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Bachelor of Technology Program in Computer Science & Engineering

July 2016

Indian Institute of Technology Jodhpur

**Bachelor of Technology (B.Tech.) Program in
Computer Science & Engineering
2016
Curriculum**

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	PH111 Electromagnetism and Optics	3-1-3	5	H	ME122 Engineering Mechanics	3-1-3	5		
B	MA111 Linear Algebra and Calculus	4-1-0	5	B	MA121 Complex Analysis & Differential Equation	4-1-0	5		
B	CY211 Chemistry	3-0-3	4	C	CS112 Discrete Mathematics	3-1-0	4		
L	HS111 English / Foreign Language	3-0-0	3	L	HS121 Rights, Responsibilities, Law and Constitution	3-0-0	3		
S	PE111 Physical Exercises I		0	S	PE121 Physical Exercise II		0		
Total			34	26	Total			32	26
III Semester				IV Semester					
H	EE211 Basic Electrical Engineering	3-1-3	5	B	MA221 Probability Statistics and Random Processes	4-1-0	5		
H	CS211 Digital Logic and Design	3-0-3	4	C	CS221 Computer Organization and Architecture	3-0-0	3		
C	CS121 Data Structures and Algorithms	3-1-3	5	C	CS222 Theory of Computation	3-0-0	3		
C	CS212 Object Oriented Analysis and Design	3-0-3	4	C	CS223 Software Engineering	3-0-3	4		
C	EE213 Signals and Systems	3-1-0	4	P	CS299 B. Tech. Project	0-0-9	3		
L	HS211 Principles of Economics	3-0-0	3	L	HS221 Principles of Management	3-0-0	3		
Total			33	25	Total			29	21
V Semester				VI Semester					
C	CS311 Data Communication	3-1-0	4	C	CS321 Computer Networks	3-0-3	4		
C	CS312 Compiler Design	3-0-3	4	C	CS322 Database Systems	3-0-0	3		
C	CS313 Operating Systems	3-0-3	4	C	CS323 Artificial Intelligence	3-0-0	3		
C	CS314 Algorithm Design and Analysis	3-0-0	3	E	Elective	3-0-0	3		
P	CS398 B. Tech. Project	0-0-12	4	P	CS399 B. Tech. Project	0-0-12	4		
L	HS311 Principles of Psychology	3-0-0	3	L	HS321 Culture, Art and Heritage	3-0-0	3		
Total			34	22	Total			30	20
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	CS498 B. Tech. Project	0-0-24	8	P	CS499 B. Tech. Project	0-0-24	8		
L	HS411 Basics of Leadership	3-0-0	3	L	HS421 Role of Technology in the Development of India	3-0-0	3		
Total			36	20	Total			36	20
GRAND TOTAL							264	180	

S. No.	Category	Course Category Title	Total Courses	Total Credits
1	H	Hands-on Experience	7	32
2	B	Basics	5	24
3	C	Technology Compulsory	14	52
4	E	Electives	7	21
5	P	Hands-on Project	5	27
6	L	Life Skills	8	24
7	S	Games & Sports/Social Service	2	0
Total			48	180