

National Institute of Technology Calicut

Curriculum of B. Tech. Degree programme in **Mechanical Engineering** (for 2006 admissions)

	Code	Title	L	T	P	Cr
	S1					
1	MAU101	Mathematics I	3	0	0	3
2	SHU101	Physics I	2	0	0	2
3	ZZU101	Engineering Mechanics I	2	1	0	3
4	ZZU103	Engineering Graphics	1	0	3	3
5	SHU106	Chemistry	2	0	2	2
6	SHU11/ CSU101	Professional Communication / Computer programming	3	0	0	3
7	ZZU191/ ZZU192	Workshop Practice I / Workshop Practice II	0	0	3	2
8	SHU191/ SHU192	Physics Lab / Chemistry Lab	0	0	2	1
9	ZZU193/ ZZU194/ ZZU195	Ph. Edn (1Cr), value Edn (1 Cr), NSS (1 Cr)	-	-	-	3
		Total				19 +3

	Code	Title	L	T	P	Cr
	S2					
1	MAU102	Mathematics II	3	0	0	3
2	SHU102	Physics II	3	0	0	3
3	ZZU102	Engineering Mechanics II	2	1	0	3
4	EEU102	Basic Electrical Engineering	3	0	0	3
5	ECU101	Basic Electronics Engineering	2	1	0	3
6	SHU111/CSU101	Professional Communication / Computer Programming	3	0	0	3
7	ZZU191/ ZZU192	Workshop Practice 1 / Workshop Practice 11	0	0	3	2
8	SHU191/ SHU192	Physics Lab / Chemistry Lab	0	0	2	1
		TOTAL				21

	Code	Title	L	T	P	Cr
	S3					
1	MAU201	Mathematics III	3	0	0	3
2	EEG201	Electrical Measurements & Machines	3	0	0	3
3	MEU201	Mechanics of Fluids	3	1	0	3
4	MEU202	Elements of Solid Mechanics	3	1	0	3
5	MEV203	Materials Science and Metallurgy	3	0	0	3
6	MEU204	Machine Drawing	0	0	3	2
7	EEG291	Electrical Measurements & Machines Lab	0	0	3	2
8	CEG291	Strength of Materials Lab	0	0	3	2
		TOTAL				21

	Code	Title	L	T	P	Cr
	S4					
1	MAU202	Mathematics IV	3	0	0	3
2	MEU211	Thermodynamics	3	1	0	3
3	MEU213	Fluid Machinery	3	0	0	3
4	MEU214	Advanced Mechanics of Solids	3	1	0	3
5	MEV216	Manufacturing Science	3	0	0	3
6	MEV217	Metrology and Instrumentation	3	0	0	3
7	MEU292	Fluid Mechanics & Fluid Machinery Lab	0	0	3	2
8	MEV294	Production Engineering Lab I	0	0	3	2
		TOTAL				22

	Code	Title	L	T	P	Cr
	S5					
1	MEV301	Principles of Management	3	0	0	3
2	MEU302	Heat and Mass Transfer	3	1	0	3
3	ZZU301	Environmental Studies	3	0	0	3
4	MEV303	Machining Science and Machine Tools	3	1	0	3
5	MEU304	Mechanics of Machinery	3	0	0	3
6		Elective I	3	0	0	3
7	MEV393	Metrology and Instrumentation Lab	0	0	3	2
8	MEV394	Production Engineering Lab II	0	0	3	2
		TOTAL				22

	Code	Title	L	T	P	Cr
	S6					
1	MEU311	Dynamics of Machinery	3	1	0	3
2	MEU312	Thermal Engineering I	3	0	0	3
3	MEV314	CAD/CAM	3	0	0	3
4	MEV316	Management of Production Systems	3	1	0	3
5		Elective II	3	0	0	3
6		Elective III	3	0	0	3
7	MEU394	Heat Transfer Lab	0	0	3	2
8	MEU398	Industrial Training/Mini Project	0	0	3	1
		TOTAL				21

	Code	Title	L	T	P	Cr
	S7					
1	MEV401	Operations Research	3	1	0	3
2	MEU402	Machine Design - I	3	0	0	3
3	MEU403	Gas Dynamics	3	1	0	3
4		Elective IV	3	0	0	3
5		Elective V	3	0	0	3
6		Elective VI	3	0	0	3
7	MEU491	Thermal Engineering Laboratory	0	0	3	2
8	MEV494	CAD/CAM Laboratory	0	0	3	2
9	MEU498	Project	0	0	3	3
		TOTAL				25

	Code	Title	L	T	P	Cr
	S8					
1	MEU411	Machine Design - II	3	1	0	3
2	MEU412	Thermal Engg. II	3	1	0	3
3	SHU417	Industrial Economics	3	0	0	3
4		Elective - VII	3	0	0	3
5		Elective - VIII	3	0	0	3
6	MEU493	Seminar	0	0	3	1
7	MEU499	Project	0	0	6	5
		TOTAL				21

	Electives				
1	MEU321	Unconventional Energy Systems			
2	MEV323	Introduction to Marketing			
3	MEV324	Design and Analysis of Information Systems			
4	MEV330	Design for Manufacturability			
5	MEU331	Computational Methods in Engineering (Global)			
6	MEU322	Introduction to Finite Element Methods (Global)			
7	MEU325	Experimental Stress Analysis			
8	MEU326	Fluid Power Control			
9	MEV328	Technology Management (Global)			
10	MEU329	Theory of Metal Forming			
11	MEU332	Control System Engineering			
12	MEV333	Quality Engineering and Management			
13	MEV334	Work Design and Ergonomics			
14	MEU335	Advanced Thermodynamics			
15	MEU337	Nonlinear Dynamics and Chaos (Global)			
16	MEV421	Mechanical Behaviour and Testing of Materials			
17	MEU423	Automobile Engineering			
18	MEU424	Industrial Tribology			
19	MEV425	Supply chain Management (Global)			
20	MEV426	Cost Analysis and Control (Global)			
21	MEU427	Aerodynamics			
22	MEV428	Introduction to Computer Graphics (Global)			
23	MEV429	Human Behaviour in Organisation (Global)			
24	MEV437	Manufacturing Planning and Control			
25	MEU446	Heating Ventilation and Air Conditioning			
26	MEU449	Vehicle Dynamics			
27	MEV403	Introduction to Mechatronics			
28	MEV430	Consumer Psychology in Marketing			
29	MEV439	Powder Metallurgy			
30	MEU440	Refrigerating and Air Conditioning Systems			
31	MEV441	Accounting and Finance for Engineers			
32	MEV442	Introduction to Robotics (Global)			
33	MEV443	Discrete Event System Simulation			
34	MEV444	Management of Human Resources			