

Curriculum for *B.Tech. Programs*



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Indian Institute of Technology Jodhpur

Proposed Curriculum B. Tech. Electrical 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	PH111 Electromagnetism and Optics	3-1-3	5		B	MA121 Complex Analysis & Differential Equation	4-1-0	5	
C	EE111 Physics of Semiconductor Devices	3-0-0	3		C	EE122 Electromagnetic Theory	3-1-0	4	
L	HS111 English/Foreign Language	3-0-0	3		L	HS121 Right, Responsibilities, Law and Constitution	3-0-0	3	
S	PE111 Physical Exercises I		0		S	PE121 Physical Exercise II		0	
Total			31	25	Total			32	26
III Semester					IV Semester				
H	EE221 Basic Electrical Engineering	3-1-3	5		H	EE221 Electrical Machines	3-0-3	4	
B	CY211 Chemistry	3-0-3	4		B	MA221 Probability Statistics and Random Processes	4-1-0	5	
B	ME211 Thermodynamics	3-1-0	4		C	EE222 Digital Logic and Design	3-0-3	4	
C	EE212 Circuit Theory	3-1-0	4		C	EE223 Power System	3-0-3	4	
C	EE213 Signals and Systems	3-1-0	4		P	BEE298 .Tech. Project	0-0-9	3	
L	HS211 Economics	3-0-0	3		L	HS221 Management	3-0-0	3	
Total			28	24	Total			35	23
V Semester					VI Semester				
C	EE311 Power Electronics	3-0-3	4		C	EE321 Information Theory and Coding	3-1-0	4	
C	EE312 Microprocessors and Microcontrollers	3-0-3	4		C	EE322 Digital Signal Processing	3-1-0	4	
C	EE313 Communication System	3-1-0	4		C	EE323 Microwave Engineering	3-0-0	3	
C	EE314 Analog Electronics	3-1-0	4		C	EE324 Control Systems	3-0-3	4	
P	EE398 B.Tech. Project	0-0-9	3		P	EE399 B.Tech. Project	0-0-12	4	
L	HS311 Psychology	3-0-0	3		L	HS321 Writing in Newspaper Column	3-0-0	3	
Total			32	22	Total			32	22
VII Semester					VIII Semester				
E	Elective	3-0-0	3		E	Elective	3-0-0	3	
E	Elective	3-0-0	3		E	Elective	3-0-0	3	
E	Elective	3-0-0	3		E	Elective	3-0-0	3	
P	EE498 B.Tech. Project	0-0-21	7		P	EE499 B.Tech. Project	0-0-21	7	
L	HS411 Leadership	3-0-0	3		L	HS421 Development of India	3-0-0	3	
Total			33	19	Total			33	19
GRAND TOTAL								256	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	54
4	E	Electives	6	18
5	P	Hands-On Project	5	24
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.