



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

Program : **BACHELOR OF ENGINEERING**
Branch : **CHEMICAL ENGG- PLASTIC & POLYM**

Semester : 1

Total Credits: 29

Subject Code	Subject Title	Credit
AM1201	ENGINEERING MECHANICS	4.00
CH1401	ENGINEERING CHEMISTRY	3.00
EC2001	PRINCIPLES OF ELECTRONICS ENGINEERING	3.00
MA1201	ENGINEERING MATHEMATICS	4.00
PH1201	PHYSICS	4.00
CH1402	CHEMISTRY LAB	2.00
CS1302	FUNDAMENTAL OF UNIX & C PROGRAMMING	3.00
EC2002	BASIC ELECTRONICS ENGINEERING LAB	2.00
ME1202	ENGINEERING GRAPHICS	3.00
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
CH2203	ENVIRONMENTAL SCIENCE	3.00
CS2301	FUNDAMENTAL OF DATA STRUCTURE	4.00
EE2201	PRINCIPLES OF ELECTRICAL ENGG	4.00
HU1101	TECHNICAL ENGLISH	3.00
MA2201	ADVANCE ENGINEERING MATHEMATICS	4.00
ME2001	PRINCIPLES OF MECHANICAL ENGINEERING	3.00
AM2202	ENGINEERING MECHANICS LAB	2.00
CS2302	DATA STRUCTURE LAB	2.00
PE1202	WORKSHOP PRACTICE	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: 24

Subject Code	Subject Title	Credit
CL3001	FLUID MECHANICS	3.00
CL3003	CHEMICAL ENGINEERING THERMODYNAMICS	4.00
CL3005	PROCESS CALCULATIONS AND MECHANICAL OPERATIONS IN CHEMICAL ENGG.	4.00
ME3007	STRENGTH OF MATERIALS	3.00
ME3008	STRENGTH OF MATERIALS LAB	2.00
CL3004	INSTRUMENTAL ANALYSIS 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)	
BT3021	BIOLOGICAL SCIENCE	3.00
Sessionals	(CHOICE FOR ONLY ONE)	
EE3202	BASIC ELECTRICAL ENGINEERING LAB	2.00



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Semester : 4

Total Credits: 23

Subject Code	Subject Title	Credit
CL4001	HEAT TRANSFER OPERATIONS	4.00
CL4005	NUMERICAL METHODS FOR CHEMICAL ENGINEERS	3.00
PC4001	MACROMOLECULAR SCIENCE-I	3.00
PC4003	POLYMER TECHNOLOGY-I	3.00
PC4004	MACROMOLECULAR SCIENCE LAB	2.00
CL4002	CHEMICAL ENGINEERING LAB I	2.00
CL4004	NUMERICAL METHODS FOR CHEMICAL ENGG. 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
Elective - 1	(CHOICE FOR ONLY ONE)	
HU4001	FRENCH	3.00
HU4003	GERMAN	3.00



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Semester : 5

Total Credits: 22

Subject Code	Subject Title	Credit
CL5001	MASS TRANSFER OPERATIONS	4.00
CL5005	REACTION ENGG	3.00
PC5001	POLYMER TECHNOLOGY-II	3.00
PC5003	MACROMOLECULAR SCIENCE-II	3.00
CL5002	CHEMICAL ENGINEERING LAB-II	2.00
PC5002	COMPOUNDING AND TESTING LAB	2.00
CL5006	REACTION ENGG LAB	2.00
Breadth Paper (CHOICE FOR ONLY ONE)		
MSH1125	ORGANISATION BEHAVIOUR	3.00
MSH1131	PRINCIPLES OF MANAGEMENT	3.00
PE5009	INDUSTRIAL ORGANIZATION AND MANAGEMENT	3.00
PE5011	PROJECT ENGINEERING	3.00



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Semester : 6

Total Credits: 24

Subject Code	Subject Title	Credit
CL6001	BIOCHEMICAL ENGG	3.00
CL6003	INDUSTRIAL CHEMICAL PROCESSES	3.00
PC6001	POLYMER BLENDS AND COMPOSITE	3.00
PC6003	ELASTOMER TECHNOLOGY	3.00
PC6005	POLYMER PROCESSING	3.00
PC6002	CAE LAB-I	2.00
PC6004	ELASTOMER TECHNOLOGY LAB .	2.00
PC6006	POLYMER PROCESSING LAB	2.00



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Semester : 7

Total Credits: 21

Subject Code	Subject Title	Credit
CL7001	PROCESS CONTROL AND INSTRUMENTATION	3.00
CL7003	PROCESS MODELLING SIMULATION & OPTIMIZATION	3.00
CL7005	PROJECT ENGG & ECONOMICS FOR CHEMICAL ENGINEERS	3.00
PC7002	CAE LAB-II	2.00
PC7004	DIE AND MOULD DESIGN LAB	2.00
PC7006	POLYMER BLENDS AND COMPOSITE LAB	2.00
Elective - 1	(CHOICE FOR ONLY ONE)	
PC7003	BIOMATERIALS	3.00
PC7005	PLASTIC & ENVIRONMENT	3.00
Elective - 2	(CHOICE FOR ONLY ONE)	
CL7035	COLLOID & INTERFACIAL ENGG	3.00
PC7015	SURFACE COATING AND ADHESIVE TECHNOLOGY	3.00



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Semester : 8

Total Credits: 9

Subject Code	Subject Title	Credit
CL8002	PROJECT & COMPREHENSIVE VIVA	8.00