

NATIONAL INSTITUTE OF TECHNOLOGY CALICUT

Curriculum of B.Tech. Degree Programme in

Mechanical Engineering

(for 2003 admissions)

	Code	Title	L	T	P	Cr
	S₁	Semester - I				20+ 3*
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/ CE101L	Mechanical Engineering Workshop/ Civil Engineering Workshop	0	0	2	1
8	OT	Ph. Edn.(1 Cr.),Value Education (1 Cr.) National Service Scheme (1 Cr.)				3*

	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

	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

	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	Fundamentals of 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/ ME399P	Mini Project / Industrial Training	0 0	0 0	3 3	1 \$ 1 \$

	Code	Title	L	G	P	Cr
	S₇	Semester - VII				21
1	PM351T	Operations Research	3	1	0	3
2	ME401T	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	ME498P	Project	0	0	3	3

	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	ME497S	Seminar	0	0	3	1
7	ME499P	Project	0	0	6	5

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.