

***Combined I and II Semesters
(Common for all branches)***

Transitory papers

2003 Scheme		2008 Scheme	
03.101	Engineering Mathematics	08.101	Engineering Mathematics
03.102	Engineering Physics	08.102	Engineering Physics
03.103	Engineering Chemistry	08.103	Engineering Chemistry
03.104	Engineering Graphics	08.104	Engineering Graphics
03.105	Engineering Mechanics	08.105	Engineering Mechanics
03.106	Basic Civil Engineering	08.106	Basic Civil Engineering
03.107	Basic Mechanical Engineering	08.107	Basic Mechanical Engineering
03.108	Basic Electrical Engineering	08.108	Basic Electrical and Electronics Engineering
03.109	Basic Electronics Engineering	08.109	Basic Communication and Information Engineering
03.110	Engineering Workshops	08.110	Engineering Workshops

INFORMATION TECHNOLOGY

Semester III

<i>2003 Scheme</i>	<i>Transitory Paper (2008 Scheme)</i>
03.301 Engineering Mathematics II	08.301 Engineering Mathematics II
03.302 Problem Solving & Programming in C	08.302 Problem Solving & Programming in C
03.303 Discrete Structures	08.303 Discrete Structures
03.304 Electronic Circuits	08.304 Electronic Circuits
03.305 Logic System Design	08.305 Digital System Design
03.306 Basics of Computer Systems	08.506 Data Communication
03.307 Electronic Circuits Lab	08.307 Electronic Circuits Lab
03.308 Programming Lab	08.308 Programming Lab

Semester IV

<i>2003 Scheme</i>	<i>Transitory Paper (2008 Scheme)</i>
03.401 Engineering Mathematics III	08.401 Engineering Mathematics III
03.402 Humanities	08.402 Humanities
03.403 Computer Organization	08.306 Computer Organization
03.404 Object Oriented Techniques	08.404 Object Oriented Techniques
03.405 Data Structures & Programming Methodology	08.405 Data Structures & Algorithms
03.406 Database Design	08.406 Database Design
03.407 Data Structures Lab	08.407 Data Structures Lab
03.408 Object Oriented Programming Lab	08.408 Object Oriented Programming Lab

Semester V

<i>2003 Scheme</i>	<i>Transitory Paper (2008 Scheme)</i>
03.501 Engineering Mathematics IV	08.501 Engineering Mathematics IV
03.502 Advanced Mathematics & Queuing Models	08.502 Advanced Mathematics & Queuing Models
03.503 Operating Systems	08.505 Operating Systems
03.504 Systems Programming	08.504 Systems Programming
03.505 Microprocessors & Interfacing	08.805 A Advanced Microprocessors
03.506 Elective I	08.403 Microcontroller based Design
03.507 Digital Circuits Lab	08.507 Digital Circuits Lab
03.508 Database Lab	08.508 Database Lab

Semester VI

<i>2003 Scheme</i>	<i>Transitory Paper (2008 Scheme)</i>
03.601 Compiler Design	08.601 Compiler Design
03.602 Computer Communication	08.706A Computer Peripherals & Interfacing
03.603 Theory of Computation	08.503 Theory of Computation
03.604 Internet Technology	08.604 Internet Technology
03.605 Elective II	08.701 Software Project Management
03.606 Elective III	08.605 Computer Graphics
03.607 Internet Lab	08.607 Internet Lab
03.608 Mini Project	08.608 Computer Graphics Lab

Semester VII

<i>2003 Scheme</i>	<i>Transitory Paper (2008 Scheme)</i>
03.701 Computer Networks	08.602 Computer Networks
03.702 Internetworking	08.702 Internetworking
03.703 Software Testing	08.804 Software Testing
03.704 Web Application Development	08.704 Web Application Development
03.705 Elective IV	08.801 Mobile Computing
03.706 Elective V	08.805B Network Programming
03.707 Computer Networks Lab	08.707 Computer Networks Lab
03.708 Seminar / Project Design	08.708 Seminar / Project Design

Semester VIII

<i>2003 Scheme</i>	<i>Transitory Paper (2008 Scheme)</i>
03.801 Enterprise Networking	08.606 Embedded Systems
03.802 E-Commerce	08.802 E-Commerce
03.803 E-Security	08.803 E-Security
03.804 Distributed Systems	08.806 B Distributed Systems
03.805 Elective VI	08.703 Cryptography
03.806 Elective VII	08.706C Data Mining Techniques
03.807 Web Applications Lab	08.807 Web Applications Lab
03.808 Project & Viva-voce	08.808 Project & Viva-voce

CIVIL ENGINEERING

III to VIII Semesters Transitory Papers

2003 Scheme		2008 Scheme	
Course No	Subject	Course No:	Subject
03.301	Engineering Mathematics - II	08.301	Engineering Mathematics (CMPUNERFHBTA)
03.302	Mechanics of Structures	08.302	Mechanics of Structures
03.303	Fluid Mechanics – I	08.303	Fluid Mechanics – I
03.304	Surveying – I	08.305	Surveying – I
03.305	Building Materials & Construction	08.307	Building Technology & Drawing
03.306	Engineering Geology	08.306	Engineering Geology
03.307	Building Drawing – I	08.307	Building Technology & Drawing
03.308	Survey Practical – I	08.308	Practical Surveying – I
Semester IV			
03.401	Engineering Mathematics – III	08.401	Engineering Mathematics – III (CMPUNERFHB)
03.402	Humanities	08.402	Humanities (CTAFRHB)
03.403	Surveying – II	08.405	Surveying – II
03.404	Structural Analysis – I	08.403	Structural Analysis – I
03.405	Fluid Mechanics – II	08.404	Fluid Mechanics – II
03.406	Concrete Technology	08.304	Concrete Technology
03.407	Strength of Materials Lab	08.407	Strength of Materials Lab
03.408	Fluid Mechanics Lab	08.408	Fluid Mechanics Lab
Semester V			
03.501	Engineering Mathematics – IV	08.501	Engineering Mathematics – IV
03.502	Structural Analysis – II	08.503	Structural Analysis – II
03.503	Building Drawing- II	08.406	Building Planning and Drawing
03.504	Housing, Architecture And Planning	08.505	Urban Planning and Architecture
03.505	Geotechnical Engineering I	08.602	Geotechnical Engineering I
03.506	Elective I	08.506	Elective I
03.507	Survey Practical	08.507	Practical Surveying II
03.508	Concrete Lab	08.508	Concrete Lab

Semester VI			
03.601	Reinforced Concrete Structures	08.502	Design of Reinforced Concrete Structures
03.602	Programming and Numerical Methods	08.605	Programming and Numerical Methods
03.603	Quantity surveying and valuation	08.804	Quantity surveying and valuation
03.604	Geo-technical Engineering – II	08.703	Geo-technical Engineering – II
03.605	Transportation Engineering – I	08.504	Transportation Engineering – I
03.606	Elective II	08.606	Elective II
03.607	Water resource Engineering – I	08.603	Water Resources Engineering
03.608	Geotechnical Engineering Lab	08.707	Geotechnical Engineering Lab
Semester VII			
03.701	Design of steel structures	08.601	Design of Steel structures
03.702	Computer Method for Structural Analysis	08.701	Advanced Structural Analysis
03.703	Design of Hydraulic Structures	08.702	Design of Hydraulic Structures
03.704	Transportation Engineering – II	08.604	Transportation Engineering – II
03.705	Environmental Engineering – I	08.704	Environmental Engineering – I
03.706	Elective – III	08.705	Elective – III
03.707	Transportation Engineering Lab	08.607	Transportation Engineering Lab
03.708	Seminar / Project Survey Camp	08.708	(a) Seminar & Project (b) Survey Camp & Industrial Training
Semester VIII			
03.801	Design & Drawing of Reinforced Concrete Structures	08.801	Design & Drawing of Reinforced Concrete Structures
03.802	Design & Drawing of Steel Structures	08.802	Design & Drawing of Steel Structures
03.803	Construction Management	08.805	Construction Management
03.804	Environmental Engineering – II	08.803	Environmental Engineering – II
03.805	Elective – IV	08.806	Elective – IV
03.806	Elective – V	08.807	Elective – V
03.807	Environmental Engineering Lab	08.706	Environmental Engineering Lab
03.808	Project / Viva/ Industrial Visit	08.808	Project, Viva & Industrial Visit

B.TECH COMPUTER SCIENCE & ENGINEERING (2003 Scheme)

Transitory Scheme with 2008 Scheme

2003 Scheme	2008 Scheme
Semester 3	
03.301 Engineering Mathematics II	08.301 Engineering Mathematics II
03.302 Problem Solving and Programming in C	08.302 Problem Solving and Programming in C
03.303 Discrete Structures	08.303 Discrete Structures
03.304 Electronic Circuits	08.304 Electronic Circuits
03.305 Logic System Design	08.305 Digital System Design
03.306 Control and Instrumentation	08.704 (5) Control System Engineering
03.307 Electronic Circuits Lab	08.307 Electronic Circuits Lab
03.308 Programming Lab	08.308 Programming Lab
Semester 4	
03.401 Engineering Mathematics III	08.401 Engineering Mathematics III
03.402 Humanities	08.402 Humanities
03.403 Computer Organization	08.306 Computer Organization
03.404 Object Oriented Techniques	08.404 Object Oriented Techniques
03.405 Data Structure & Programming Methodology	08.405 Data Structure And Algorithms
03.406 Database Design	08.503 Database Design
03.407 Data Structure Lab	08.407 Data Structure Lab
03.408 Logic Design Lab	08.408 Digital Systems Lab
Semester 5	
03.501 Engineering Mathematics IV	08.501 Engineering Mathematics IV
03.502 Advanced Mathematics and Queuing Models	08.502 Advanced Mathematics and Queuing Models
03.503 Operating Systems	08.406 Operating Systems
03.504 Systems Programming	08.504 Systems Programming
03.505 Microprocessors and Interfacing	08.505 Microprocessors and Interfacing
03.506 Computer Hardware Design	08.403 Computer Hardware Design
03.507 Mini Project (OOP Lab)	08.507 Object Oriented Programming Lab
03.508 Database Lab	08.508 Application Software Development Lab
Semester 6	
03.601 Compiler Design	08.601 Compiler Design
03.602 Computer Communication	08.606 Data Communication
03.603 Theory of Computation	08.603 Formal Languages and Automata Theory
03.604 Computer Graphics	08.701 Computer Graphics
03.605 Advanced Microprocessors	08.605 High Performance Microprocessors
03.606 Elective I	
03.606 (1) Multimedia Systems	08.704 (2) Multimedia Systems & Data Compression
03.606 (2) Digital Signal Processing	08.604 Digital Signal Processing

03.606 (3) Simulation and Modelling	08.705 B Simulation and Modelling (IT)
03.606 (4) Software Project Management	08.801 Software Engineering & Project Management
03.607 Microprocessor Lab	08.607 Microprocessor Lab
03.608 System Software Lab	08.608 System Software Lab
Semester 7	
03.701 Computer Networks	08.703 Computer Networks
03.702 Algorithm Analysis & Design	08.702 Design and Analysis of Algorithms
03.703 Computer Peripherals and Interfacing	08.705 (2) Computer Hardware & Interfacing
03.704 Principles of Programming Languages	08.602 Principles of Programming Languages
03.705 Elective II	
03.705 (1) Digital Image Processing	08.806 (2) Digital Image Processing
03.705 (2) Natural Language Processing	08.606 Speech Processing (TA)
03.705 (3) Information System for Managers	08.806.13 Management Information Systems (ME)
03.705 (4) Data Mining and Warehousing	08.705 (4) Data Mining Techniques
03.706 Elective III	
03.706 (1) E- Commerce	08.802 E-Commerce (IT)
03.706 (2) Computational Geometry	08.704 (1) Computational Geometry
03.706 (3) Advanced Database Management Systems	08.705 (1) Advanced Database Management Systems
03.706 (4) Computer System Design	08.802 Computer System Architecture
03.707 Algorithm design and Graphics Lab	08.807 Algorithm design Lab
03.708 Project Design & Seminar	08.708 Project Design & Seminar
Semester 8	
03.801 Internet Technology	08.806 (4) Internet Technology
03.802 Computer Architecture and Parallel Processing	08.802 Computer System Architecture
03.803 Software Engineering	08.801 Software Engineering & Project Management
03.804 Distributed Systems	08.804 Distributed Systems
03.805 Elective IV	
03.805 (1) Embedded Systems	08.806 (3) Embedded Systems
03.805 (2) Neural Computing	08.705 (3) Neural Computing
03.805 (3) Cryptography & Network Security	08.803 Cryptography & Network Security
03.805 (4) Real Time Systems	08.705 Real Time Operating Systems (TA)
03.806 Elective V	
03.806 (1) Artificial Intelligence & Expert Systems	08.806 (1) Artificial Intelligence
03.806 (2) Graph Theory	08.805 (4) Graph Theory
03.806 (3) VLSI System Design	08.602 VLSI Design (TA)
03.806 (4) Wireless Networks	08.805 (3) Mobile & Wireless Networks
03.807 Operating System & Networking Lab	08.707 Operating System & Network Programming Lab
03.808 Project work & Viva Voce	08.808 Project work & Viva Voce

Transitory Subjects of B.Tech Mechanical Engineering – 2003 Scheme

Semester – III

2003 Scheme – Subjects		Transitory Subjects (2008 Scheme)	
.03.301	Engineering Mathematics – II	.08.301	Engineering Mathematics – II
.03.302	Humanities	.08.302	Humanities
.03.303	Fluid Mechanics	.08.303	Fluid Mechanics and Machines
.03.304	Mechanics of Solids	.08.304	Mechanics of Solids
.03.305	Computer Programming & Applications	.08.402	Computer Programming & Numerical Methods
.03.306	Machine Drawing – 1	.08.308	Computer Aided Drafting & Modelling Lab
.03.307	Civil Engineering Drawing & Estimation	.08.306	Engineering Drawing Part-A : Machine Drawing Part-B : Civil Drawing & Estimation
.03.308	Civil Engineering Lab	.08.307	Civil Engineering Lab

Semester – IV

2003 Scheme – Subjects		Transitory Subjects (2008 Scheme)	
.03.401	Engineering Mathematics – III	.08.401	Engineering Mathematics – III
.03.402	Thermodynamics	.08.305	Thermodynamics
.03.403	Hydraulic Machines	.08.506.5	Professional Ethics & Human Values
.03.404	Theory of Machines	.08.503	Theory of Machines
.03.405	Electrical Technology	.08.502	Electrical Technology
.03.406	Machine Drawing –II	.08.406	Machine Drawing
.03.407	Fluid Mechanics and Machines Lab	.08.407	Fluid Mechanics and Machines Lab
.03.408	IC Engines Lab	.08.408	IC Engines Lab

Semester – V

2003 Scheme – Subjects		Transitory Subjects (2008 Scheme)	
.03.501	Engineering Mathematics – IV	.08.501	Engineering Mathematics – IV
.03.502	Thermal Engineering	.08.405	Thermal Engineering
.03.503	Dynamics of Machinery	.08.602	Dynamics of Machinery
.03.504	Metallurgy & Material Science	.08.403	Metallurgy & Material Science
.03.505	Manufacturing Process	.08.404	Manufacturing Process
.03.506	Industrial Electronics	.08.504	Industrial Electronics
.03.507	Machine Shop	.08.507	Production Engineering Lab
.03.508	Electrical Lab	.08.508	Electrical & Electronics Lab

Semester – VI

2003 Scheme – Subjects		Transitory Subjects (2008 Scheme)	
.03.601	Heat & Mass Transfer	.08.604	Heat & Mass Transfer
.03.602	Design of Machine Elements – 1	.08.605	Design of Machine Elements – 1
.03.603	Computer Aided Design	.08.603	Computer Aided Design
.03.604	Machine Tools	.08.505	Machine Tools
.03.605	Principles of Management	.08.701	Principles of Management & Decision modeling
.03.606	Elective – I	.08.606	Elective – II
.03.607	CAD Lab	.08.607	CAD Analysis Lab
.03.608	Machine shop - II	.08.608	Machine Tools Lab

Semester – VII

2003 Scheme – Subjects		Transitory Subjects (2008 Scheme)	
.03.701	Refrigeration & Air Conditioning	.08.704	Refrigeration & Air Conditioning
.03.702	Gas Dynamics	.08.703	Gas Dynamics
.03.703	Design of Machine Elements – II	.08.705	Design of Machine Elements – II
.03.704	Metrology & Instrumentation	.08.601	Metrology & Instrumentation
.03.705	Industrial Engineering	.08.802	Industrial Engineering
.03.706	Elective – II	.08.706	Elective – III
.03.707	Thermal Engineering Lab	.08.707	Thermal Engineering Lab
.03.708	Mechanical Engineering Lab	.08.708	Mechanical Engineering Lab
.03.709	Project & Seminar	.08.709	Project & Seminar

Semester – VIII

2003 Scheme – Subjects		Transitory Subjects (2008 Scheme)	
.03.801	Energy Conversion & Management	.08.801	Energy Management
.03.802	Computer Integrated Manufacturing	.08.804	Computer Integrated Manufacturing
.03.803	Automobile Engineering	.08.803	Automobile Engineering
.03.804	Seminar	.08.807	Industrial Seminar
.03.805	Elective – III	.08.805	Elective – IV
.03.806	Elective – IV	.08.806	Elective – V
.03.807	Project & Viva Voce	.08.808	Project & Viva Voce

Mechanical Stream Production Engineering

Transitory Subjects of B.Tech Production Engineering - 2003 Scheme

Semester – III

2003 Scheme – SUBJECTS		Transitory Subjects (2008 Scheme)	
.03.301	Engineering Mathematics – II	08.301	Engineering Mathematics – II
03.302	Humanities	.08.302	Humanities
.03.303	Mechanical Engineering - I	.08.305	Mechanical Engineering
03.304	Mechanics of Solids	08.304	Mechanics of Solids
.03.305	Fluid Mechanics and Hydraulic Machines	.08.303	Fluid Mechanics and Machines
.03.306	Engineering Drawing	.08.306	Engineering Drawing Part A : Machine Drawing Part B : Civil Drawing & Estimation
.03.307	Fluid Mechanics Lab	.08.308	Fluid Mechanics Lab
.03.308	Strength of Materials Lab	.08.307	Civil Engineering Lab

Semester – IV

2003 Scheme – SUBJECTS		Transitory Subjects (2008 Scheme)	
.03.401	Engineering Mathematics – III	08.401	Engineering Mathematics – III
03.402	Computer Programming	.08.402	Computer Programming & Numerical Methods
.03.403	Production Process -1	.08.404	Production Process -1
03.404	Production Drawing	08.406	Production Drawing
.03.405	Electrical Engineering	.08.502	Electrical Technology
.03.406	Mechanical Engineering Lab	.08.407	ME Lab
.03.407	Machine Tools Lab -1	.08.408	Machine Tools Lab
.03.408	Electrical Lab	.08.508	Electrical & Electronics Lab

Semester – V

2003 Scheme – SUBJECTS		Transitory Subjects (2008 Scheme)	
.03.501	Engineering Mathematics – IV	08.501	Engineering Mathematics - IV
03.502	Mechanics of Machinery - 1	.08.503	Theory of Machine
.03.503	Production Processes	.08.505	Production Process –II
03.504	Metallurgy & Material Science	08.403	Metallurgy & Material Science
.03.505	Applied Electronics	.08.504	Industrial Electronics
.03.506	Machine Tools -1	.08.405	Machine tools –I
.03.507	Metallurgy Lab	.08.806.13	Management Information Systems
.03.508	Production Processes Lab	.08.507	Production Process Lab

Semester – VI

2003 Scheme – SUBJECTS		Transitory Subjects (2008 Scheme)	
.03.601	Metrology & Instrumentation	08.601	Metrology & Instrumentation
03.602	Machine Tools – II	.08.604	Machine Tools – II
.03.603	Mechanics of Machinery –II	.08.602	Dynamics of Machinery
03.604	Computer Integrated Manufacturing	08.703	Computer Integrated Manufacturing Systems
.03.605	Principles of Management	.08.701	Principles of Management & Decision Modelling
.03.606	Elective -1	.08.506	Elective -1
.03.607	Machine Tools Lab	.08.708	CIM Lab
.03.608	Metrology & Instrumentation Lab	.08.608	Metallurgy & Metrology Lab

Semester – VII

2003 Scheme – SUBJECTS		Transitory Subjects (2008 Scheme)	
.03.701	Product Development & Design	08.804	Product Development & Design
03.702	Mechatronics	.08.702	Mechatronics
.03.703	Production & Operations Management	.08.806.14	Production & Operations Management
03.704	Machine Theory & Design	08.605	Machines Theory & Design
.03.705	Industrial Engineering	.08.802	Industrial Engineering
.03.706	Elective –II	.08.606	Elective –II
.03.707	CAD Lab	.08.607	CAD Lab
.03.708	Production Tooling Lab	.08.707	Production Tooling Lab
.03.709	Project & Seminar	.08.709	Project & Seminar

Semester – VIII

2003 Scheme – SUBJECTS		Transitory Subjects (2008 Scheme)	
.03.801	Theory of Metal Cutting	08.704	Theory of Metal Cutting
03.802	Operations Research	.08.801	Energy Management
.03.803	Tool Engineering	.08.803	Tool Engineering
03.804	Machine Tool Design	08.705	Machine Tool Design
.03.805	Elective –III	.08.706	Elective –III
.03.806	Elective – IV	.08.805	Elective – IV
.03.807	Project & Viva -Voce	.08.808	Project & Viva -Voce

Transitory Subjects of B.Tech Mechanical Stream Automobile Engineering – 2003 Scheme

Semester – III

2003 Scheme – Subjects		Transitory Subjects (2008 Scheme)	
.03.301	Engineering Mathematics – II	.08.301	Engineering Mathematics – II
.03.302	Humanities	.08.302	Humanities
.03.303	Auto Chassis	.08.305	Auto Chassis
.03.304	Mechanics of Solids	.08.304	Mechanics of Solids
.03.305	Fluid Mechanics & Hydraulic Machines	.08.303	Fluid Mechanics & Hydraulic Machines
.03.306	Engineering Drawing – 1	.08.306	Engineering Drawing Part-A : Machine Drawing Part-B : Civil Drawing & Estimation
.03.307	Fluid Mechanics Lab	.08.308	Fluid Mechanics & Machines Lab
.03.308	Strength of Material Lab	.08.307	Civil Engineering Lab

Semester – IV

2003 Scheme – Subjects		Transitory Subjects (2008 Scheme)	
.03.401	Engineering Mathematics – III	.08.401	Engineering Mathematics – III
.03.402	Thermodynamics	.08.405	Thermal Engineering
.03.403	Auto Power Plant	.08.403	Auto Power Plant
.03.404	Theory of Machines	.08.605	Mechanics of Machinery
.03.405	Electrical Technology	.08.502	Electrical Technology
.03.406	Automobile Engineering Drawing	.08.406	Automobile Engineering Drawing
.03.407	Auto Chassis Lab	.08.407	Auto Chassis Lab
.03.408	Electrical Technology Lab	.08.508	Electrical & Electronics Lab

Semester – V

2003 Scheme – Subjects		Transitory Subjects (2008 Scheme)	
.03.501	Engineering Mathematics – IV	.08.501	Engineering Mathematics – IV
.03.502	Automotive Transmission	.08.503	Automotive Transmission
.03.503	Dynamics of Machinery	.08.402	Computer Programming & Numerical Methods
.03.504	Metallurgy & Material Science	.08.704	Production Process for Automotive Components
.03.505	Applied Industrial Electronics	.08.705	Modern Automotive Technology
.03.506	Manufacturing Technology	.08.404	Manufacturing Technology
.03.507	Machine Shop - 1	.08.408	Machine Shop - 1
.03.508	Heat Engines Lab	.08.507	Heat Engines Lab

Semester – VI

2003 Scheme – Subjects		Transitory Subjects (2008 Scheme)	
.03.601	Elements of Mechatronics	.08.702	Mechatronics
.03.602	Finite Element Analysis	.08.603	Computer Aided Design
.03.603	Applied Thermal Engineering	.08.801	Energy Management
.03.604	Auto Electrical / Electronics	.08.504	Auto Electrical / Electronics
.03.605	Principles of Management	.08.701	Principles of Management & Decision Modelling
.03.606	Elective – I	.08.506	Elective – I
.03.607	CAD Lab	.08.608	CAD Modelling & Analysis Lab
.03.608	Machine shop - II	.08.607	Machine shop - II

Semester – VII

2003 Scheme – Subjects		Transitory Subjects (2008 Scheme)	
.03.701	Machine Design	.08.505	Machine Design
.03.702	Vehicle Maintenance	.08.601	Vehicle Maintenance
.03.703	Heat Transfer	.08.604	Heat & Mass Transfer
.03.704	Mechatronics Lab	.08.708	Mechatronics Lab
.03.705	Industrial Engineering	.08.802	Industrial Engineering
.03.706	Elective – II	.08.606	Elective – II
.03.707	Vehicle Reconditioning Lab	.08.707	Vehicle Reconditioning Lab
.03.708	Project Design & Seminar	.08.709	Project Design & Seminar

Semester – VIII

2003 Scheme – Subjects		Transitory Subjects (2008 Scheme)	
.03.801	Machine Tools	.08.804	Computer Integrated Manufacturing
.03.802	Vehicle Dynamics	.08.703	Vehicle Dynamics
.03.803	Advanced IC Engines	.08.803	Theory of Advanced IC Engines
.03.804	Engine & Drive Line Design	.08.602	Engine & Drive Line Design
.03.805	Elective – III	.08.706	Elective – III
.03.806	Elective – IV	.08.805	Elective – IV
.03.807	Project & Viva Voce	.08.808	Project & Viva Voce

Transitory Subjects of B.Tech Mechanical Stream Industrial Engineering - 2003 Scheme

Semester – III

2003 Scheme – SUBJECTS		Transitory Subjects (2008 Scheme)	
.03.301	Engineering Mathematics – II	08.301	Engineering Mathematics – II
03.302	Humanities	08.406	Introduction to Industrial Engineering
.03.303	Machine Drawing	08.607	Computer Aided Drafting lab a. Machine Drawing b. Building Drawing.
03.304	Mechanics of Solids	08.304	Mechanics of Structures
.03.305	Computer Programming & Application	08.402	Computer Programming & Numerical Methods.
.03.306	Fluid Mechanics & Machines	08.403	Fluid Mechanics & Hydraulic Machines
.03.307	Civil Engineering Drawing & Estimation	08.501	Introduction to Stochastic Models
.03.308	Civil Engineering Lab	08.308	Machine Dynamics & Material Testing Lab

Semester – IV

2003 Scheme – SUBJECTS		Transitory Subjects (2008 Scheme)	
.03.401	Engineering Mathematics – III	08.401	Engineering Mathematics – III
03.402	Mechanics of Machines	.08.302	Mechanics of Machines
.03.403	Management Science	.08.801	Facilities Planning & Management
03.404	Operations Management - 1	08.405	Operations Management
.03.405	Electrical Machines	.08.305	Electrical Machines
.03.406	Thermal Engineering	.08.306	Thermal Engineering
.03.407	Fluid Mechanics & Machines Lab	.08.407	Fluid Mechanics & Machines Lab
.03.408	Thermal Engineering Lab	.08.408	Thermal Engineering Lab

Semester – V

2003 Scheme – SUBJECTS		Transitory Subjects (2008 Scheme)	
.03.501	Engineering Mathematics – IV	08.502	Operations Research
03.502	Decision Modelling - 1	.08.503	Methods & System Design
.03.503	Work System Design	.08.803	Supply Chain Management
03.504	Metallurgy & Material Science	08.303	Metallurgy & Material Science
.03.505	Manufacturing Process	.08.404	Manufacturing Processes
.03.506	Mechatronics	.08.603	Mechatronics
.03.507	Machine Shop - 1	.08.507	Machine Tools Lab
.03.508	Work System Design Lab	.08.508	Methods & System Design Lab

Semester – VI

2003 Scheme – SUBJECTS		Transitory Subjects (2008 Scheme)	
.03.601	Statistical Quality Control	08.703	Quality Engineering
03.602	Machine Design	.08.604	Machine Design
.03.603	Computer Aided Design	.08.601	Data Analysis for Management
03.604	Machine Tools	08.505	Machine Tools
.03.605	Financial Management & Accountancy	.08.704	Financial Engineering
.03.606	Elective – 1	.08.506	Elective -1
.03.607	CAD Lab	.08.608	Data Analysis & Optimization Lab
.03.608	Machine Shop - II	.08.607	Manufacturing Automation Lab

Semester – VII

2003 Scheme – SUBJECTS		Transitory Subjects (2008 Scheme)	
.03.701	System Modelling & Simulation	08.605	System Modelling & Simulation
03.702	Design for Manufacturing	.08.504	Precision Engineering
.03.703	Human Aspects of Management	.08.702	Reliability Engineering
03.704	Metrology & Instrumentation	08.705	Heuristics for Decision Making
.03.705	Elective – II	.08.606	Elective – II
.03.706	Elective – III	.08.706	Elective – III
.03.707	Software Lab	.08.707	Simulation Lab
.03.708	Quality Control Lab	.08.708	Quality Control Lab
.03.709	Project & Seminar	.08.709	Project & Seminar

Semester – VIII

2003 Scheme – SUBJECTS		Transitory Subjects (2008 Scheme)	
.03.801	System Dynamics	08.701	System Dynamics
03.802	Computer Manufacturing	.08.804	Manufacturing Systems
.03.803	Elective –IV	.08.805	Elective – IV
03.804	Seminar	08.807	Industrial Seminar
.03.805	Elective – V	.08.806	Elective –V
.03.806	Elective –VI	.08.802	Industrial Scheduling
.03.807	Project & Viva-Voce	.08.808	Project & Viva-Voce

List of Transitory Papers of 2003 Scheme for B.Tech Mechanical Stream Chemical Engineering from III to VIII Semesters

Paper Code	Subject	Semester	Transitory Subject in 2008 Scheme
III (S₃)			
03.301	Engineering Mathematics – II	08.301	Engineering Mathematics – II (CMPUNETARFHB)
03.302	Physical & Inorganic Chemistry	08.302	Physical & Analytical Chemistry
03.303	C++ Programming	08.305	Computer Programming in C++ (H)
03.304	Fluid Flow Operations I	08.404	Fluid Flow Operations I
03.305	Machine Drawing	08.304	Machine Drawing
03.306	Process Calculations	08.303	Process Calculations
03.307	Chemistry Lab I	08.307	Chemistry Laboratory I (H)
03.308	Machine Shop	08.606 EL I (G)	Technical English & Communication Skills

Paper Code	Subject	Semester	Paper to be written in 2008 Scheme
IV (S₄)			
03.401	Engineering Mathematics – III	08.401	Engineering Mathematics – III (CMPUERFNHB)
03.402	Humanities	08.402	Humanities (CTARFHB)
03.403	Organic Chemistry	08.403	Organic Chemistry
03.404	Mechanical Operations	08.306	Particle Technology
03.405	Fluid Flow Operations II	08.502	Fluid Flow Operations II
03.406	Electrical Technology	08.405	Electrical Technology
03.407	Chemistry Lab II	08.407	Chemistry Lab II
03.408	Electrical Technology Lab	08.408	Electrical Technology Lab

Paper Code	Subject	Semester	Paper to be written in 2008 Scheme
V (S₅)			
03.501	Engineering Mathematics – IV	08.501	Engineering Mathematics – IV (ERHBF)
03.502	Industrial Management	08.504	Industrial Management
03.503	Heat Transfer Operations I	08.406	Heat Transfer Operations I
03.504	Chemical Technology I	08.603	Chemical Technology I
03.505	Elective I Process Instrumentation	08.804	Process Instrumentation
03.506	Elective – II	08.606 ELI (B)	Fertilizer Technology
	(i) Bioprocess Technology	08.705 EL III (A)	Bioprocess Engineering
	(ii) Optimization Techniques.	08.805 EL IV (A)	Drugs & Pharmaceutical Technology
		08.705 EL III C	Process Optimization
03.507	Mechanical Operations Lab	08.507	Particle Technology & Mineral Processing Lab
03.508	Chemical Technology Lab	08.308	Chemical & Instrumental Analysis Laboratory

Paper Code	Subject	Semester	Paper to be written in 2008 Scheme
VI (S₆)			
03.601	Chemical Engineering Thermodynamics	08.506	Chemical Engineering Thermodynamics
03.602	Mass Transfer Operations -1	08.505	Mass Transfer Operations -1
03.603	Chemical Technology II	08.702	Chemical Technology II
03.604	Heat Transfer Operations II	08.503	Heat Transfer Operations II
03.605	Elective – III		
	(i) Computer Programming & Numerical Methods	08.605	Numerical Methods for Process Engineering (B, H)
	(ii) High Polymer Technology.	08.704 EL II (B)	Polymer Technology
	(iii) Molecular Biology & Genetics	08.705 EL III (F)	Rubber Technology
03.606	Elective – IV	08.705 ELIII (E)	Petroleum Refinery Engineering
	(i) Petroleum Refinery Engineering.		
	(ii) Energy Engineering.	08.606 EL I (F)	Energy Engineering
	(iii) Principles of food Engineering.	08.704 EL II (E)	Food Technology & Engineering
03.607	Software Lab	08.707	Software Lab
03.608	Fluid Mechanics Lab	08.508	Fluid Mechanics Lab

Paper Code	Subject	Semester	Paper to be written in 2008 Scheme
VII (S₇)			
03.701	Transport Phenomena	08.801	Transport Phenomena
03.702	Mass Transfer Operations II	08.601	Mass Transfer Operations II
03.703	Chemical Reaction Engg. I	08.602	Chemical Reaction Engg. I
03.704	Mass Transfer Operations Lab	08.607	Mass Transfer Operations Lab
03.705	Elective – V (i) Biochemical Engg.	08.704 EL II (A)	Biochemical Engg.
	(ii) Operations Research	08.606 EL I (D)	Operations Research
03.706	Elective – VI (i) Project Engineering.	08.806 EL V (E)	Project Engineering.
	(ii) Mathematical Methods in Chemical Engg.	08.806 EL V (F)	Mathematical Methods in Chemical Engineering.
	(iii) Protein Engg.	08.705 EL III (D)	Water & Waste Water Engineering
03.707	Heat Transfer Laboratory	08.608	Heat Transfer Operations Laboratory
03.708	Project, Industrial Training & Seminar	08.706	Mini Project, Seminar and Industrial Training.

Paper Code	Subject	Semester	Paper to be written in 2008 Scheme
VIII (S₈)			
03.801	Process Dynamics & Control	08.604	Process Dynamics and Control
03.802	Computer Aided Plant Design	08.802	Chemical Engineering Design II
03.803	Chemical Reaction Engg II	08.703	Chemical Reaction Engg. II
03.804	Environmental Engg.	08.803	Environmental Pollution : Control, Design & Modelling
03.805	Elective VII		
	(i) Economics and Management of Chemical Industries	08.805 EL IV (H)	Economics & Management for Process Engineers
	(ii) Material Science	08.805 EL IV (E)	Material Science
	(iii) Enzyme Science & Engineering	08.606 EL I (C)	Fuel Cell Technology
	(iv) Site Remediation	08.806 ELV (B)	Corrosion Engineering.
03.806	Elective VIII		
	(i) Fire & Safety Engg.	08.704 EL II (G)	Process Plant Safety & Hazard Assessment
	(ii) Modelling and Simulation	08.704 EL II (C)	Process Modelling & Simulation
	(iii) Environmental Biotechnology	08.705 EL III (G)	Total Quality Management
		08.806 ELV (C)	Solid Waste Management
03.807	Reaction Engineering and Process Control Lab	08.708	Reaction Engineering and Process Control Lab
03.808	Project/Viva-Voce/Industrial Training	08.807	Project and Comprehensive Viva-Voce.

List of Transitory Papers of 2003 Scheme for B.Tech Biotechnology and Biochemical Engineering Stream from III to VIII Semesters

Semester III

Paper Code	Subject	Semester	Transitory Subject in 2008 Scheme
III (S₃)			
03.301	Engineering Mathematics II	08.301	Engineering Mathematics – II (CMPUNET ARFHB)
03.302	Bio-process Calculations	08.302	Bio-process Calculations (B)
03.303	C++ Programming (B,H)	08.404	Computer Programming in C++ (B)
03.304	Fluid Flow Operations	08.304	Principles of Momentum Transfer (B)
03.305	Biochemistry-1	08.305	Biochemistry (B)
03.306	Microbiology	08.306	Microbiology (B)
03.307	Bio-chemistry Laboratory	08.307	Bio-chemistry Laboratory (B)
03.308	Computer Lab	08.607	Software Lab (B)

Semester IV

Paper Code	Subject	Semester	Paper to be written in 2008 Scheme
IV (S₄)			
03.401	Engineering Mathematics III	08.401	Engineering Mathematics III (CMPUERFNHB)
03.402	Humanities	08.402	Humanities (CTARFHB)
03.403	Bioprocess Technology	08.405	Industrial Bioprocess Technology (B)
03.404	Mechanical Operations (B, H)	08.502	Genetic Engineering (B)
03.405	Biochemistry – II	08.802	Biomaterials and Tissue Engineering (B)
03.406	Chemical Reaction Engineering (B)	08.406	Chemical and Biochemical Reaction Engineering (B)
03.407	Microbiology Laboratory	08.308	Cellular and Microbiology Laboratory
03.408	Instrumental Methods of Analysis Laboratory	08.407	Instrumental Methods and Analysis Laboratory (B)

Semester V

Paper Code	Subject	Semester	Paper to be written in 2008 Scheme
V (S₅)			
03.501	Engineering Mathematics IV	08.501	Engineering Mathematics IV (ERHBF)
03.502	Industrial Management (T,A, B,H)	08.604	Proteomics and Protein Engineering (B)
03.503	Bioprocess Engineering	08.505	Bioprocess Engineering (B)
03.504	Molecular Biology and genetics (B)	08.403	Molecular Biology (B)
03.505	Environmental Biotechnology	08.803	Environmental Pollution, Monitoring and Control (B)
03.506	Elective – 1	Elective -1 (08-606)	EL 1 A Agricultural Biotechnology (B) EL 1 B Biophysics of macro-molecules (B) EL 1 D Process Optimization (B) EL 1 E Biocatalysts and Catalysis (B) EL 1 F Computational fluid dynamics (B) EL 1 G Communicative English and Technical EL3 E Cancer Biology (B)
	(1) Food Biotechnology	Elective – III (08-705)	
	(2) Analytical Methods in Biotechnology		
	(3) Agricultural Biotechnology		
03.507	Molecular Biology Laboratory	08.507	Molecular Biology Laboratory (B)
03.508	Fluid Mechanics Laboratory	08.408	Fluid Solid Systems Laboratory (B)

Semester VI

Paper Code	Subject	Semester	Paper to be written in 2008 Scheme
VI (S₆)			
03.601	Chemical Engineering Thermodynamics (B, H)	08.506	Thermodynamics of Bioprocesses (B)
03.602	Mass Transfer Operations – 1 (B,H)	08.601	Mass Transfer Operations (B)
03.603	Heat Transfer Operations (B)	08.504	Principles of Heat Transfer in Bioprocesses (B)
03.604	Enzyme Science and Engineering	08.503	Enzyme Engineering and Technology (B)
03.605	Computer Programming & Numerical Methods (B,H)	08.605	Numerical Methods for Process Engineers (B, H)
03.606	Elective – II (1) Protein Engineering (B, H) (2) Chromatographic Separations (3) Drugs and Pharmaceutical Technology	Elective -II (08-704) Elective – III (08-705)	EL 2 A Biopharmaceutical Technology (B) EL 2 B Biosensors and Diagnostics (B) EL 2 C Research Methodologies (B) EL 2 D Modelling & Scale up of Bioreactors (B) EL 2E Design of Biological Waste Treatment Systems (B) EL 3 B Drugs Design, Development and Manufacture (B) EL 3 D r DNA Technology (B)
03.607	Bioprocess Engineering Laboratory	08.508	Bioprocess Engineering Laboratory (B)
03.608	Enzyme Engineering Lab	08.608	Enzyme Engineering and Technology Lab (B)

Semester VII

Paper Code	Subject	Semester	Paper to be written in 2008 Scheme
VII (S₇)			
03.701	Transport Phenomena (B,H)	08.602	Transport Phenomena in Bioprocesses (B)
03.702	Mass Transfer Operations – II (B,H)	08.303	Cellular and Organismal Biology (B)
03.703	Energy Engineering (B)	(08.806) EL 5 B	Energy Engineering (B)
03.704	Downstream Processing	08.701	Downstream Processing (B)
03.705	Downstream Processing Laboratory	08.808	Downstream Processing Laboratory (B)
03.706	Elective – III (1) Process Plant Operations and Safety (2) Metabolic Engineering (3) Plant & Animal Cell Technology	Elective -III (08-705) Elective – I (08-606) Elective – IV (08-805)	EL 3 A Entrepreneurship Development (B) EL 3 C Bio-fuel Technology and Engineering (B) EL 3 E Cancer Biology (B) EL 3 F Project Engineering (B) EL 1 C Process Plant Safety and Hazard Assessment (B) EL 4 C Metabolic Regulation and Engineering (B)
03.707	Heat and Mass Transfer Laboratory	08.707	Heat and Mass Transfer Operations Laboratory (B)
03.708	Project, Seminar & Industrial Training	08.708	Mini Project, Seminar and Industrial Training (B)

Semester VIII

Paper Code	Subject	Semester	Paper to be written in 2008 Scheme
VIII (S₈)			
03.801	Process Dynamics and Control (B,H)	08.603	Process Dynamics and Control (B)
03.802	Bio-informatics	08.703	Bio-informatics (B)
03.803	Bio-process Plant Design	08.801	Bio-process Plant and Equipment Design (B)
03.804	Process Instrumentation	08.702	Bio-process Instrumentation (B)
03.805	Economics and Management of Chemical Industries (B,H)	08.804	Managerial Economics for Process Engineers and Principles of Industrial Management (B)
03.806	Elective – IV	Elective -V (08-806)	EL 5 A Molecular Modeling (B)
	(1) Molecular Modeling and Drug Design		EL 5 C Mathematical Modeling and Process Simulation of Bioprocesses (B)
	(2) Immunology		EL 5 D Biostatistics (B)
	(3) Bioethics	Elective – IV (08-805)	EL 5 E Total Quality Management (B)
			EL 5 F Novel Analytical Methods in Biotechnology (B)
			EL 5 E Total Quality Management (B)
			EL 4 D Ethics and Intellectual Property Rights in Biotechnology (B)
			EL 4 E Immunology and Immunotechnology (B)
03.807	Reaction Engineering and Process Control Lab	08.706	Reaction Engineering and Process Control Lab (B)
03.808	Project/Viva-Voce/ Industrial Visits	08.809	Project and Comprehensive Viva-Voce (B)

B.Tech Electrical & Electronics (2003 Scheme)- Transitory Scheme with 2008 Scheme

SEMESTER – III

Course No	Name of Subjects	Course No	Name of Subjects
03.301	Engineering Mathematics – II	08.301	Engineering Mathematics – II (CMPUNERFHBTA)
03.302	Humanities	08.302	Humanities
03.303	Hydraulic Machines and Heat Engines	08.303	Hydraulic Machines and Heat Engines
03.304	Network Analysis and Synthesis	08.304	Network Analysis and Synthesis
03.305	Introduction to Computers and Programming	08.402	Computer Programming & Numerical Methods (MNPU)
03.306	Electrical Machines – I	08.306	Electrical Machines – I
03.307	Hydraulic Machines and Heat Engines Lab	08.307	Hydraulic Machines and Heat Engines Lab
03.308	Electrical and Electronic Workshops	08.308	Electrical and Electronic Workshops

SEMESTER – IV

Course Code	Name of Subjects	Course Code	Name of Subjects
03.401	Engineering Mathematics – III	08.401	Engineering Mathematics – III (CMPUNERFHB)
03.402	Solid State Devices and Circuits	08.305	Solid State Devices and Circuits
03.403	Digital Electronics and Logic Design	08.402	Digital Electronics and Logic Design
03.404	Electrical Measurements – I	08.404	Electrical Measurements – I
03.405	Engineering Material Science	08.405	Engineering Material Science
03.406	Power System Engineering – I	08.406	Power System Engineering – I
03.407	Electrical Drawing	08.705	Electrical Drawing
03.408	Electrical Machines Lab - I	08.408	Electrical Machines Lab - I

SEMESTER – V

Course Code	Name of Subjects	Course Code	Name of Subjects
03.501	Engineering Mathematics – IV	08.501	Engineering Mathematics – IV (ERFBH)
03.502	Engineering Electro-magnetics	08.403	Engineering Electro-magnetics
03.503	Electrical Measurements – II	08.503	Electrical Measurements – II
03.504	Power Electronics	08.504	Power Electronics
03.505	Electrical Machines – II	08.505	Electrical Machines – II
03.506	Elective – I	08.506	Elective – I
03.507	Electronic Circuits Lab	08.407	Electronics Circuits Lab
03.508	Measurements & Instrumentation Lab	08.508	Measurements & Instrumentation Lab

SEMESTER – VI

Course Code	Name of Subjects	Course Code	Name of Subjects
03.601	Numerical Techniques & Computer Programming	08.603	Numerical Techniques & Computer Programming
03.602	Micro Processors & Applications	08.602	Micro Processors & Applications
03.603	Electronics Instrumentation	08.502	Electronics Instrumentation
03.604	Electrical Machines – III	08.601	Electrical Machines – III
03.605	Power System Engineering – II	08.605	Power System Engineering – II
03.606	Elective – II	08.606	Elective – II
03.607	Power Electronics Lab	08.607	Power Electronics Lab
03.608	Microprocessor and Software Lab	08.608	Microprocessor Lab
		08.609	Software Lab

SEMESTER – VII

Course Code	Name of Subjects	Course Code	Name of Subjects
03.701	Industrial Engineering & Management	08.604	Industrial Engineering & Management
03.702	Control Systems	08.701	Control Systems
03.703	Power System Engineering – III	08.702	Power System Engineering – III
03.704	Electronic Communication	08.704	(a) Electronic Communication
03.705	Seminar and Project	08.708	Project and Seminar
03.706	Elective – III	08.704	Elective – III
03.707	Electrical Machines Lab – II	08.706	Electrical Machines Lab – II
03.708	Power System Lab	08.707	Power System Lab

SEMESTER – VIII

Course Code	Name of Subjects	Course Code	Name of Subjects
03.801	Advanced Control Theory	08.801	Advanced Control Theory
03.802	Electrical Machine Design	08.802	Electrical Machine Design
03.803	Electrical System Design	08.803	Electrical System Design
03.804	Digital Signal Processing	08.703	Digital Signal Processing
03.805	Power Semiconductor Drives	08.804	Power Semiconductor Drives
03.806	Elective – IV	08.805	Elective – IV
03.807	Project and Viva Voce (Industrial Visits)	08.807	Project and Viva Voce (Industrial Visits)
03.808	Systems & Control Lab	08.808	Systems & Control Lab

ELECTIVE I

Course Code	Name of Subjects	Course Code	Name of Subjects
03.506	1. Computer Architecture	08. 506	(a) Computer Organization
03.506	2. Superconductivity and Applications	08. 506	(b) Superconductivity and Applications
03.506	3. Operations Research	08. 506	(c) Operations Research
03.506	4. New and Renewable Sources of Energy	08. 506	(d) New and Renewable Sources of Energy

ELECTIVE II

Course Code	Name of Subjects	Course Code	Name of Subjects
03.606	1. Energy Conservation and Management	08. 606	(a) Energy Conservation and Management
03.606	2. Biomedical Instrumentation	08. 606	(b) Biomedical Instrumentation
03.606	3. Software Engineering	08. 606	(c) Software Engineering

ELECTIVE III

Course Code	Name of Subjects	Course Code	Name of Subjects
03.706	1. Modern Operating Systems	08. 704	(c) Modern Operating Systems
03.706	2. Computer Aided Power System Analysis	08. 704	(f) Computer Aided Power System Analysis
03.706	3. Robotics and Industrial Automation	08. 805	(a) Robotics and Industrial Automation

ELECTIVE IV

Course Code	Name of Subjects	Course Code	Name of Subjects
03.806	1. Computer and Data Networks	08. 806	(a) Computer and Data Networks
03.806	2. Advanced Electronic Communication	08. 806	(b) Advanced Electronic Communication
03.806	3. High Voltage Engineering	08. 806	(c) High Voltage Engineering

B.Tech Electronics & Communication (2003)- Transitory Scheme with (2008) Scheme

SEMESTER – III

Course No	Name of Subjects	Course No	Name of Subjects
03.301	Engineering Mathematics – II	08.301	Engineering Mathematics – II (CMPUNERFHBTA)
03.302	Electrical Technology (TA)	08.306	<i>Electrical Machines & Drives (A)</i>
03.303	Solid State Devices (TA)	08.302	Solid State Devices (TA)
03.304	Electronic Circuits I (TA)	08.305	Electronic Circuits I (TA)
03.305	Network Analysis (TA)	08.303	Network Analysis (TA)
03.306	Programming in C++ (TA)	08.304	Programming in C++ & Data Structures (TA)
03.307	Electronic workshop (TA)	08.307	<i>Electronic Circuits Lab (RF)</i>
03.308	Electronic Devices Lab (TA)	08.307	Electronic Devices Lab (TA)

SEMESTER – IV

Course Code	Name of Subjects	Course Code	Name of Subjects
03.401	Engineering Mathematics – III	08.401	<i>Engineering Mathematics – III (CMPUNERFHB)</i>
03.402	Humanities (TA)	08.402	Humanities (CTARFHD)
03.403	Analog Communication (TA)	08.406	Analog Communication (T)
03.404	Signals And Systems (TA)	08.403	Signals And Systems (TA)
03.405	Electronic Circuits II (TA)	08.404	Electronic Circuits II (T)
03.406	Digital Electronics (TA)	08.307	<i>Digital Electronics (T)</i>
03.407	Programming & Simulation Lab (TA)	08.308	<i>Electronic Circuits & Simulation Lab (A)</i>
03.408	Electronic Circuits Lab (TA)	08.407	Electronic Circuits Lab (T)

SEMESTER – V

Course No	Name of Subjects	Course No	Name of Subjects
03.501	Engineering Mathematics – IV	08.501	<i>Engineering Mathematics – IV (ERFBH)</i>
03.502	Industrial Management (TA)	08.701	<i>Industrial Management (TA)</i>
03.503	Linear Integrated Circuits (TA)	08.405	<i>Analog Integrated Circuits (T)</i>
03.504	Computer Organization (TA)	08.503	Computer Organization & Architecture (TA)
03.505	Applied Electromagnetic Theory (T)	08.505	Applied Electromagnetic Theory (T)
03.506	Elective I (TA)	08.506	Elective I (TA) or (T)
03.507	Digital Electronics Lab (TA)	08.308	<i>Digital Integrated Circuits Lab (T)</i>
03.508	Integrated Circuits Lab (TA)	08.408	<i>Analog Integrated Circuits Lab (T)</i>

SEMESTER – VI

Course Code	Name of Subjects	Course Code	Name of Subjects
03.601	Digital Signal Processing (TA)	08.502	<i>Digital Signal Processing (TA)</i>
03.602	Microprocessors (TA)	08.602	<i>Microprocessors & Applications (E)</i>
03.603	Industrial Electronics & Instrumentation (T)	08.504	<i>Electrical Drives & Control (T)</i>
03.604	Digital Communication (T)	08.604	Digital Communication (T)
03.605	Antenna & Wave Propagation (T)	08.605	Antenna & Wave Propagation (T)
03.606	Elective II (TA)	08.606	Elective II (TA) or (T)
03.607	Communication Engg. Lab (T)	08.507	<i>Communication Engg. Lab (T)</i>
03.608	Mini Project (TA)	08.608	Electronic Product Design & Mini Project (TA)

SEMESTER – VII

Course Code	Name of Subjects	Course Code	Name of Subjects
03.701	VLSI Circuit Design (TA)	08.602	<i>VLSI Design (TA)</i>
03.702	Information Theory & Coding (T)	08.704	Information Theory & Coding (T)
03.703	Microwave Engg. (T)	08.703	Microwave Engineering. (T)
03.704	Control Systems (T)	08.603	<i>Control Systems (T)</i>
03.705	Elective III (TA)	08.705	Elective III (TA) or (T)
03.706	Elective IV (TA)	08.706	Elective IV (TA) or (T)
03.707	Micro Processor Lab (TA)	08.608	<i>Micro Processor Lab (E)</i>
03.708	Digital Signal Processing Lab (TA)	08.508	<i>Digital Signal Processing Lab (T)</i>
03.709	Project Design & Seminar (TA)	08.709	Seminar (TA)
		08.710	Project Design (TA)

SEMESTER – VIII

Course Code	Name of Subjects	Course Code	Name of Subjects
03.801	Optical Communication (T)	08.702	<i>Optical Communication (T)</i>
03.802	Radar & Television Engineering (T)	08.802	Radar & Television Engineering (T)
03.803	Computer Communication (T)	08.803	Computer Communication (T)
03.804	Satellite & Mobile Communication (T)	08.804	Satellite & Mobile Communication (T)
03.805	Elective V (TA)	08.805	Elective V (T)
03.806	Elective VI (TA)	08.806	Elective VI (T)
03.807	Microwave & Optical Communication Lab (T)	08.807	Microwave & Optical Communication Lab (T)
03.808	Project & Viva-voce (TA)	08.809	Viva-voce (TA)

ELECTIVE I

03.506	Network Synthesis (TA)	08.304	<i>Network Analysis & Synthesis (E)</i>
03.506	Data Structures in C++ (TA)	08.405	<i>Data Structures & Algorithms (RF)</i>
03.506	Probability & Random Processes (TA)	08.401	<i>Engineering Mathematics III- Probability & Random Processes (TA)</i>
03.506	JAVA & Internet Programming (TA)	08.507	<i>Object Oriented Design and JAVA Programming (R)</i>
03.506	Digital Systems Design (TA)	08.305	<i>Digital Systems Design (RF)</i>
03.506	Logic Synthesis (TA)	08.506	<i>Logic Synthesis & Verification (TA)</i>
03.506	Electronic Product Design (TA)	08.603	<i>Mechatronics (N)</i>

ELECTIVE II

03.606	Designing with VHDL (TA)	08.546	<i>Digital Systems Design with VHDL (TA)</i>
03.606	Linear Algebra for Electronics Engg. (TA)	08.501	<i>Engineering Mathematics IV – Complex Analysis & Linear Algebra(TA)</i>
03.606	Fuzzy Systems (TA)	08.516	<i>Fuzzy Systems & Applications (TA)</i>
03.606	Analog Circuit Design (TA)	08.706	<i>Mixed Signals Circuit Design (TA)</i>
03.606	Electronic Materials (TA)	08.706(18)	<i>Bio Materials (M)</i>
03.606	Graph Theory (TA)	08.805(4)	<i>Graph Theory (R)</i>
03.606	Artificial Intelligence & Expert Systems (TA)	08.845	<i>Artificial Intelligence & Robotics (TA)</i>

ELECTIVE III

03.705	Image Processing (TA)	08.626	<i>Digital Image Processing (TA)</i>
03.705	Speech Processing (TA)	08.606	<i>Speech Processing (TA)</i>
03.705	Pattern Recognition (TA)	08.725	<i>Pattern Recognition (TA)</i>
03.705	Quantum Computing (TA)	08.705	<i>Real Time Operating System (TA)</i>
03.705	Antenna Theory & Design (T)	08.756	<i>Antenna Design (T)</i>

ELECTIVE IV

03.706	Advanced Microprocessor Architecture & Programming (TA)	08.805 (b)	<i>Advanced Microprocessor Architecture & Programming (E)</i>
03.706	Optoelectronic Devices (TA)	08.735	<i>Optoelectronic Devices (TA)</i>
03.706	System Software (TA)	08.526	<i>System Software (TA)</i>
03.706	Discrete Event System Simulation (TA)	08.736	<i>MEMS (TA)</i>
03.706	Microwave Solid State Devices & Circuits (T)	08.825	<i>Microwave Devices & Circuits (TA)</i>

ELECTIVE V

03.805	Multirate Systems & Wavelets (TA)	08.636	Wavelets & Applications (TA)
03.805	Integrated Optics & Photonic Systems (TA)	08.815	Integrated Optics & Photonic Systems (T)
03.805	Software Architecture & Systems (TA)	08.805 (2)	Software Architecture (R)
03.805	Artificial Neural Networks (TA)	08.536	Artificial Neural Networks (TA)
03.805	CDMA Systems (TA)	08.755	CDMA Systems (T)

ELECTIVE VI

03.806	Adaptive Signal Processing (TA)	08.616	Adaptive Signal Processing (TA)
03.806	Embedded Systems (TA)	08.716	Embedded Systems (TA)
03.806	Microcontroller Based System Design (TA)	08.601	Microcontroller Based System Design (TA)
03.806	Communication Protocols (TA)	08.805 (3)	Mobile and Wireless Networks (R)
03.806	Biomedical Engineering (T)	08.816	Biomedical Engineering (T)

B.Tech Applied Electronics & Instrumentation (2003) – Transitory Scheme with - 2008 Scheme

Semester – III

Course No	Name of Subject	Course No.	Name of Subject
03.301	Engineering Mathematics – II	08.301	Engineering Mathematics – II (CMPUNERFHBTA)
03.302	Electrical Technology (TA)	.08.306	Electrical Machines & Drives (A)
03.303	Solid State Devices (TA)	.08.302	Solid State Devices (TA)
03.304	Electronics Circuits I (TA)	08.305	Electronics Circuits I (T)
03.305	Network Analysis (TA)	.08.303	Network Analysis (TA)
03.306	Programming in C++ (TA)	.08.304	Programming in C++ & Data Structures (TA)
03.307	Electronics workshop (TA)	.08.307	Electronics Circuits Lab (RF)
03.308	Electronic Devices Lab (TA)	.08.307	Electronics Devices Lab (TA)

Semester – IV

Course No	Name of Subject	Course No.	Name of Subject
03.401	Engineering Mathematics III	08.401	Engineering Mathematics – III (CMPUNERFHB)
03.402	Humanities (TA)	.08.402	Humanities (CTARFHD)(TA)
03.403	Analog Communication (TA)	.08.406	Analog Communication (T)
03.404	Signals and Systems (TA)	08.403	Signals and Systems (TA)
03.405	Electronic Circuits II (TA)	.08.404	Electronic Circuits II (T)
03.406	Digital Electronics (TA)	.08.405	Digital Circuit Design (A)
03.407	Programming & Simulation Lab (TA)	.08.308	Electronics circuits and simulation Lab (A)
03.408	Electronic Circuits Lab (TA)	.08.407	Electronic Circuits Lab (T)

Semester – V

Course No	Name of Subject	Course No.	Name of Subject
03.501	Engineering Mathematics IV	08.501	Engineering Mathematics – IV (ERFBH)
03.502	Industrial Management (TA)	.08.701	Industrial Management (TA)
03.503	Linear Integrated Circuits (TA)	.08.404	Linear Integrated Circuits (A)
03.504	Computer Organization (TA)	08.503	Computer Organization & Architecture (TA)
03.505	Basic Instrumentation (A)	.08.406	Basic Instrumentation (A)
03.506	Elective I (TA)	.08.505	Elective I (TA) or A
03.507	Digital Electronics Lab (TA)	.08.407	Digital Integrated Circuits & HDL Lab (A)
03.508	Measurements & Instrumentation Lab (A)	.08.408	Measurements & Instrumentation Lab (A)

Semester – VI

Course No.	Name of Subject	Course No.	Name of Subject
03.601	Digital Signal Processing (TA)	08.502	Digital Signal Processing (TA)
03.602	Microprocessors (TA)	.08.602	Microprocessors & Applications (E)
03.603	Power Electronics Systems (A)	.08.505	Power Electronics (A)
03.604	Transducers & Measurement Systems (A)	08.404	Electrical Measurements I (E)
03.605	Control System Theory (A)	.08.504	Control System Theory (A)
03.606	Elective II (TA)	.08.605	Elective II (TA)
03.607	Industrial Electronics Lab(A)	.08.507	Power Electronics Lab (A)
03.608	Mini Project (TA)	.08.608	Electronic Product Design & Mini Project (TA)
03.609	Electrical Machines Lab (A)	08.508	Electrical Machines & Drives Lab (A)

Semester – VII

Course No	Name of Subject	Course No.	Name of Subject
03.701	VLSI Circuits Design (TA)	08.602	VLSI Design (TA)
03.702	Data Communication (A)	.08.605	Communication Engineering (A)
03.703	Process Dynamics & Control (A)	.08.704	Process Dynamics & Control (A)
03.704	Biomedical Instrumentation (A)	08.604	Biomedical Instrumentation (A)
03.705	Elective III (TA) or (A)	.08.705	Elective III (TA) or (A)
03.706	Elective IV (TA) or (A)	.08.706	Elective IV (TA) or (A)
03.707	Microprocessor Lab (TA)	.08.608	Microprocessor Lab (E)
03.708	Biomedical & Signal Processing Lab (A)	.08.707	Biomedical & Signal Processing Lab (A)
03.709	Project Design & Seminar (TA)	08.709	Seminar (TA)

Semester – VIII

Course No	Name of Subject	Course No.	Name of Subject
03.801	Digital Control Systems (A)	08.703	Discrete – Time Control Systems (A)
03.802	Computerised Process Control (A)	.08.802	Non Linear Control Theory (A)
03.803	Industrial Instrumentation (A)	.08.804	Industrial Instrumentation (A)
03.804	Optical Instrumentation (A)	08.603	Optical Instrumentation (A)
03.805	Elective V (TA) or (A)	.08.805	Elective V (A)
03.806	Elective VI (TA) or (A)	.08.806	Elective VI (A)
03.807	Process Control Lab (A)	.08.807	Process Control Lab (A)
03.808	Project & Viva-Voce (TA)	.08.809	Viva-Voce (TA)

ELECTIVE I

03.506	Network Synthesis (TA)	08.304	Network Analysis & Synthesis (E)
03.506	Data Structures in C++(TA)	.08.405	Data Structure & Algorithms (RF)
03.506	Probability & Random Processes (TA)	.08.401	Engineering Mathematics III – Probability & Random Processes (TA)
03.506	JAVA & Internet Programming (TA)	08.507	Object Oriented Design and JAVA Programming (R)
03.506	Digital Systems Design (TA)	.08.305	Digital System Design (RF)
03.506	Logic Synthesis (TA)	.08.506	Logic Synthesis & Verification (TA)
03.506	Electronics Product Design (TA)	.08.603	Mechatronics (N)

ELECTIVE II

03.606	Designing with VHDL (TA)	08.546	Digital Systems Design with VHDL(TA)
03.606	Linear Algebra for Electronics Engg.(TA)	08.501	Engineering Mathematics IV-complex Analysis & Linear Algebra (TA)
03.606	Fuzzy Systems (TA)	08.516	Fuzzy Systems & Applications (TA)
03.606	Analog Circuit Design (TA)	08.706	Mixed Signals Circuit Design (TA)
03.606	Electronics Materials (TA)	08.706(18)	Bio Materials (M)
03.606	Graph Theory (TA)	08805 (4)	Graph Theory (R)
03.606	Artificial Intelligence & Expert Systems (TA)	08.845	Artificial Intelligence and Robotics (TA)

ELECTIVE III

03.705	Image Processing (TA)	08.626	Digital Image Processing (TA)
03.705	Speech Processing (TA)	08.606	Speech Processing (TA)
03.705	Pattern Recognition (TA)	08.725	Pattern Recognition (TA)
03.705	Quantum Computing (TA)	08.705	Real Time Operating System (TA)
03.705	Electromagnetic (A)	08.666	Electromagnetics (A)

ELECTIVE IV

03.706	Advanced Microprocessor Architecture & Programming (TA)	08.805(b)	Advanced Microprocessor Architecture & Programming (E)
03.706	Optoelectronics Devices (TA)	08.735	Optoelectronics Devices (TA)
03.706	System Software (TA)	08.526	System Software (TA)
03.706	Discrete Event System Simulation (TA)	08.736	MEMS (TA)
03.706	Wireless Communication Systems (A)	08.825	Virtual Instrumentation (A)

ELECTIVE V

03.805	Multirate Systems & Wavelets (TA)	08.636	Wavelets & Applications (TA)
03.805	Integrated Optics & Photonic Systems (TA)	08.815	Integrated Optics & Photonic Systems (T)
03.805	Software Architecture & Systems (TA)	08.805(2)	Software Architecture (R)
03.805	Artificial Neural Networks (TA)	08.536	Artificial Neural Networks (TA)
03.805	CDMA systems (A)	08.755	CDMA Systems (T)

ELECTIVE VI

03.806	Adaptive Signal Processing (TA)	08.616	Adaptive Signal Processing (TA)
03.806	Embedded Systems (TA)	08.716	Embedded Systems (TA)
03.806	Microcontroller Based System Design (TA)	08.601	Microcontroller Based System Design (TA)
03.806	Communication Protocols (TA)	08.805 (3)	Mobile and Wireless Networks (R)
03.806	Design of Industrial Control Systems (A)	08.816	Modeling & Simulation of Dynamic Systems (A)