



BIRLA INSTITUTE OF TECHNOLOGY
MESRA, RANCHI – 835215, INDIA
Course Structure Session - 2016
UNDERGRADUATE (Full Time)

Program : **BACHELOR OF ENGINEERING**
Branch : **B.E. INFORMATION TECHNOLOGY**

Semester : 1

Total Credits: 29

Subject Code	Subject Title	Credit
HU1101	TECHNICAL ENGLISH	3.00
MA1201	ENGINEERING MATHEMATICS	4.00
PH1201	PHYSICS	4.00
EE2201	PRINCIPLES OF ELECTRICAL ENGG	4.00
CH1401	ENGINEERING CHEMISTRY	3.00
ME1202	ENGINEERING GRAPHICS	3.00
CS1302	FUNDAMENTAL OF UNIX & C PROGRAMMING	3.00
PE1202	WORKSHOP PRACTICE	2.00
PH1202	PHYSICS LAB	2.00
Activity	(CHOICE FOR ONLY ONE)	
GA1002	NCC	1.00
GA1004	NSS	1.00
GA1006	PT & GAMES	1.00
GA1008	CREATIVE ARTS	1.00



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Semester : 2

Total Credits: 30

Subject Code	Subject Title	Credit
AM1201	ENGINEERING MECHANICS	4.00
CH2203	ENVIRONMENTAL SCIENCE	3.00
CS2301	FUNDAMENTAL OF DATA STRUCTURE	4.00
EC2001	PRINCIPLES OF ELECTRONICS ENGINEERING	3.00
MA2201	ADVANCE ENGINEERING MATHEMATICS	4.00
ME2001	PRINCIPLES OF MECHANICAL ENGINEERING	3.00
CH1402	CHEMISTRY LAB	2.00
CS2302	DATA STRUCTURE LAB	2.00
EC2002	BASIC ELECTRONICS ENGINEERING LAB	2.00
EE3202	BASIC ELECTRICAL ENGINEERING LAB	2.00
Activity	(CHOICE FOR ONLY ONE)	
GA2002	NCC	1.00
GA2004	NSS	1.00
GA2006	PT & GAMES	1.00
GA2008	CREATIVE ARTS	1.00



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Semester : 3

Total Credits: 22

Subject Code	Subject Title	Credit
IT3021	DISCRETE MATHEMATICS AND GRAPH THEORY	3.00
IT3023	JAVA PROGRAMMING	3.00
EC3201	DIGITAL ELECTRONICS	4.00
IT3025	COMPUTER ORGANIZATION AND ARCHITECTURE	4.00
IT3024	JAVA PROGRAMMING LAB	2.00
Activity	(CHOICE FOR ONLY ONE)	
GA3002	NCC	1.00
GA3004	NSS	1.00
GA3006	PT & GAMES	1.00
GA3008	CREATIVE ARTS	1.00
Breadth Paper	(CHOICE FOR ONLY ONE)	
HU4001	FRENCH	3.00
HU4003	GERMAN	3.00
Sessionals	(CHOICE FOR ONLY ONE)	
AM2202	ENGINEERING MECHANICS LAB	2.00



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Semester : 4

Total Credits: 23

Subject Code	Subject Title	Credit
BT3021	BIOLOGICAL SCIENCE	3.00
IT4021	DATABASE SYSTEM CONCEPTS	4.00
IT4023	OPERATING SYSTEM CONCEPTS	3.00
IT4025	THEORY OF COMPUTATIONS	3.00
IT4027	SCIENTIFIC COMPUTING	3.00
IT4022	DATABASE SYSTEM LAB	2.00
IT4024	OPERATING SYSTEM LAB	2.00
IT4028	SCIENTIFIC COMPUTING LAB	2.00
Activity	(CHOICE FOR ONLY ONE)	
GA4002	NCC	1.00
GA4004	NSS	1.00
GA4006	PT & GAMES	1.00
GA4008	CREATIVE ARTS	1.00



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Semester : 5

Total Credits: 23

Subject Code	Subject Title	Credit
IT5021	DATA COMMUNICATIONS	3.00
IT5023	SOFTWARE ENGINEERING PRINCIPLES	4.00
IT5025	PRINCIPLES OF SOFT COMPUTING	3.00
IT5027	DESIGN OF COMPUTER ALGORITHMS	4.00
IT5024	SOFTWARE ENGINEERING PRINCIPLES LAB	2.00
IT5026	PRINCIPLES OF SOFT COMPUTING LAB	2.00
IT5028	COMPUTER ALGORITHMS LAB	2.00
Breadth Paper (CHOICE FOR ONLY ONE)		
MSH1131	PRINCIPLES OF MANAGEMENT	3.00
PE5009	INDUSTRIAL ORGANIZATION AND MANAGEMENT	3.00
MSH1125	ORGANISATION BEHAVIOUR	3.00
PE5011	PROJECT ENGINEERING	3.00



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Semester : 6

Total Credits: 22

Subject Code	Subject Title	Credit
IT6021	COMMUNICATION THEORY	4.00
IT6023	COMPUTER NETWORK AND SECURITY	3.00
IT6025	INFORMATION & CODING THEORY	3.00
IT6027	OPTIMIZATION TECHNIQUES	3.00
IT6022	COMMUNICATION SYSTEM LAB	2.00
IT6024	NETWORK SECURITY LAB	2.00
IT6026	INFORMATION & CODING THEORY LAB	2.00
Elective - 1	(CHOICE FOR ONLY ONE)	
MSH1115	HUMAN RESOURCE MANAGEMENT	3.00
MSH1121	MARKETING MANAGEMENT	3.00
MSH1123	OPERATION RESEARCH	3.00
MSH1137	ECONOMICS	3.00
PE6009	ENGINEERING ECONOMY	3.00



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Semester : 7

Total Credits: 24

Subject Code	Subject Title	Credit
IT8039	COMPUTER GRAPHICS & MULTIMEDIA	3.00
IT7021	DATA MINING CONCEPTS AND TECHNIQUES	3.00
IT7041	PARALLEL & DISTRIBUTED COMPUTING	3.00
IT7043	COMPILER DESIGN	3.00
IT7022	DATA MINING CONCEPTS AND TECHNIQUES LAB	2.00
IT7027	DIGITAL IMAGE PROCESSING	3.00
IT7028	DIGITAL IMAGE PROCESSING LAB	2.00
IT7044	COMPILER DESIGN LAB	2.00
Breadth Paper (CHOICE FOR ONLY ONE)		
MSH1117	FINANCIAL MANAGEMENT	3.00
MSH1109	ENTREPRENEURSHIP AND SMALL BUSINESS MANAGEMENT	3.00
MSH1103	BUSINESS ETHICS	3.00



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Semester : 8

Total Credits: 9

Subject Code	Subject Title	Credit
IT8020	PROJECT	6.00
Elective - 1	(CHOICE FOR ONLY ONE)	
IT8039	COMPUTER GRAPHICS & MULTIMEDIA	3.00