

Curriculum for *B.Tech. Programs*



॥ त्वं ज्ञानमयो विज्ञानमयोऽसि ॥

Indian Institute of Technology Jodhpur

Proposed Curriculum

B. Tech. Mechanical Engineering

Cat.	Course Title	L-T-P	Credits		Cat.	Course Title	L-T-P	Credits
I Semester					II Semester			
H	ME111 System Exploration- Drawing	3-0-3	4		H	ME121 System Exploration- Workshop	3-0-3	4
H	CS111 Computer Programming	3-1-3	5		H	EE121 Basic Electronics Engineering	3-1-3	5
B	MA111 Linear Algebra and Calculus	4-1-0	5		H	ME122 Engineering Mechanics	3-1-3	5
B	CY211 Chemistry	3-0-3	4		B	MA121 Complex Analysis & Differential Equation	4-1-0	5
C	ME112 Engineering Materials	3-0-3	4		C	ME123 Fluid Mechanics	3-0-3	4
L	HS111 English/ Foreign Language	3-0-0	3		L	HS211 Rights, Responsibility, Law & Constitution	3-0-0	3
S	PE111 Physical Exercises I		0		S	PE121 Physical Exercise II		0
Total		33	25		Total		34	26
III Semester					IV Semester			
H	EE221 Basic Electrical Engineering	3-1-3	5		H	ME221 Manufacturing Technology	3-0-3	4
B	PH111 Electromagnetism and Optics	3-1-3	5		B	MA221 Probability Statistics and Random Processes	4-1-0	5
B	ME211 Thermodynamics	3-1-0	4		C	ME222 Kinematics of Mechanism and Machines	3-0-3	4
C	ME213 Mechatronics	3-0-3	4		C	ME223 Heat and Mass Transfer	3-0-3	4
C	ME214 Mechanics of Solids	3-0-3	4		P	ME298 B.Tech. Project	0-0-9	3
L	HS211 Economics	3-0-0	3		L	HS221 Management	3-0-0	3
Total		33	25		Total		35	23
V Semester					VI Semester			
C	ME311 Dynamics of Machines & Mechanism	3-0-3	4		C	ME321 Refrigeration and Air Conditioning	3-0-3	4
C	ME312 IC Engines	3-0-3	4		C	ME322 Turbomachinery	3-0-3	4
C	ME313 Machining Science	3-0-3	4		C	ME323 Design of Machine Elements	3-0-3	4
C	ME314 Metrology	3-0-3	4		C	ME324 Industrial Engineering	3-0-3	4
P	ME398 B.Tech. Project	0-0-9	3		P	ME399 B.Tech. Project	0-0-9	3
L	HS311 Psychology	3-0-0	3		L	HS321 Writing in Newspaper Columns	3-0-0	3
Total		36	22		Total		36	22
VII Semester					VIII Semester			
E	Elective 1	3-0-0	3		E	Elective 4	3-0-0	3
E	Elective 2	3-0-0	3		E	Elective 5	3-0-0	3
E	Elective 3	3-0-0	3		E	Elective 6	3-0-0	3
P	ME498 B.Tech. Project	0-0-18	6		P	ME499 B.Tech. Project	0-0-21	7
L	HS411 Leadership	3-0-0	3		L	HS421 Development of India	3-0-0	3
Total		30	18		Total		30	19
GRAND TOTAL							270	180

S.No.	Category	Course Category Title	Total Courses	Total Credits
1	H	Hands-on Experience	7	32
2	B	Basics	6	28
3	C	Compulsory	14	56
4	E	Electives	6	18
5	P	Hands-On Project	5	22
6	L	Life Skills	8	24
7	S	Games & Sports/Social Service	2	0
Total			48	180

Note: The L-T-P-C calculations will be as per the B.Tech. regulations for students enrolled before and after July 2014. This document will be updated for final credit calculations soon.