2	1	7	CS102T	Introduction to computing	2	1	0	3
8	OT	Ph. Edn.(1Cr.),Value Education (1Cr.) National Service Scheme (1Cr.).				3*	8	ME103L/ CE101L	Mechanical Engineering Workshop/ Civil Engineering Workshop	0	0	2	1
	S_3	**Semester - III**	**L**	**G**	**P**	**19**		**S_4**	**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
	S_5	**Semester - V**	**L**	**G**	**P**	**20**		**S_6**	**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	0 0	3 3	1 $ 1 $
	S_7	**Semester - VII**	**L**	**G**	**P**	**21**		**S_8**	**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.