

National Institute of Technology Calicut

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

	Code	Title	L	T	P	Cr
	S1					
1	MAU101	Mathematics I	3	1	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	1	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 I / Workshop Practice II	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	MEU202	Elements of Solid Mechanics	3	1	0	3
3	MEV203	Materials Science and Metallurgy	3	0	0	3
4	EEG201	Electrical Measurements and Machines	3	0	0	3
5	MEU204	Machine Drawing	0	0	3	2
6	MEU205	Fluid Mechanics and Machinery	3	1	0	3
7	MEV291	Production Technology Lab I	0	0	3	2
8	MEU292	Fluid Mechanics and Fluid Machinery Laboratory	0	0	3	2
		TOTAL				21

	Code	Title	L	T	P	Cr
	S4					
1	MAU202	Mathematics IV	3	0	0	3
2	MEU212	Theory of Machines - I	3	0	0	3
3	MEU215	Thermodynamics and Heat Transfer	3	0	0	3
4	MEV214	Metrology and Computer Aided Inspection	3	0	0	3
5	MEV215	Metal Casting and Joining	3	1	0	3
6	MEU218	Theory of Elasticity and Plasticity	3	1	0	3
7	CEG291	Strength of Materials Laboratory	0	0	3	2
8	MEV293	Metrology and Instrumentation Laboratory	0	0	3	2
		TOTAL				22

	Code	Title	L	T	P	Cr
	S5					
1	MEV301	Principles of Management	3	0	0	3
2	ZZU301	Environmental Studies	3	0	0	3
3	MEV302	CAD/CAM/CIM	3	1	0	3
4	MEU303	Thermal Engineering	3	0	0	3
5	MEU305	Theory of Machines - II	3	1	0	3
6		Elective I	3	0	0	3
7	MEV391	Production Technology Lab II	0	0	3	2
8	MEU392	Thermal Engineering Laboratory	0	0	3	2
		TOTAL				22

	Code	Title	L	T	P	Cr
	S6					
1	MEV311	Machine Tools	3	0	0	3
2	MEV312	Production Management	4	0	0	4
3	MEV313	Quantitative Techniques for Executive Decisions	3	0	0	3
4	MEU315	Design of Machine Elements	4	0	0	4
5		Elective II	3	0	0	3
6		Elective III	3	0	0	3
7	MEV392	CAD/CAM/CIM Laboratory	0	0	3	2
8	MEV398	Mini Project /Industrial Training	0	0	3	1
		TOTAL				23

	Code	Title	L	T	P	Cr
	S7					
1	MEV402	Theory of Metal Cutting	4	0	0	4
2	MEV403	Introduction to Mechatronics	3	1	0	3
3		Elective IV	3	0	0	3
4		Elective V	3	0	0	3
5		Elective VI	3	0	0	3
6	MEV491	Management Science Laboratory	0	0	3	2
7	MEV492	Metal Cutting Laboratory	0	0	3	2
8	MEV498	Project	0	0	3	3
		TOTAL				23

	Code	Title	L	T	P	Cr
	S8					
1	MEV411	Industrial Engineering	3	1	0	3
2	MEV412	Tool Engineering and Design	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	MEV493	Seminar	0	0	3	1
7	MEV499	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	MEV327	Human Factors in Engineering and Design				
10	MEV328	Technology Management (Global)				
11	MEU329	Theory of Metal Forming				
12	MEU337	Nonlinear Dynamics and Chaos (Global)				
13	MEV421	Mechanical Behaviour and Testing of Materials				
14	MEU423	Automobile Engineering				
15	MEU424	Industrial Tribology				
16	MEV425	Supply Chain Management (Global)				
17	MEV426	Cost Analysis and Control (Global)				
18	MEU427	Aerodynamics				
19	MEV428	Introduction to Computer Graphics (Global)				
20	MEV429	Human Behaviour in Organization (Global)				
21	MEV433	Quality Planning and Analysis				
22	MEV437	Manufacturing Planning and Control				
23	MEV430	Consumer Psychology in Marketing				
24	MEV439	Powder Metallurgy				
25	MEV441	Accounting and Finance for Engineers				
26	MEV442	Introduction to Robotics (Global)				
27	MEV443	Discrete Event System Simulation				
28	MEV444	Management of Human Resources				