

**1st Semester**

Course Code	Credit	Course Title	Course Basket for CSE	Course Basket for EE	Course Basket for ME	Course Basket for CE	Remarks
HS-102(1)	1	ART AND ARCHITECTURE	(1D_01)Creative Understanding(1)	(1D_01)Creative Understanding(1)	(1D_01)Creative Understanding(1)	(1D_01)Creative Understanding(1)	
HS-103(1)	1	DANCE & DRAMA	(1D_01)Creative Understanding(1)	(1D_01)Creative Understanding(1)	(1D_01)Creative Understanding(1)	(1D_01)Creative Understanding(1)	
HS-104(1)	1	MUSIC	(1D_01)Creative Understanding(1)	(1D_01)Creative Understanding(1)	(1D_01)Creative Understanding(1)	(1D_01)Creative Understanding(1)	
HS-105(3)	3	BASIC COMMUNICATION SKILLS	(1D_03)Communicative Competence(3)	(1D_03)Communicative Competence(3)	(1D_03)Communicative Competence(3)	(1D_03)Communicative Competence(3)	
HS-106(3)	3	ENGLISH - I	(1D_02)International Language Competence(3)	(1D_02)International Language Competence(3)	(1D_02)International Language Competence(3)	(1D_02)International Language Competence(3)	
HS-151(3)	3	INTRODUCTION TO LITERATURE	(1D_02)International Language Competence(3)	(1D_02)International Language Competence(3)	(1D_02)International Language Competence(3)	(1D_02)International Language Competence(3)	Only to this Batch
HS-254(3)	3	INTRODUCTION TO EUROPEAN PHILOSOPHY	(2B)Humanities Ele(5)	(2B)Humanities Ele(5)	(2B)Humanities Ele(5)	(2B)Humanities Ele(5)	
HS-263(3)	3	POPULAR CULTURE IN MODERN INDIA: A HISTORICAL PERSPECTIVE	(2B)Humanities Ele(5)	(2B)Humanities Ele(5)	(2B)Humanities Ele(5)	(2B)Humanities Ele(5)	
HS-342(3)	3	GERMAN - I	(1D_02)International Language Competence(3)	(1D_02)International Language Competence(3)	(1D_02)International Language Competence(3)	(1D_02)International Language Competence(3)	
IC-101P(2)	2	REVERSE ENGINEERING	(1C)Design & Invo(6)	(1C)Design & Invo(6)	(1C)Design & Invo(6)	(1C)Design & Invo(6)	
IC-110(3)	3	ENGINEERING MATHEMATICS	(1A)Science(25)	(1A)Science(25)	(1A)Science(25)	(1A)Science(25)	
IC-140(4)	4	GRAPHICS FOR DESIGN	(1B)Comm. Engg.(42)	(1B)Comm. Engg.(42)	(1B)Comm. Engg.(42)	(1B)Comm. Engg.(42)	
IC-150(3)	3	COMPUTATION FOR ENGINEERS	(1B)Comm. Engg.(42)	(1B)Comm. Engg.(42)	(1B)Comm. Engg.(42)	(1B)Comm. Engg.(42)	
IC-150P(2)	2	COMPUTATION FOR ENGINEERS LAB	(1B)Comm. Engg.(42)	(1B)Comm. Engg.(42)	(1B)Comm. Engg.(42)	(1B)Comm. Engg.(42)	
IC-160(3)	3	ELECTRICAL SYSTEMS AROUND US	(1B)Comm. Engg.(42)	(1B)Comm. Engg.(42)	(1B)Comm. Engg.(42)	(1B)Comm. Engg.(42)	
IC-160P(2)	2	ELECTRICAL SYSTEMS AROUND US LAB	(1B)Comm. Engg.(42)	(1B)Comm. Engg.(42)	(1B)Comm. Engg.(42)	(1B)Comm. Engg.(42)	

**2nd Semester**

Course Code	Credit	Course Title	Course Basket for CSE	Course Basket for EE	Course Basket for ME	Course Basket for CE	Remarks
HS-202(3)	3	PRINCIPLES OF ECONOMICS	(1D_05)Managerial Competence(3)	(1D_05)Managerial Competence(3)	(1D_05)Managerial Competence(3)	(1D_05)Managerial Competence(3)	
HS-208(3)	3	ENGLISH - II	(1D_02)International Language Competence(3)	(1D_02)International Language Competence(3)	(1D_02)International Language Competence(3)	(1D_02)International Language Competence(3)	
HS-364(3)	3	MODERN CHINA: A HISTORICAL SURVEY	(2B)Humanities Ele(5)	(2B)Humanities Ele(5)	(2B)Humanities Ele(5)	(2B)Humanities Ele(5)	
IC-111(3)	3	LINEAR ALGEBRA	(1A)Science(25)	(1A)Science(25)	(1A)Science(25)	(1A)Science(25)	
IC-121(3)	3	MECHANICS OF PARTICLES AND WAVES	(1A)Science(25)	(1A)Science(25)	(1A)Science(25)	(1A)Science(25)	
IC-141(2)	2	PRODUCT REALIZATION TECHNOLOGY	(1B)Comm. Engg.(42)	(1B)Comm. Engg.(42)	(1B)Comm. Engg.(42)	(1B)Comm. Engg.(42)	
IC-141P(2)	2	PRODUCT REALIZATION TECHNOLOGY LAB	(1B)Comm. Engg.(42)	(1B)Comm. Engg.(42)	(1B)Comm. Engg.(42)	(1B)Comm. Engg.(42)	
IC-142(4)	4	ENGINEERING THERMODYNAMICS	(1B)Comm. Engg.(42)	(1B)Comm. Engg.(42)	(1B)Comm. Engg.(42)	(1B)Comm. Engg.(42)	
IC-161(3)	3	APPLIED ELECTRONICS	(1B)Comm. Engg.(42)	(1B)Comm. Engg.(42)	(1B)Comm. Engg.(42)	(1B)Comm. Engg.(42)	
IC-161P(2)	2	APPLIED ELECTRONICS LAB	(1B)Comm. Engg.(42)	(1B)Comm. Engg.(42)	(1B)Comm. Engg.(42)	(1B)Comm. Engg.(42)	

**3rd Semester**

Course Code	Credit	Course Title	Course Basket for CSE	Course Basket for EE	Course Basket for ME	Course Basket for CE	Remarks
CE-201(3)	3	SURVEYING: TRADITIONAL AND DIGITAL	(2C)Free Ele(13)	(2C)Free Ele(13)	(2C)Free Ele(13)	(3A)Discipline Core(30)	
CS-207(2)	2	APPLIED DATABASE PRACTICUM	(3A)Discipline Core(30)	(3B)Discipline Ele.(12)	(2C)Free Ele(13)	(2C)Free Ele(13)	
CS-208(4)	4	MATHEMATICAL FOUNDATIONS OF COMPUTER SCIENCE	(3A)Discipline Core(30)	(2C)Free Ele(13)	(2C)Free Ele(13)	(2C)Free Ele(13)	
IC-130(3)	3	APPLIED CHEMISTRY FOR ENGINEERS	(1A)Science(25)	(1A)Science(25)	(1A)Science(25)	(1A)Science(25)	
IC-130P(2)	2	CHEMISTRY PRACTICUM	(1A)Science(25)	(1A)Science(25)	(1A)Science(25)	(1A)Science(25)	
IC-136(3)	3	UNDERSTANDING BIOTECHNOLOGY AND ITS APPLICATIONS	(1A)Science(25)	(1A)Science(25)	(1A)Science(25)	(1A)Science(25)	
IC-221(3)	3	FOUNDATIONS OF ELECTRODYNAMICS	(1A)Science(25)	(1A)Science(25)	(1A)Science(25)	(1A)Science(25)	

Course Code	Credit	Course Title	Course Basket for CSE	Course Basket for EE	Course Basket for ME	Course Basket for CE	Remarks
IC-222P(2)	2	PHYSICS PRACTICUM	(1A)Science(25)	(1A)Science(25)	(1A)Science(25)	(1A)Science(25)	
IC-240(3)	3	MECHANICS OF RIGID BODIES	(1B)Comm. Engg.(42)	(1B)Comm. Engg.(42)	(1B)Comm. Engg.(42)	(1B)Comm. Engg.(42)	
IC-241(3)	3	MATERIALS SCIENCE FOR ENGINEERS	(1B)Comm. Engg.(42)	(1B)Comm. Engg.(42)	(1B)Comm. Engg.(42)	(1B)Comm. Engg.(42)	
IC-250(3)	3	PROGRAMMING AND DATA STRUCTURE PRACTICUM	(1B)Comm. Engg.(42)	(1B)Comm. Engg.(42)	(1B)Comm. Engg.(42)	(1B)Comm. Engg.(42)	
IC-260(3)	3	SIGNALS AND SYSTEMS	(1B)Comm. Engg.(42)	(1B)Comm. Engg.(42)	(1B)Comm. Engg.(42)	(1B)Comm. Engg.(42)	
ME-205(3)	3	MACHINE DRAWING	(2C)Free Ele(13)	(2C)Free Ele(13)	(3A)Discipline Core(30)	(2C)Free Ele(13)	
<b>4th Semester</b>							
Course Code	Credit	Course Title	Course Basket for CSE	Course Basket for EE	Course Basket for ME	Course Basket for CE	Remarks
CE-251(3)	3	HYDRAULICS ENGINEERING	(2C)Free Ele(13)	(2C)Free Ele(13)	(2C)Free Ele(13)	(3A)Discipline Core(30)	
CS-201(3)	3	COMPUTER ORGANIZATION	(3A)Discipline Core(30)	(3A)Discipline Core(30)	(2C)Free Ele(13)	(2C)Free Ele(13)	
CS-201P(1)	1	COMPUTER ORGANIZATION LABORATORY	(3A)Discipline Core(30)	(3A)Discipline Core(30)	(2C)Free Ele(13)	(2C)Free Ele(13)	
CS-202(4)	4	DATA STRUCTURE AND ALGORITHMS	(3A)Discipline Core(30)	(3B)Discipline Ele.(12)	(2C)Free Ele(13)	(2C)Free Ele(13)	
CS-592(2)	2	SELECTED TOPICS IN ALGORITHMS	(3B)Discipline Ele.(12)	(2C)Free Ele(13)	(2C)Free Ele(13)	(2C)Free Ele(13)	
EE-201(3)	3	ELECTROMECHANICS	(2C)Free Ele(13)	(3A)Discipline Core(30)	(3B)Discipline Ele.(12)	(2C)Free Ele(13)	
EE-201P(1)	1	ELECTROMECHANICS LAB	(2C)Free Ele(13)	(3A)Discipline Core(30)	(3B)Discipline Ele.(12)	(2C)Free Ele(13)	
EE-203(3)	3	NETWORK THEORY	(3B)Discipline Ele.(12)	(3A)Discipline Core(30)	(2C)Free Ele(13)	(2C)Free Ele(13)	
EE-208P(2)	2	DIGITAL SYSTEMS DESIGN PRACTICUM	(3B)Discipline Ele.(12)	(3A)Discipline Core(30)	(2C)Free Ele(13)	(2C)Free Ele(13)	
EE-301(3)	3	CONTROL SYSTEMS	(3B)Discipline Ele.(12)	(3A)Discipline Core(30)	(3B)Discipline Ele.(12)	(2C)Free Ele(13)	
EE-301P(1)	1	CONTROL SYSTEMS LABORATORY	(3B)Discipline Ele.(12)	(3A)Discipline Core(30)	(3B)Discipline Ele.(12)	(2C)Free Ele(13)	
EE-304(4)	4	COMMUNICATION THEORY	(3B)Discipline Ele.(12)	(3A)Discipline Core(30)	(2C)Free Ele(13)	(2C)Free Ele(13)	
HS-252(3)	3	INTRODUCTION TO PSYCHOLOGY	(1D_04)Social Competence(3)	(1D_04)Social Competence(3)	(1D_04)Social Competence(3)	(1D_04)Social Competence(3)	
HS-261(3)	3	THE INDIAN CONSTITUTION	(2B)Humanities Ele(5)	(2B)Humanities Ele(5)	(2B)Humanities Ele(5)	(2B)Humanities Ele(5)	
HS-450(3)	3	FINANCIAL MANAGEMENT	(1D_05)Managerial Competence(3)	(1D_05)Managerial Competence(3)	(1D_05)Managerial Competence(3)	(1D_05)Managerial Competence(3)	
IC-201P(4)	4	DESIGN PRACTICUM	(1C)Design & Invo(6)	(1C)Design & Invo(6)	(1C)Design & Invo(6)	(1C)Design & Invo(6)	
IC-210(3)	3	PROBABILITY, STATISTICS AND RANDOM PROCESSES	(1A)Science(25)	(1A)Science(25)	(1A)Science(25)	(1A)Science(25)	
IC-242(3)	3	CONTINUUM MECHANICS	(1B)Comm. Engg.(42)	(1B)Comm. Engg.(42)	(1B)Comm. Engg.(42)	(1B)Comm. Engg.(42)	
ME-210(3)	3	FLUID MECHANICS	(2C)Free Ele(13)	(2C)Free Ele(13)	(3A)Discipline Core(30)	(2C)Free Ele(13)	
<b>5th Semester</b>							
Course Code	Credit	Course Title	Course Basket for CSE	Course Basket for EE	Course Basket for ME	Course Basket for CE	Remarks
CE-301(4)	4	STRENGTH OF MATERIALS AND STRUCTURES	(2C)Free Ele(13)	(2C)Free Ele(13)	(2C)Free Ele(13)	(3A)Discipline Core(30)	
CE-302(4)	4	GEOTECHNICAL ENGINEERING	(2C)Free Ele(13)	(2C)Free Ele(13)	(2C)Free Ele(13)	(3A)Discipline Core(30)	
CE-303(3)	3	WATER RESOURCES ENGINEERING	(2C)Free Ele(13)	(2C)Free Ele(13)	(2C)Free Ele(13)	(3A)Discipline Core(30)	
CE-304P(1)	1	HYDRAULICS ENGINEERING LABORATORY	(2C)Free Ele(13)	(2C)Free Ele(13)	(2C)Free Ele(13)	(3A)Discipline Core(30)	
CE-305P(1)	1	ENVIRONMENT AND EARTH SCIENCE LAB	(2C)Free Ele(13)	(2C)Free Ele(13)	(2C)Free Ele(13)	(3A)Discipline Core(30)	
CE-352(3)	3	TRANSPORTATION ENGINEERING	(2C)Free Ele(13)	(2C)Free Ele(13)	(2C)Free Ele(13)	(3A)Discipline Core(30)	
CE-508(3)	3	PHOTO GEOLOGY AND PHOTOGRAMMETRY	(2C)Free Ele(13)	(2C)Free Ele(13)	(2C)Free Ele(13)	(3B)Discipline Ele.(12)	
CE-591(1)	1	SPECIAL TOPICS IN ATMOSPHERIC MODELLING	(2C)Free Ele(13)	(2C)Free Ele(13)	(2C)Free Ele(13)	(3B)Discipline Ele.(12)	
CS-304(3)	3	FORMAL LANGUAGES AND AUTOMATA THEORY	(3B)Discipline Ele.(12)	(3B)Discipline Ele.(12)	(2C)Free Ele(13)	(2C)Free Ele(13)	
CS-308(2)	2	LARGE APPLICATIONS PRACTICUM	(3A)Discipline Core(30)	(2C)Free Ele(13)	(2C)Free Ele(13)	(2C)Free Ele(13)	

Course Code	Credit	Course Title	Course Basket for CSE	Course Basket for EE	Course Basket for ME	Course Basket for CE	Remarks
CS-310(4)	4	INTRODUCTION TO COMMUNICATING DISTRIBUTED PROCESSES	(3A)Discipline Core(30)	(3B)Discipline Ele.(12)	(2C)Free Ele(13)	(2C)Free Ele(13)	
CS-545(3)	3	SOFTWARE DESIGNING PATTERNS	(3B)Discipline Ele.(12)	(2C)Free Ele(13)	(2C)Free Ele(13)	(2C)Free Ele(13)	
CS-562(3)	3	ARTIFICIAL INTELLIGENCE	(3B)Discipline Ele.(12)	(3B)Discipline Ele.(12)	(2C)Free Ele(13)	(2C)Free Ele(13)	
CS-601(4)	4	PROBABILITY AND RANDOM PROCESSES	(3B)Discipline Ele.(12)	(3B)Discipline Ele.(12)	(2C)Free Ele(13)	(2C)Free Ele(13)	
CS-669(4)	4	PATTERN RECOGNITION	(3B)Discipline Ele.(12)	(3B)Discipline Ele.(12)	(2C)Free Ele(13)	(2C)Free Ele(13)	
EE-305(4)	4	DIGITAL SIGNAL PROCESSING	(3B)Discipline Ele.(12)	(3B)Discipline Ele.(12)	(3B)Discipline Ele.(12)	(2C)Free Ele(13)	
EE-311(3)	3	DEVICE ELECTRONICS FOR INTEGRATED CIRCUITS	(2C)Free Ele(13)	(3A)Discipline Core(30)	(2C)Free Ele(13)	(2C)Free Ele(13)	
EE-312P(2)	2	MICRO ELECTRONICS CIRCUITS DESIGN PRACTICUM	(2C)Free Ele(13)	(3A)Discipline Core(30)	(2C)Free Ele(13)	(2C)Free Ele(13)	
EE-313(3)	3	MEASUREMENT AND INSTRUMENTATION	(2C)Free Ele(13)	(3B)Discipline Ele.(12)	(3B)Discipline Ele.(12)	(2C)Free Ele(13)	
EE-509(3)	3	LINEAR DYNAMICAL SYSTEMS	(2C)Free Ele(13)	(3B)Discipline Ele.(12)	(3B)Discipline Ele.(12)	(2C)Free Ele(13)	
EE-512(4)	4	CMOS ANALOG IC DESIGN	(2C)Free Ele(13)	(3B)Discipline Ele.(12)	(2C)Free Ele(13)	(2C)Free Ele(13)	
EE-516(4)	4	BIOMEDICAL SYSTEMS	(3B)Discipline Ele.(12)	(3B)Discipline Ele.(12)	(3B)Discipline Ele.(12)	(2C)Free Ele(13)	
HS-205(3)	3	FINANCIAL ACCOUNTING	(1D_05)Managerial Competence(3)	(1D_05)Managerial Competence(3)	(1D_05)Managerial Competence(3)	(1D_05)Managerial Competence(3)	
HS-344(3)	3	INTRODUCTION TO SOCIOLOGY	(1D_04)Social Competence(3)	(1D_04)Social Competence(3)	(1D_04)Social Competence(3)	(1D_04)Social Competence(3)	
HS-355(3)	3	INDIA THROUGH ITS EPICS	(2B)Humanities Ele(5)	(2B)Humanities Ele(5)	(2B)Humanities Ele(5)	(2B)Humanities Ele(5)	
HS-358(3)	3	SCIENCE WRITING	(1D_03)Communicative Competence(3)	(1D_03)Communicative Competence(3)	(1D_03)Communicative Competence(3)	(1D_03)Communicative Competence(3)	
HS-391(3)	3	INTRODUCTION TO WORLD HISTORY	(1D_04)Social Competence(3)	(1D_04)Social Competence(3)	(1D_04)Social Competence(3)	(1D_04)Social Competence(3)	
HS-403(3)	3	ORGANIZATIONAL BEHAVIOR	(1D_05)Managerial Competence(3)	(1D_05)Managerial Competence(3)	(1D_05)Managerial Competence(3)	(1D_05)Managerial Competence(3)	
HS-471(3)	3	CONTEMPORARY INDIA	(2B)Humanities Ele(5)	(2B)Humanities Ele(5)	(2B)Humanities Ele(5)	(2B)Humanities Ele(5)	
ME-206(3)	3	MECHANICS OF SOLIDS	(2C)Free Ele(13)	(2C)Free Ele(13)	(3A)Discipline Core(30)	(2C)Free Ele(13)	
ME-303(3)	3	HEAT TRANSFER	(2C)Free Ele(13)	(2C)Free Ele(13)	(3A)Discipline Core(30)	(2C)Free Ele(13)	
ME-308(3)	3	MANUFACTURING ENGINEERING	(2C)Free Ele(13)	(2C)Free Ele(13)	(3A)Discipline Core(30)	(2C)Free Ele(13)	
ME-311P(1)	1	DESIGN LAB - I	(2C)Free Ele(13)	(2C)Free Ele(13)	(3A)Discipline Core(30)	(2C)Free Ele(13)	
ME-351(3)	3	MANAGEMENT OF MANUFACTURING AND LOGISTIC SYSTEMS	(2C)Free Ele(13)	(2C)Free Ele(13)	(3B)Discipline Ele.(12)	(2C)Free Ele(13)	
ME-356(4)	4	PRINCIPLES OF ENERGY CONVERSION	(2C)Free Ele(13)	(2C)Free Ele(13)	(3B)Discipline Ele.(12)	(2C)Free Ele(13)	
ME-509(3)	3	NANO MANUFACTURING	(2C)Free Ele(13)	(2C)Free Ele(13)	(3B)Discipline Ele.(12)	(2C)Free Ele(13)	
<b>6th Semester</b>							
Course Code	Credit	Course Title	Course Basket for CSE	Course Basket for EE	Course Basket for ME	Course Basket for CE	Remarks
CE-351(3)	3	DESIGN OF REINFORCED CONCRETE STRUCTURES	(2C)Free Ele(13)	(2C)Free Ele(13)	(2C)Free Ele(13)	(3A)Discipline Core(30)	
CE-353P(1)	1	CIVIL ENGINEERING DRAWING	(2C)Free Ele(13)	(2C)Free Ele(13)	(2C)Free Ele(13)	(3A)Discipline Core(30)	
CE-354P(1)	1	BUILDING AND PAVEMENT MATERIALS LABORATORY	(2C)Free Ele(13)	(2C)Free Ele(13)	(2C)Free Ele(13)	(3A)Discipline Core(30)	
CE-355(3)	3	HYDROLOGY	(2C)Free Ele(13)	(2C)Free Ele(13)	(2C)Free Ele(13)	(3B)Discipline Ele.(12)	
CE-402(3)	3	GEOTECHNICAL ENGINEERING - II	(2C)Free Ele(13)	(2C)Free Ele(13)	(2C)Free Ele(13)	(3B)Discipline Ele.(12)	
CE-506(3)	3	ANALYSIS OF INDETERMINATE STRUCTURES	(2C)Free Ele(13)	(2C)Free Ele(13)	(2C)Free Ele(13)	(3B)Discipline Ele.(12)	
CS-302(4)	4	PARADIGMS OF PROGRAMMING	(3A)Discipline Core(30)	(2C)Free Ele(13)	(2C)Free Ele(13)	(2C)Free Ele(13)	
CS-307(2)	2	SYSTEMS PRACTICUM	(3A)Discipline Core(30)	(3B)Discipline Ele.(12)	(2C)Free Ele(13)	(2C)Free Ele(13)	
CS-309(4)	4	INFORMATION AND DATABASE SYSTEMS	(3A)Discipline Core(30)	(3B)Discipline Ele.(12)	(2C)Free Ele(13)	(2C)Free Ele(13)	

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CS-403(4)	4	ALGORITHM DESIGN AND ANALYSIS	(3B)Discipline Ele.(12)	(3B)Discipline Ele.(12)	(2C)Free Ele(13)	(2C)Free Ele(13)	
CS-522(3)	3	DISTRIBUTED ALGORITHMS	(3B)Discipline Ele.(12)	(2C)Free Ele(13)	(2C)Free Ele(13)	(2C)Free Ele(13)	
CS-591_05(1)	1	SPECIAL TOPICS IN COMPILERS	(3B)Discipline Ele.(12)	(2C)Free Ele(13)	(2C)Free Ele(13)	(2C)Free Ele(13)	
CS-606(3)	3	COMPUTATIONAL MODELING OF SOCIAL SYSTEMS	(3B)Discipline Ele.(12)	(2C)Free Ele(13)	(2C)Free Ele(13)	(2C)Free Ele(13)	
CS-671(4)	4	DEEP LEARNING AND APPLICATIONS	(3B)Discipline Ele.(12)	(3B)Discipline Ele.(12)	(2C)Free Ele(13)	(2C)Free Ele(13)	
DP-301P(4)	4	INTERACTIVE SOCIO-TECHNICAL PRACTICUM	(2A)Design & Invo (Including Project)(12)	(2A)Design & Invo (Including Project)(12)	(2A)Design & Invo (Including Project)(12)	(2A)Design & Invo (Including Project)(12)	
EE-303(4)	4	POWER SYSTEMS	(2C)Free Ele(13)	(3A)Discipline Core(30)	(2C)Free Ele(13)	(2C)Free Ele(13)	
EE-309(3)	3	POWER ELECTRONICS	(2C)Free Ele(13)	(3B)Discipline Ele.(12)	(2C)Free Ele(13)	(2C)Free Ele(13)	
EE-309P(1)	1	POWER ELECTRONICS LAB	(2C)Free Ele(13)	(3B)Discipline Ele.(12)	(2C)Free Ele(13)	(2C)Free Ele(13)	
EE-511(4)	4	COMPUTER VISION	(3B)Discipline Ele.(12)	(3B)Discipline Ele.(12)	(2C)Free Ele(13)	(2C)Free Ele(13)	
EE-529(4)	4	EMBEDDED SYSTEM	(2C)Free Ele(13)	(3B)Discipline Ele.(12)	(2C)Free Ele(13)	(2C)Free Ele(13)	
EE-618(3)	3	INDUSTRIAL PROCESS CONTROL	(2C)Free Ele(13)	(3B)Discipline Ele.(12)	(3B)Discipline Ele.(12)	(2C)Free Ele(13)	
EE-619(4)	4	MIXED SIGNAL VLSI DESIGN	(2C)Free Ele(13)	(3B)Discipline Ele.(12)	(2C)Free Ele(13)	(2C)Free Ele(13)	
HS-206(3)	3	PUBLIC SPEAKING AND DEBATING SKILLS	(1D_03)Communicative Competence(3)	(1D_03)Communicative Competence(3)	(1D_03)Communicative Competence(3)	(1D_03)Communicative Competence(3)	
HS-255(3)	3	INDIA SINCE INDEPENDENCE	(2B)Humanities Ele(5)	(2B)Humanities Ele(5)	(2B)Humanities Ele(5)	(2B)Humanities Ele(5)	
HS-304(3)	3	ORGANIZATIONAL MANAGEMENT	(1D_05)Managerial Competence(3)	(1D_05)Managerial Competence(3)	(1D_05)Managerial Competence(3)	(1D_05)Managerial Competence(3)	
HS-364(3)	3	MODERN CHINA:A HISTORICAL SURVEY	(2B)Humanities Ele(5)	(2B)Humanities Ele(5)	(2B)Humanities Ele(5)	(2B)Humanities Ele(5)	
HS-381(3)	3	INDIAN SOCIETY STRUCTURE AND CHANGE	(1D_04)Social Competence(3)	(1D_04)Social Competence(3)	(1D_04)Social Competence(3)	(1D_04)Social Competence(3)	
HS-481(3)	3	INTERNATIONAL ECONOMICS	(2B)Humanities Ele(5)	(2B)Humanities Ele(5)	(2B)Humanities Ele(5)	(2B)Humanities Ele(5)	
HS-591(1)	1	SELECTED TOPICS IN BUSINESS COMMUNICATION FOR ENGINEERS	(2B)Humanities Ele(5)	(2B)Humanities Ele(5)	(2B)Humanities Ele(5)	(2B)Humanities Ele(5)	
HS-616(3)	3	MANAGERIAL THINKING AND DECISION MAKING	(1D_05)Managerial Competence(3)	(1D_05)Managerial Competence(3)	(1D_05)Managerial Competence(3)	(1D_05)Managerial Competence(3)	
HS-650(3)	3	STATISTICAL METHODS	(2B)Humanities Ele(5)	(2B)Humanities Ele(5)	(2B)Humanities Ele(5)	(2B)Humanities Ele(5)	
MA-524(4)	4	PROBABILITY & STATISTICS	(3B)Discipline Ele.(12)	(3B)Discipline Ele.(12)	(2C)Free Ele(13)	(3B)Discipline Ele.(12)	
ME-307(3)	3	ENERGY CONVERSION DEVICES	(2C)Free Ele(13)	(3B)Discipline Ele.(12)	(3A)Discipline Core(30)	(2C)Free Ele(13)	
ME-309(4)	4	THEORY OF MACHINES	(2C)Free Ele(13)	(2C)Free Ele(13)	(3A)Discipline Core(30)	(2C)Free Ele(13)	
ME-312P(1)	1	DESIGN LAB II	(2C)Free Ele(13)	(2C)Free Ele(13)	(3A)Discipline Core(30)	(2C)Free Ele(13)	
ME-352(3)	3	FINITE ELEMENT METHODS IN ENGINEERING	(2C)Free Ele(13)	(2C)Free Ele(13)	(3B)Discipline Ele.(12)	(2C)Free Ele(13)	
ME-355(3)	3	INTERNAL COMBUSTION ENGINES	(2C)Free Ele(13)	(2C)Free Ele(13)	(3B)Discipline Ele.(12)	(2C)Free Ele(13)	
ME-451(3)	3	REFRIGERATION AND AIR CONDITIONING	(2C)Free Ele(13)	(2C)Free Ele(13)	(3B)Discipline Ele.(12)	(2C)Free Ele(13)	
ME-504(3)	3	NUMERICAL METHODS FOR ENGINEERING COMPUTATION	(2C)Free Ele(13)	(2C)Free Ele(13)	(3B)Discipline Ele.(12)	(2C)Free Ele(13)	
ME-592(2)	2	SPECIAL TOPICS IN CFD	(2C)Free Ele(13)	(2C)Free Ele(13)	(3B)Discipline Ele.(12)	(2C)Free Ele(13)	
ME-620(3)	3	MODELLING AND SIMULATIONS	(2C)Free Ele(13)	(2C)Free Ele(13)	(3B)Discipline Ele.(12)	(2C)Free Ele(13)	
ME-635(3)	3	MANUFACTURING FOR ENERGY SYSTEMS	(2C)Free Ele(13)	(2C)Free Ele(13)	(3B)Discipline Ele.(12)	(2C)Free Ele(13)	

7th Semester							
Course Code	Credit	Course Title	Course Basket for CSE	Course Basket for EE	Course Basket for ME	Course Basket for CE	Remarks
BY-510	3	ADVANCED CELL BIOLOGY	(2C)Free Ele(13)	(2C)Free Ele(13)	(2C)Free Ele(13)	(2C)Free Ele(13)	
BY-512	3	QUANTITATIVE AND COMPUTATIONAL BIOLOGY	(2C)Free Ele(13)	(2C)Free Ele(13)	(2C)Free Ele(13)	(2C)Free Ele(13)	
BY-513	3	CELLULAR BIOPROCESS TECHNOLOGY	(2C)Free Ele(13)	(2C)Free Ele(13)	(2C)Free Ele(13)	(2C)Free Ele(13)	

Course Code	Credit	Course Title	Course Basket for CSE	Course Basket for EE	Course Basket for ME	Course Basket for CE	Remarks
BY-521P	1	COMPUTATIONAL BIOLOGY AND CELLULAR BIOPROCESS TECHNOLOGY LAB	(2C)Free Ele(13)	(2C)Free Ele(13)	(2C)Free Ele(13)	(2C)Free Ele(13)	
CE-401	3	DESIGN OF STEEL STRUCTURES	(2C)Free Ele(13)	(2C)Free Ele(13)	(2C)Free Ele(13)	(3A)Discipline Core(30)	
CE-501	3	REMOTE SENSING	(2C)Free Ele(13)	(2C)Free Ele(13)	(2C)Free Ele(13)	(3B)Discipline Ele.(12)	
CE-504	3	SLOPE STABILITY AND RETAINING STRUCTURES	(2C)Free Ele(13)	(2C)Free Ele(13)	(2C)Free Ele(13)	(3B)Discipline Ele.(12)	
CE-505	3	ENGINEERING OF GROUND MODIFICATION	(2C)Free Ele(13)	(2C)Free Ele(13)	(2C)Free Ele(13)	(3B)Discipline Ele.(12)	
CE-510	3	MODELLING AND SIMULATION IN WATER RESOURCES ENGINEERING	(2C)Free Ele(13)	(2C)Free Ele(13)	(2C)Free Ele(13)	(3B)Discipline Ele.(12)	
CE-511	3	STRUCTURAL DYNAMICS WITH APPLICATION TO EARTHQUAKE ENGINEERING	(2C)Free Ele(13)	(2C)Free Ele(13)	(2C)Free Ele(13)	(3B)Discipline Ele.(12)	
CE-555	3	ADVANCED DESIGN OF STRUCTURES	(2C)Free Ele(13)	(2C)Free Ele(13)	(2C)Free Ele(13)	(3B)Discipline Ele.(12)	
CE-556P	2	STRUCTURAL ENGINEERING LABORATORY	(2C)Free Ele(13)	(2C)Free Ele(13)	(2C)Free Ele(13)	(3B)Discipline Ele.(12)	
CE-557	3	SOLID MECHANICS IN STRUCTURAL ENGINEERING	(2C)Free Ele(13)	(2C)Free Ele(13)	(2C)Free Ele(13)	(3B)Discipline Ele.(12)	
CE-591	1	SPECIAL TOPICS IN STRUCTURAL ENGINEERING: DETAILING CONCRETE STRUCTURES WITH THE HELP OF STRUT AND TIE MODELS	(2C)Free Ele(13)	(2C)Free Ele(13)	(2C)Free Ele(13)	(3B)Discipline Ele.(12)	
CE-593	3	SELECTED TOPICS IN WASTEWATER TREATMENT	(2C)Free Ele(13)	(2C)Free Ele(13)	(2C)Free Ele(13)	(3B)Discipline Ele.(12)	
CS-507	4	COMPUTER ARCHITECTURE	(3B)Discipline Ele.(12)	(3B)Discipline Ele.(12)	(2C)Free Ele(13)	(2C)Free Ele(13)	
CS-523	3	FORMAL VERIFICATION AND APPLICATIONS	(3B)Discipline Ele.(12)	(2C)Free Ele(13)	(2C)Free Ele(13)	(2C)Free Ele(13)	
CS-544	3	FORMAL CONCEPT ANALYSIS: THEORY AND PRACTICE	(3B)Discipline Ele.(12)	(2C)Free Ele(13)	(2C)Free Ele(13)	(2C)Free Ele(13)	
CS-548	3	CLOUD NETWORKING	(3B)Discipline Ele.(12)	(2C)Free Ele(13)	(2C)Free Ele(13)	(2C)Free Ele(13)	
CS-549	3	COMPUTER NETWORKS ANALYSIS	(3B)Discipline Ele.(12)	(3B)Discipline Ele.(12)	(2C)Free Ele(13)	(2C)Free Ele(13)	
CS-561	3	MAP REDUCE AND BIG DATA	(3B)Discipline Ele.(12)	(3B)Discipline Ele.(12)	(2C)Free Ele(13)	(2C)Free Ele(13)	
CS-660	4	DATA MINING FOR DECISION MAKING	(3B)Discipline Ele.(12)	(3B)Discipline Ele.(12)	(2C)Free Ele(13)	(2C)Free Ele(13)	
CY-501	4	ORGANIC REACTION AND MECHANISM	(2C)Free Ele(13)	(2C)Free Ele(13)	(2C)Free Ele(13)	(2C)Free Ele(13)	
CY-506	4	CHEMISTRY OF TRANSITION ELEMENTS	(2C)Free Ele(13)	(2C)Free Ele(13)	(2C)Free Ele(13)	(2C)Free Ele(13)	
CY-506P	4	INORGANIC CHEMISTRY LAB	(2C)Free Ele(13)	(2C)Free Ele(13)	(2C)Free Ele(13)	(2C)Free Ele(13)	
CY-508	2	ORGANOMETALLIC CHEMISTRY	(2C)Free Ele(13)	(2C)Free Ele(13)	(2C)Free Ele(13)	(2C)Free Ele(13)	
CY-511P	4	PHYSICAL CHEMISTRY LABORATORY	(2C)Free Ele(13)	(2C)Free Ele(13)	(2C)Free Ele(13)	(2C)Free Ele(13)	
CY-512	3	ADVANCED QUANTUM CHEMISTRY	(2C)Free Ele(13)	(2C)Free Ele(13)	(2C)Free Ele(13)	(2C)Free Ele(13)	
CY-514	3	CHEMICAL THERMODYNAMICS & ELECTROCHEMISTRY	(2C)Free Ele(13)	(2C)Free Ele(13)	(2C)Free Ele(13)	(2C)Free Ele(13)	
CY-521	3	MATHEMATICS FOR CHEMISTS	(2C)Free Ele(13)	(2C)Free Ele(13)	(2C)Free Ele(13)	(2C)Free Ele(13)	
CY-522	3	COMPUTATIONAL CHEMISTRY	(2C)Free Ele(13)	(2C)Free Ele(13)	(2C)Free Ele(13)	(2C)Free Ele(13)	
DP-401P	3	MAJOR TECHNICAL PROJECT - I	(2A)Design & Invo (Including Project)(12)	(2A)Design & Invo (Including Project)(12)	(2A)Design & Invo (Including Project)(12)	(2A)Design & Invo (Including Project)(12)	



Course Code	Credit	Course Title	Course Basket for CSE	Course Basket for EE	Course Basket for ME	Course Basket for CE	Remarks
EE-503	3	ADVANCED COMMUNICATION THEORY	(2C)Free Ele(13)	(3B)Discipline Ele.(12)	(2C)Free Ele(13)	(2C)Free Ele(13)	
EE-508	3	FUNDAMENTALS OF ELECTRIC DRIVES	(2C)Free Ele(13)	(3B)Discipline Ele.(12)	(2C)Free Ele(13)	(2C)Free Ele(13)	
EE-508P	2	PRACTICUM ON ELECTRICAL DRIVES	(2C)Free Ele(13)	(3B)Discipline Ele.(12)	(2C)Free Ele(13)	(2C)Free Ele(13)	
EE-519P	2	CMOS DIGITAL IC DESIGN PRACTICUM	(2C)Free Ele(13)	(3B)Discipline Ele.(12)	(2C)Free Ele(13)	(2C)Free Ele(13)	
EE-520	3	MICROELECTRONICS DEVICES AND MODELING	(2C)Free Ele(13)	(3B)Discipline Ele.(12)	(2C)Free Ele(13)	(2C)Free Ele(13)	
EE-522	3	MATRIX THEORY	(2C)Free Ele(13)	(3B)Discipline Ele.(12)	(2C)Free Ele(13)	(2C)Free Ele(13)	
EE-523	4	DIGITAL VLSI ARCHITECTURE DESIGN	(2C)Free Ele(13)	(3B)Discipline Ele.(12)	(2C)Free Ele(13)	(2C)Free Ele(13)	
EE-524	3	DIGITAL MOS LSI CIRCUITS	(2C)Free Ele(13)	(3B)Discipline Ele.(12)	(2C)Free Ele(13)	(2C)Free Ele(13)	
EE-526	3	POWER SEMICONDUCTOR DEVICES	(2C)Free Ele(13)	(3B)Discipline Ele.(12)	(2C)Free Ele(13)	(2C)Free Ele(13)	
EE-527	3	ANALYSIS AND DESIGN OF POWER ELECTRONIC CONVERTERS	(2C)Free Ele(13)	(3B)Discipline Ele.(12)	(2C)Free Ele(13)	(2C)Free Ele(13)	
EE-527P	2	PRACTICUM ON ANALYSIS AND DESIGN OF POWER ELECTRONIC CONVERTERS	(2C)Free Ele(13)	(3B)Discipline Ele.(12)	(2C)Free Ele(13)	(2C)Free Ele(13)	
EE-528	3	MODELING AND ANALYSIS OF ELECTRICAL MACHINES	(2C)Free Ele(13)	(3B)Discipline Ele.(12)	(2C)Free Ele(13)	(2C)Free Ele(13)	
EE-608	4	DIGITAL IMAGE PROCESSING	(3B)Discipline Ele.(12)	(3B)Discipline Ele.(12)	(2C)Free Ele(13)	(2C)Free Ele(13)	
EE-615	3	NANO-ELECTRONICS AND NANO-MICROFABRICATION	(2C)Free Ele(13)	(3B)Discipline Ele.(12)	(2C)Free Ele(13)	(2C)Free Ele(13)	
EE-620	3	ADVANCED DIGITAL SIGNAL PROCESSING	(2C)Free Ele(13)	(3B)Discipline Ele.(12)	(2C)Free Ele(13)	(2C)Free Ele(13)	
EE-621	4	RADIATING SYSTEMS	(2C)Free Ele(13)	(3B)Discipline Ele.(12)	(2C)Free Ele(13)	(2C)Free Ele(13)	
EE-622	3	MICROWAVE INTEGRATED CIRCUITS	(2C)Free Ele(13)	(3B)Discipline Ele.(12)	(2C)Free Ele(13)	(2C)Free Ele(13)	
EN-501	3	ENERGY SOURCES AND POWER PLANTS	(2C)Free Ele(13)	(2C)Free Ele(13)	(3B)Discipline Ele.(12)	(2C)Free Ele(13)	
EN-502	3	EMERGING ENERGY SOURCES	(2C)Free Ele(13)	(3B)Discipline Ele.(12)	(3B)Discipline Ele.(12)	(2C)Free Ele(13)	
EN-503	3	ENERGY STORAGE TECHNOLOGIES	(2C)Free Ele(13)	(2C)Free Ele(13)	(3B)Discipline Ele.(12)	(2C)Free Ele(13)	
EN-504	3	ENERGY: ENVIRONMENT POLICY AND LAW	(3B)Discipline Ele.(12)	(3B)Discipline Ele.(12)	(3B)Discipline Ele.(12)	(2C)Free Ele(13)	
EN-505P	2	ENERGY SYSTEMS LABORATORY	(2C)Free Ele(13)	(2C)Free Ele(13)	(2C)Free Ele(13)	(2C)Free Ele(13)	
EN-613	3	CREEP-FATIGUE INTERACTION	(2C)Free Ele(13)	(2C)Free Ele(13)	(3B)Discipline Ele.(12)	(2C)Free Ele(13)	
HS-352	3	GERMAN – II	(1D_02)International Language Competence(3)	(1D_02)International Language Competence(3)	(1D_02)International Language Competence(3)	(1D_02)International Language Competence(3)	
HS-263	3	POPULAR CULTURE IN MODERN INDIA : A HISTORICAL PERSPECTIVE	(2B)Humanities Ele(5)	(2B)Humanities Ele(5)	(2B)Humanities Ele(5)	(2B)Humanities Ele(5)	
HS-362	3	GERMAN – III	(1D_02)International Language Competence(3)	(1D_02)International Language Competence(3)	(1D_02)International Language Competence(3)	(1D_02)International Language Competence(3)	
HS-510	3	ESSENTIALS OF ENTREPRENEURSHIP	(1D_05)Managerial Competence(3)	(1D_05)Managerial Competence(3)	(1D_05)Managerial Competence(3)	(1D_05)Managerial Competence(3)	
HS-522	3	RESEARCH METHODOLOGY TO SOCIAL SCIENCE	(2B)Humanities Ele(5)	(2B)Humanities Ele(5)	(2B)Humanities Ele(5)	(2B)Humanities Ele(5)	
HS-525	3	HISTORY OF DEVELOPMENT THOUGHTS	(2B)Humanities Ele(5)	(2B)Humanities Ele(5)	(2B)Humanities Ele(5)	(2B)Humanities Ele(5)	
HS-526	3	HUMAN GEOGRAPHY: A WESTERN HIMALAYAN PERSPECTIVE	(2B)Humanities Ele(5)	(2B)Humanities Ele(5)	(2B)Humanities Ele(5)	(2B)Humanities Ele(5)	

Course Code	Credit	Course Title	Course Basket for CSE	Course Basket for EE	Course Basket for ME	Course Basket for CE	Remarks
HS-527	3	INDIAN SOCIAL STRUCTURE AND DEVELOPMENT	(2B)Humanities Ele(5)	(2B)Humanities Ele(5)	(2B)Humanities Ele(5)	(2B)Humanities Ele(5)	
HS-528	3	INFORMATION TECHNOLOGY AND DEVELOPMENT	(2B)Humanities Ele(5)	(2B)Humanities Ele(5)	(2B)Humanities Ele(5)	(2B)Humanities Ele(5)	
HS-529	3	NATURAL RESOURCE AND DEVELOPMENT	(2B)Humanities Ele(5)	(2B)Humanities Ele(5)	(2B)Humanities Ele(5)	(2B)Humanities Ele(5)	
HS-541	1	TECHNICAL COMMUNICATION	(2B)Humanities Ele(5)	(2B)Humanities Ele(5)	(2B)Humanities Ele(5)	(2B)Humanities Ele(5)	
HS-591	1	SPECIAL TOPICS IN MIXED FILM MAKING	(1D_01)Creative Understanding(1)	(1D_01)Creative Understanding(1)	(1D_01)Creative Understanding(1)	(1D_01)Creative Understanding(1)	
MA-511	4	REAL & COMPLEX ANALYSIS	(2C)Free Ele(13)	(2C)Free Ele(13)	(2C)Free Ele(13)	(2C)Free Ele(13)	
MA-512	4	LINEAR ALGEBRA	(2C)Free Ele(13)	(2C)Free Ele(13)	(2C)Free Ele(13)	(2C)Free Ele(13)	
MA-513	4	ORDINARY DIFFERENTIAL EQUATION	(2C)Free Ele(13)	(3B)Discipline Ele.(12)	(2C)Free Ele(13)	(2C)Free Ele(13)	
MA-514	3	COMPUTER PROGRAMMING	(2C)Free Ele(13)	(2C)Free Ele(13)	(2C)Free Ele(13)	(2C)Free Ele(13)	
MA-514P	2	COMPUTER PROGRAMMING LAB	(2C)Free Ele(13)	(2C)Free Ele(13)	(2C)Free Ele(13)	(2C)Free Ele(13)	
MA-515	4	APPLIED MATHEMATICAL PROGRAMMING	(2C)Free Ele(13)	(2C)Free Ele(13)	(2C)Free Ele(13)	(2C)Free Ele(13)	
MA-653	3	COMPUTATIONAL FINANCIAL MODELLING	(3B)Discipline Ele.(12)	(3B)Discipline Ele.(12)	(2C)Free Ele(13)	(2C)Free Ele(13)	
MA-653P	1	COMPUTATIONAL FINANCIAL MODELLING LAB	(3B)Discipline Ele.(12)	(3B)Discipline Ele.(12)	(2C)Free Ele(13)	(2C)Free Ele(13)	
MA-780	3	TOPICS IN SEMIGROUP THEORY	(2C)Free Ele(13)	(2C)Free Ele(13)	(2C)Free Ele(13)	(2C)Free Ele(13)	
ME-206	3	MECHANICS OF SOLIDS	(2C)Free Ele(13)	(2C)Free Ele(13)	(3A)Discipline Core(30)	(2C)Free Ele(13)	
ME-305	4	DESIGN OF MACHINE ELEMENTS	(2C)Free Ele(13)	(2C)Free Ele(13)	(3A)Discipline Core(30)	(2C)Free Ele(13)	
ME-310P	2	THERMO-FLUID LABORATORY	(2C)Free Ele(13)	(2C)Free Ele(13)	(3A)Discipline Core(30)	(2C)Free Ele(13)	
ME-311P	1	DESIGN LAB – I	(2C)Free Ele(13)	(2C)Free Ele(13)	(3A)Discipline Core(30)	(2C)Free Ele(13)	
ME-351	3	MANAGEMENT OF MANUFACTURING AND LOGISTICS SYSTEMS	(2C)Free Ele(13)	(2C)Free Ele(13)	(3B)Discipline Ele.(12)	(2C)Free Ele(13)	
ME-356	4	PRINCIPLES OF ENERGY CONVERSION	(2C)Free Ele(13)	(2C)Free Ele(13)	(3B)Discipline Ele.(12)	(2C)Free Ele(13)	
ME-601	3	ADVANCED FINITE ELEMENT METHODS	(2C)Free Ele(13)	(2C)Free Ele(13)	(3B)Discipline Ele.(12)	(2C)Free Ele(13)	
ME-602	3	MECHANICAL VIBRATION	(2C)Free Ele(13)	(2C)Free Ele(13)	(3B)Discipline Ele.(12)	(2C)Free Ele(13)	
ME-603	3	ADVANCED FLUID MECHANICS	(2C)Free Ele(13)	(2C)Free Ele(13)	(3B)Discipline Ele.(12)	(2C)Free Ele(13)	
ME-606	3	ADVANCED SOLID MECHANICS	(2C)Free Ele(13)	(2C)Free Ele(13)	(3B)Discipline Ele.(12)	(2C)Free Ele(13)	
ME-632	3	MECHANICS FOR ENERGY SYSTEMS	(2C)Free Ele(13)	(2C)Free Ele(13)	(3B)Discipline Ele.(12)	(2C)Free Ele(13)	
ME-633	3	DESIGN OF ENERGY SYSTEMS	(2C)Free Ele(13)	(2C)Free Ele(13)	(3B)Discipline Ele.(12)	(2C)Free Ele(13)	
PH-508	3	MAGNESTISM AND MAGNETIC MATERIALS	(2C)Free Ele(13)	(2C)Free Ele(13)	(2C)Free Ele(13)	(2C)Free Ele(13)	
PH-511	4	MATHEMATICAL PHYSICS	(2C)Free Ele(13)	(2C)Free Ele(13)	(2C)Free Ele(13)	(2C)Free Ele(13)	
PH-512	4	CLASSICAL MECHANICS	(2C)Free Ele(13)	(2C)Free Ele(13)	(3B)Discipline Ele.(12)	(2C)Free Ele(13)	
PH-513	3	QUANTUM MECHANICS	(2C)Free Ele(13)	(2C)Free Ele(13)	(3B)Discipline Ele.(12)	(2C)Free Ele(13)	
PH-514	3	ELECTRONICS	(2C)Free Ele(13)	(2C)Free Ele(13)	(2C)Free Ele(13)	(2C)Free Ele(13)	
PH-601	3	MESOSCOPIC PHYSICS AND QUANTUM TRANSPORT	(2C)Free Ele(13)	(2C)Free Ele(13)	(2C)Free Ele(13)	(2C)Free Ele(13)	
PH-603	3	ADVANCED CONDENSED MATTER PHYSICS	(3B)Discipline Ele.(12)	(3B)Discipline Ele.(12)	(3B)Discipline Ele.(12)	(2C)Free Ele(13)	
PH-612	3	NUCLEAR AND PARTICLE PHYSICS	(2C)Free Ele(13)	(2C)Free Ele(13)	(2C)Free Ele(13)	(2C)Free Ele(13)	
PH-613	3	SPECIAL TOPICS IN QUANTUM MECHANICS	(2C)Free Ele(13)	(2C)Free Ele(13)	(2C)Free Ele(13)	(2C)Free Ele(13)	

Course Code	Credit	Course Title	Course Basket for CSE	Course Basket for EE	Course Basket for ME	Course Basket for CE	Remarks
PH-701	4	INTRODUCTION TO MOLECULAR SIMULATION	(2C)Free Ele(13)	(2C)Free Ele(13)	(3B)Discipline Ele.(12)	(2C)Free Ele(13)	
<b>8th Semester</b>							
Course Code	Credit	Course Title	Course Basket for CSE	Course Basket for EE	Course Basket for ME	Course Basket for CE	Remarks
ME-452	3	ROBOTICS AND CONTROL	(2C)Free Ele(13)	(2C)Free Ele(13)	(3B)Discipline Ele.(12)	(2C)Free Ele(13)	
HS-610	3	READING CULTURAL STUDIES	(2B)Humanities Ele(5)	(2B)Humanities Ele(5)	(2B)Humanities Ele(5)	(2B)Humanities Ele(5)	
EN-611	3	DURABILITY BEHAVIOUR OF ENERGY MATERIALS	(2C)Free Ele(13)	(2C)Free Ele(13)	(2C)Free Ele(13)	(2C)Free Ele(13)	
CS-591_07	1	SPECIAL TOPICS IN COMPUTER SCIENCE: SAT AND SMT SOLVERS	(3B)Discipline Ele.(12)	(2C)Free Ele(13)	(2C)Free Ele(13)	(2C)Free Ele(13)	
CS-508	2	INTRODUCTION TO HETEROGENEOUS COMPUTING	(3B)Discipline Ele.(12)	(3B)Discipline Ele.(12)	(3B)Discipline Ele.(12)	(2C)Free Ele(13)	
MA-522	4	PARTIAL DIFFERENTIAL EQUATIONS	(2C)Free Ele(13)	(2C)Free Ele(13)	(3B)Discipline Ele.(12)	(2C)Free Ele(13)	
HS-393	3	TECHNOLOGY AND WORLD HISTORY:1400 TO THE PRESENT	(2B)Humanities Ele(5)	(2B)Humanities Ele(5)	(2B)Humanities Ele(5)	(2B)Humanities Ele(5)	
MA-608	3	COMPUTATIONAL FLUID DYNAMICS	(2C)Free Ele(13)	(2C)Free Ele(13)	(3B)Discipline Ele.(12)	(2C)Free Ele(13)	
CS-541P	3	IOT SYSTEMS AND THE CLOUD	(3B)Discipline Ele.(12)	(3B)Discipline Ele.(12)	(2C)Free Ele(13)	(2C)Free Ele(13)	
HS-591	1	SPECIAL TOPICS IN BUSINESS COMMUNICATION FOR ENGINEERS	(2B)Humanities Ele(5)	(2B)Humanities Ele(5)	(2B)Humanities Ele(5)	(2B)Humanities Ele(5)	
DP-402P	5	MAJOR TECHNICAL PROJECT	(2A)Design & Invo (Including Project)(12)	(2A)Design & Invo (Including Project)(12)	(2A)Design & Invo (Including Project)(12)	(2A)Design & Invo (Including Project)(12)	
EE-591_1	1	SELECTED TOPICS IN VLSI: VERIFICATION IN VLSI DESIGN	(2C)Free Ele(13)	(3B)Discipline Ele.(12)	(2C)Free Ele(13)	(2C)Free Ele(13)	
HS-510	3	ESSENTIALS OF ENTREPRENEURSHIP	(1D_05)Managerial Competence(3)	(1D_05)Managerial Competence(3)	(1D_05)Managerial Competence(3)	(1D_05)Managerial Competence(3)	
HS-551	3	FINANCIAL MANAGEMENT	(1D_05)Managerial Competence(3)	(1D_05)Managerial Competence(3)	(1D_05)Managerial Competence(3)	(1D_05)Managerial Competence(3)	
CE-607	4	FINITE ELEMENT ANALYSIS IN STRUCTURAL ENGINEERING	(2C)Free Ele(13)	(2C)Free Ele(13)	(2C)Free Ele(13)	(3B)Discipline Ele.(12)	
HS-531	3	GENDER AND DEVELOPMENT	(2B)Humanities Ele(5)	(2B)Humanities Ele(5)	(2B)Humanities Ele(5)	(2B)Humanities Ele(5)	
ME-591_3	1	SELECTED TOPICS IN FRACTURE MECHANICS	(2C)Free Ele(13)	(2C)Free Ele(13)	(3B)Discipline Ele.(12)	(2C)Free Ele(13)	
HS-530	3	PLANNING, WELFARE AND DEVELOPMENT	(2B)Humanities Ele(5)	(2B)Humanities Ele(5)	(2B)Humanities Ele(5)	(2B)Humanities Ele(5)	
HS-524	3	INDIA IN THE 1950S: BIOGRAPHY OF A FOUNDATIONAL DECADE	(2B)Humanities Ele(5)	(2B)Humanities Ele(5)	(2B)Humanities Ele(5)	(2B)Humanities Ele(5)	
HS-532	3	SUSTAINABLE DEVELOPMENT AND ENVIRONMENTAL PROTECTION	(2B)Humanities Ele(5)	(2B)Humanities Ele(5)	(2B)Humanities Ele(5)	(2B)Humanities Ele(5)	
HS-533	3	URBAN DEVELOPMENT	(2B)Humanities Ele(5)	(2B)Humanities Ele(5)	(2B)Humanities Ele(5)	(2B)Humanities Ele(5)	
CS-592_03	2	SPECIAL TOPICS IN CLOUD NETWORKING	(3B)Discipline Ele.(12)	(2C)Free Ele(13)	(2C)Free Ele(13)	(2C)Free Ele(13)	
HS-235	3	Introductory Econometrics	(2B)Humanities Ele(5)	(2B)Humanities Ele(5)	(2B)Humanities Ele(5)	(2B)Humanities Ele(5)	
EE-591_4	1	Selected Topics in Resonant Soft-switched DC-DC Converters	(2C)Free Ele(13)	(3B)Discipline Ele.(12)	(3B)Discipline Ele.(12)	(2C)Free Ele(13)	

**Other Courses**

Course Code	Credit	CourseName	Course Basket for CSE	Course Basket for EE	Course Basket for ME	Course Basket for CE	Remarks
CE-552	3	Concrete Technology	(2C)Free Ele(13)	(2C)Free Ele(13)	(2C)Free Ele(13)	(3B)Discipline Ele.(12)	
CE-601	3	Geo-Informatics	(2C)Free Ele(13)	(2C)Free Ele(13)	(2C)Free Ele(13)	(3B)Discipline Ele.(12)	
CE-610	3	Analysis and Design for Earthquake Res	(2C)Free Ele(13)	(2C)Free Ele(13)	(2C)Free Ele(13)	(3B)Discipline Ele.(12)	



Course Code	Credit	Course Title	Course Basket for CSE	Course Basket for EE	Course Basket for ME	Course Basket for CE	Remarks
CE-612	3	Theory of Plates and Shells	(2C)Free Ele(13)	(2C)Free Ele(13)	(2C)Free Ele(13)	(3B)Discipline Ele.(12)	
CS-202	4	Advanced Data Structure and Algorithms	(3A)Discipline Core(30)	(2C)Free Ele(13)	(2C)Free Ele(13)	(2C)Free Ele(13)	
CS-591_e	1	Selected Topics in Android Internals and	(3B)Discipline Ele.(12)	(2C)Free Ele(13)	(2C)Free Ele(13)	(2C)Free Ele(13)	
CS-593	3	Selected Topics in Computer Science by	(3B)Discipline Ele.(12)	(2C)Free Ele(13)	(2C)Free Ele(13)	(2C)Free Ele(13)	
CS-593_01	3	Special Topics in Compiler Design	(3B)Discipline Ele.(12)	(2C)Free Ele(13)	(2C)Free Ele(13)	(2C)Free Ele(13)	
CS-594	4	Introduction to Computer Graphics and	(3B)Discipline Ele.(12)	(2C)Free Ele(13)	(2C)Free Ele(13)	(2C)Free Ele(13)	
EE-210	3	Digital Systems Design	(2C)Free Ele(13)	(3A)Discipline Core(30)	(2C)Free Ele(13)	(2C)Free Ele(13)	
EE-304	3	Communication Theory	(2C)Free Ele(13)	(3A)Discipline Core(30)	(2C)Free Ele(13)	(2C)Free Ele(13)	
EE-304P	1	Communication Theory Lab	(2C)Free Ele(13)	(3A)Discipline Core(30)	(2C)Free Ele(13)	(2C)Free Ele(13)	
EE-504	3	Switch Mode Power Conversion	(2C)Free Ele(13)	(3B)Discipline Ele.(12)	(2C)Free Ele(13)	(2C)Free Ele(13)	
EE-513	3	Special Electrical Machines	(2C)Free Ele(13)	(3B)Discipline Ele.(12)	(2C)Free Ele(13)	(2C)Free Ele(13)	
EE-534	3	Probability and Random Processes	(3B)Discipline Ele.(12)	(3B)Discipline Ele.(12)	(2C)Free Ele(13)	(2C)Free Ele(13)	
EE-591_2	1	Selected Topics in Electric Machine Des	(2C)Free Ele(13)	(3B)Discipline Ele.(12)	(2C)Free Ele(13)	(2C)Free Ele(13)	
EE-606	3	Introduction to High Voltage Engineerin	(2C)Free Ele(13)	(2C)Free Ele(13)	(2C)Free Ele(13)	(2C)Free Ele(13)	
HS-372	3	German -IV	(1D_02)International Language Competence(3)	(1D_02)International Language Competence(3)	(1D_02)International Language Competence(3)	(1D_02)International Language Competence(3)	
HS-461	3	Consumer Behaviour	(1D_05)Managerial Competence(3)	(1D_05)Managerial Competence(3)	(1D_05)Managerial Competence(3)	(1D_05)Managerial Competence(3)	
HS-523	3	Decision Making for Social Change	(2B)Humanities Ele(5)	(2B)Humanities Ele(5)	(2B)Humanities Ele(5)	(2B)Humanities Ele(5)	
HS-536	3	Social Movements in India	(2B)Humanities Ele(5)	(2B)Humanities Ele(5)	(2B)Humanities Ele(5)	(2B)Humanities Ele(5)	
HS-537	3	Post-Reform India	(2B)Humanities Ele(5)	(2B)Humanities Ele(5)	(2B)Humanities Ele(5)	(2B)Humanities Ele(5)	
HS-539	3	Post War Germany - Politics, Society and	(2B)Humanities Ele(5)	(2B)Humanities Ele(5)	(2B)Humanities Ele(5)	(2B)Humanities Ele(5)	
HS-591_4	1	Special Topics in Personal Finance and	(2B)Humanities Ele(5)	(2B)Humanities Ele(5)	(2B)Humanities Ele(5)	(2B)Humanities Ele(5)	
HS-602	3	Indian Writing In English	(2B)Humanities Ele(5)	(2B)Humanities Ele(5)	(2B)Humanities Ele(5)	(2B)Humanities Ele(5)	
HS-608	3	Modern Western Social Thought	(2B)Humanities Ele(5)	(2B)Humanities Ele(5)	(2B)Humanities Ele(5)	(2B)Humanities Ele(5)	
HS-620	3	Popular Narratives	(2B)Humanities Ele(5)	(2B)Humanities Ele(5)	(2B)Humanities Ele(5)	(2B)Humanities Ele(5)	
IC-152	4	Computing and Data Science	(1B)Comm. Engg.(42)	(1B)Comm. Engg.(42)	(1B)Comm. Engg.(42)	(1B)Comm. Engg.(42)	
MA-521_1	4	Topology & Functional Analysis	(2C)Free Ele(13)	(3B)Discipline Ele.(12)	(3B)Discipline Ele.(12)	(2C)Free Ele(13)	
MA-549	3	Abstract Algebra	(2C)Free Ele(13)	(3B)Discipline Ele.(12)	(2C)Free Ele(13)	(2C)Free Ele(13)	
MA-605	3	Statistical Data Analysis	(3B)Discipline Ele.(12)	(3B)Discipline Ele.(12)	(3B)Discipline Ele.(12)	(2C)Free Ele(13)	
MA-609	3	Numerics of Partial Differential Equatio	(2C)Free Ele(13)	(3B)Discipline Ele.(12)	(3B)Discipline Ele.(12)	(2C)Free Ele(13)	
ME-513	4	FEM in Engineering	(2C)Free Ele(13)	(2C)Free Ele(13)	(3B)Discipline Ele.(12)	(3B)Discipline Ele.(12)	
ME-591_03	1	Selected Topics in Stealth Technology	(2C)Free Ele(13)	(2C)Free Ele(13)	(3B)Discipline Ele.(12)	(2C)Free Ele(13)	
ME-591_5	1	Selected Topics in Cost Engineering	(2C)Free Ele(13)	(2C)Free Ele(13)	(3B)Discipline Ele.(12)	(2C)Free Ele(13)	
ME-591_7	1	Selected Topics in Design and Selection	(2C)Free Ele(13)	(2C)Free Ele(13)	(3B)Discipline Ele.(12)	(2C)Free Ele(13)	
ME-616	3	Convective Heat and Mass Transfer	(2C)Free Ele(13)	(2C)Free Ele(13)	(3B)Discipline Ele.(12)	(2C)Free Ele(13)	
ME-625	3	Introduction to Turbulence and its Mode	(2C)Free Ele(13)	(2C)Free Ele(13)	(3B)Discipline Ele.(12)	(2C)Free Ele(13)	
PH-502	3	Photonics	(2C)Free Ele(13)	(3B)Discipline Ele.(12)	(2C)Free Ele(13)	(2C)Free Ele(13)	
PH-503	3	Laser and Applications	(2C)Free Ele(13)	(3B)Discipline Ele.(12)	(2C)Free Ele(13)	(2C)Free Ele(13)	
PH-522	4	Statistical Mechanics	(2C)Free Ele(13)	(3B)Discipline Ele.(12)	(3B)Discipline Ele.(12)	(2C)Free Ele(13)	
PH-524	3	Atomic and Molecular Physics	(2C)Free Ele(13)	(3B)Discipline Ele.(12)	(2C)Free Ele(13)	(2C)Free Ele(13)	
PH-591	1	Special Topics in High Energy Physics	(2C)Free Ele(13)	(2C)Free Ele(13)	(2C)Free Ele(13)	(2C)Free Ele(13)	
PH-591	1	Introduction to the Observable Universe	(2C)Free Ele(13)	(2C)Free Ele(13)	(2C)Free Ele(13)	(2C)Free Ele(13)	
PH-591_3	1	Selected Topics on Correlated Electron S	(2C)Free Ele(13)	(2C)Free Ele(13)	(2C)Free Ele(13)	(2C)Free Ele(13)	
RM-600	1	Research Methodology	(2C)Free Ele(13)	(2C)Free Ele(13)	(2C)Free Ele(13)	(2C)Free Ele(13)	