







S.K. KATARIA & SONS

Educational Publishers

4885/109, Prakash Mahal, Dr. Subhash Bhargav Lane,

Opp. Delhi Medical Association, Daryaganj, New Delhi-110002 (India)

Tel.: +91-11-43551243, Mobile: 9871775858, 7678425209 Email: katariabook@gmail.com, katariabooks@yahoo.com

Website: www.skkatariaandsons.com

(e-books, subscriptions and bulk buying also available in this website)

B.Tech. (Bachelor of Technology)

AKTU, Lucknow (UP)

Catalogue 2025-2026

Follow us at:



Facebook





For More Information



FIRST YEAR

COMMON TO ALL BRANCHES

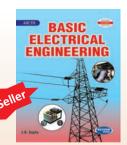
BASIC ELECTRICAL ENGINEERING

Code: BEE101/201

Size: $20 \times 30/8$ Pages: 600 Approx. ISBN: 978-93-5014-671-2

Price: ₹ 695/-

Reprint: 2025



J.B. Ğupta

Introductory Concepts • Basic Concepts and Definitions

Module-1: DC Circuits • DC Circuits • Time-Domain Analysis of First-Order R-Land R-C Circuits

Module-2: Steady-State Analysis of Single Phase AC Circuits • AC Fundamentals • Single Phase Series Circuits • Complex Notations and Circuit Analysis • Single Phase Parallel and Series-Parallel Circuits • Resonance in R-L-C Circuits • Three-Phase AC Circuits

Module-3: Transformers • Magnetic Materials and Electromagnetic Induction • Transformers

Module-4: Electrical Machine • DC Machines • Three-Phase Synchronous Machines • Three-Phase Induction Motors • Single-Phase Induction Motors

Module-5: Power Converters • Power Converters

Module-6: Electrical Installations, Electrical measuring Instruments and Miscellaneous Topics • Electrical Installations • Batteries • Electrical Measuring Instruments

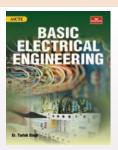
Miscellaneous Topics • Index.

BASIC ELECTRICAL ENGINEERING

Code: BEE101/201

Size: $20 \times 30/8$ Pages: 450 Approx. ISBN: 978-93-83992-40-9

Price: ₹ 595/-Reprint: 2025



Er. Talok Singh

CONTENTS

• DC Circuits • AC Circuits • Transformers • Electrical Machines (Three Phase Induction Motor) • Power Converters • Electrical Installations • Basic Electronics • Index.

FIRST YEAR

COMMON TO ALL BRANCHES

BASIC ELECTRONICS

Code: BEC101/201

Size: $20 \times 30/8$ Pages: 750 Approx.

ISBN: 978-81-906919-4-9

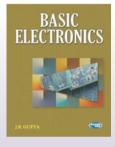
Price: ₹ 695/-Reprint: 2022

FUNDAMENTALS

Code: BEC101/201

Size: $20 \times 30/8$ Pages: 450 Approx.

ISBN: 978-93-5014-767-2 Price: ₹ 695/-Reprint: 2025



J.B. Gupta

CONTENTS

Section-I: Semiconductor Physics & Semiconductor Diodes • Introductory Concepts • Semiconductor Physics • Theory of P-N Junction Diode • Special Diodes • Applications of Diodes

Section-II: Transistors, Amplifiers and Oscillators • Bipolar Junction Transistors (BJTs) • Transistor Biasing and Stabilization • Single Stage Transistor Amplifiers • Field-Effect Transistors (FETs) Multistage Amplifiers
 Feedback Amplifiers and Oscillators

Section-III: Integrated Circuits (ICs) and Power Supplies • Integrated Circuits (ICs) • Operational Amplifier (OP-AMPs) • The 555 IC Timer • Regulated and Switching Power Supplies

Section-IV: Digital Electronics & Displays • Number Systems and Codes • Logic Gates and Boolean Algebra • Logic Circuits • Displays Section-V: Electronic Measurements and Instrumentation, Microprocessors and Communication Systems • Electronic Instruments • Transducers • Microprocessors • Communication System Objective Questions

ELECTRONICS ENGINEERING

ELECTRONIC

BvDr. Sanjay Sharma

CONTENTS

Unit One

- Semiconductor Basics Semiconductor Diodes Diode Applications • Special Purpose Two Terminal Devices
- Bipolar Junction Transistor Field Effect Transistor Unit Three
- Operational Amplifiers
- **Unit Four**
- Digital Electronics

- Fundamentals of Communication Engineering
- Introduction to Wireless Communication Systems

PROGRAMMING FOR PROBLEM SOLVING **USING C**

Code: BCS101/201

Size: $20 \times 30/8$ Pages: 400 Approx. ISBN: 978-93-5014-771-9

Price: ₹ 495/-Reprint: 2025

ByDr. S. Anandamurugan

- An Introduction to the Components of a Computer System • Idea of Algorithm • Programming Basics
- Arithmetic Expression and Precedence Conditional Branching • Interation and Loops • Arrays • Functions
- Basics of Searching and Sorting Algorithms Pointers
- File Handling C Programs Sample Question Papers
- · Solved University Question Papers · Index.

PROGRAMMING FOR PROBLEM SOLVING

(With CD)

Code: BCS101/201

Size: $20 \times 30/8$ Pages: 425 Approx. ISBN: 978-93-5014-672-9

Price: ₹ 595/-Reprint: 2025



By**Udit Agarwal**

- Introduction to Components of a Computer System
- Idea of Algorithm Programming Basics
- Fundamentals of C Language Operators and Expressions Managing Input/Output Operations
- Decision Making and Conditional Branching Iteration and Loops • Arrays and Strings • Basic Algorithms
- Functions and Recursion Structure and Union
- Pointers Files Handling Appendix A Bibliography
- Index Appendix B in CD.

COMMON TO ALL BRANCHES

FIRST YEAR

PROBLEM SOLVING WITH PROGRAMMING **USING C**

Code: BCS101/201

Size: $20 \times 30/8$ Pages: 275 Approx.

ISBN: 978-93-5014-749-8

Price: ₹ 295/-Reprint: 2025

Isha Sharma Jasleen Kaur

Vikas Wasson Pooja Sharma

PROBLEM SOLVING

WITH PROGRAMMING

USING C

CONTENTS

- · Algorithm and Flowcharts
- Fundamentals of C
- Decision Control Statements in C
- Loop Control Structure in C
- Arrays and Strings
- · Functions in C
- Pointer
- Structure • Dynamic Memory Allocation in C
- TCS Coding Questions with Answers
- Basic Interview Questions on C
- Wipro Elite NLTH Coding/Programming Questions
- References
- Index.

PROGRAMMING FOR PROBLEM SOLVING

(Programming in C) (With CD)

Code: BCS101/201

Size: $20 \times 30/8$ Pages: 475 Approx.

ISBN: 978-93-83992-38-6

Price: ₹ 595/-Reprint: 2025



ByS.K. Jha

CONTENTS

• Introduction to Computer • Algorithm and Programming Development • Programming Language • Concepts of Operating System • C-Fundamentals • Program Structure

- Operators and Expressions Constants, Variables and Control Statements • Functions and Strings • Arrays
- Pointers Structures, Unions and Preprocessors
- Data Structures and Dynamic Memory Allocations · Data File Operations · Appendix A, B & C
- Bibliography Index Appendix D in CD.

Fundamentals of MECHANICAL ENGINEERING

Code: BME101/201

Size: $20 \times 30/8$ Pages: 425 Approx.

ISBN: 978-93-5014-768-9

Price: ₹ 595/-Reprint: 2025

FUNDAMENTALS OF MECHANICAL ENGINEERING Best Seller

> BvDr. D. S. Kumar

CONTENTS

• Engineering Mechanics • Mechanics of Solids

• Internal Combustion Engines and Electric Vehicles • Refrigeration and Air-conditioning • Fluid Mechanics • Hydraulic Machines • Measurement and

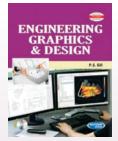
Instrumentation • Mechatronics Systems: Basic Concepts and Applications • Actuation and actuating systems • Index.

ENGINEERING GRAPHICS & DESIGN

Code: BCE151/251

Size: $20 \times 30/8$ Pages: 700 Approx. ISBN: 978-93-5014-670-5

Price: ₹ 795/-Reprint: 2025



P.S. Gill

Part-I: Traditional Engineering Graphics (Geometrical Drawing)
• Manual Drawing Instruments • Conventional Lines, Drawing Sheets: Layout & Planning • Technical Lettering • Dimensioning Terms and Notations • Geometrical Constructions • Scales • Conic Sections • Cycloid, Epicycloid, Hypocycloid and Involute Curves • Projections of Points • Projections of Lines • Projections of Planes • Projections on Auxiliary Planes • Projections of Solids • Sections of Solids • Development of Surfaces • Intersections of Surfaces • Isometric Projection • Theory of Orthographic

Projections and Reading a Drawing • Perspective Projection.

Part-II: Computer Graphics • CAD Overview: Getting Started
• AutoCAD Fundamentals • Drawing 2D-Geometry • Managing Object AutoCAD Fundamentals • Drawing 2D-veometry • managing object Properties • Viewing 2D Drawings and Object Selection • Editing Two-Dimensional Drawing • Creating Text and Drawing Dimensions • Creating/Layout/ Template Files and Plotting/Printing • Creating Section Views and Editing Hatches • Parametric Drawing Tools • Creating Block and Company Assembly Drawings • 3D Coordinate Systems and Viewing 3D Drawings AutoCAD 2D Isometric Drawing
 3D Wireframe Modeling
 3D Surface Modeling • 3D Solid Modeling Tools and Techniques • Multiview Drawings from 3D Models • Index.

FIRST YEAR

COMMON TO ALL BRANCHES

ENGINEERING GRAPHICS & DESIGN

Code: BCE151/251

Size: $20 \times 30/8$ Pages: 425 Approx.

ISBN: 978-93-5014-675-0

Price: ₹ 495/-Reprint: 2024



By Dr. Mohd. Parvez Osama Khan

CONTENTS

PartA: Engineering Drawing

- Introduction to Drawing as a Language of Engineers and Drawing Equipments Lines and Conventional Breaks
- Lettering Techniques and Dimensioning with Tolerances
- Geometrical Construction Engineering Curves Scales
- Theory of Projection Projection of Solid Orthographic Projection • Sectional Views • Isometric Projection
- Development of Surfaces Screw Threads and Fasteners
- Rivets and Riveted Joits Welded Joint Floor Plan

Part B: Computer Graphic (AutoCAD)

- Origin of Computer Technologies Introduction of AutoCAD Basic AutoCAD Commands Customisation of Drawings in AutoCAD Dimensioning Drawings for Objects
- Index

ENVIRONMENT AND ECOLOGY

Code: BAS104/204

Size: $20 \times 30/8$ Pages: 250 Approx.

ISBN: 978-93-5014-769-6 Price: ₹ 425/-

Price: ₹ 425/-Reprint: 2025



By Smriti Srivastava

CONTENTS

- Definition of Environment
- Ecosystem
- Effects of Human Activities on Environment
- Natural Resources
- Environmental Pollution
- The Important Current Environmental Issues
- Environmental Legislation and Human Population
- Glossary
- Model Question Papers
- Index

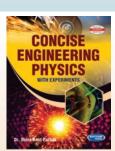
CONCISE ENGINEERING PHYSICS

With Experiments
Code: BAS101/201

Size: 20 × 30/8 Pages: 375 Approx.

ISBN: 978-93-5014-762-7

Price: ₹ 495/-Reprint: 2025



By Dr. Shiva Kant Pathak

CONTENTS

• Quantum Mechanics-I (Quantum Theory of Radiation) • Quantum Mechanics-II (Wave Mechanics) • Electromagnetic Field Theory • Wave Optics-I (Interference) • Wave Optics-II (Difraction) • Fiber Optics • Laser • Super Conductor • Nane-Materials • Experiments • Previous Year Examination Paper • Index.

ENGINEERING PHYSICS

Code: BAS101/201

Size: 20 × 30/8 Pages: 700 Approx. ISBN: 978-93-5014-679-8

Price: ₹ 795/-Reprint: 2025



By Dr. Rakesh Dogra

CONTENTS

• Interference • Diffraction • Polarization • Lasers • Fibre Optics • Quantum Mechanics • Electronic Materials • Semiconductor Physics and Measurements • Waves and Oscillations • Mechanics of Solids • Electrostatics and Electromagnetism • Electromagnetic Waves • Relativistic Mechanics • Elements of Statistics • Superconductivity • Elements of Thermodynamics • The Structure of Materials • Index.

COMMON TO ALL BRANCHES

FIRST YEAR

A Textbook of **ENGINEERING CHEMISTRY**

Code: BAS102/202

Size: $20 \times 30/8$ Pages: 800 Approx.

ISBN: 978-93-5014-637-8 Price: ₹ 795/-

Reprint: 2025

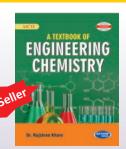
(With Experiments)

Code: BAS102/202

Size: $20 \times 30/8$ Pages: 500 Approx.

ISBN: 978-93-5014-770-2

Price: ₹ 595/-Reprint: 2025



ByDr. Rajshree Khare

CONTENTS

- Atomic and Molecular Structure Chemical Bonding
- · Spectroscopy Techniques and Applications
- Intermolecular Forces and Potential Energy Surfaces
- Use of Free Energy in Chemical Equilibria Water Chemistry • Water and its Treatment • Corrosion and its Control • Periodic Properties • Stereochemistry • Organic Reactions and Synthesis of a Drug Molecule
- Electrochemistry Nano Chemistry Polymers
- Experiments Index.

ENGINEERING CHEMISTRY

CHEMISTR

Dr. Sunita Rattan

• Atomic and Molecular Structure • Liquid Crystals, Graphite and Fullerence • Nanomaterials • Green Chemistry • Spectroscopy Techniques and Applications • Stereochemistry

- Electrochemistry and Batteries Corrosion Chemistry of Engineering Materials Water Technology Fuels and Combustion • Polymers • Organometallic Compounds
- · Experiments · Index.

Experiments in APPLIED **CHEMISTRY**

Code: BAS152/252

Size: $20 \times 26/8$ Pages: 450 Approx.

ISBN 13: 978-81-88458-05-9 ISBN 10: 81-88458-05-8

Price: ₹ 425/-Reprint: 2025

Experiments in



By Dr. Sunita Rattan

- Volumetric Analysis Water Analysis Ores and Alloy Analysis
- Potentiometry and pH Metric Measurements Conductometric Measurements • Colorimetric and Spectrophotometric Analysis
- Thermochemistry Chemical Kinetics Surface Tension
 Viscosity Cryoscopy Polymers Phase Equilibria
 Preparations Analysis of Coal Lubricants Chromatoraphy
- Adsorption Environmental Chemistry Appendices.

A Textbook of **ENGINEERING MATHEMATICS-I**

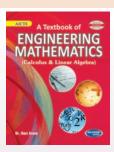
(Calculus & Linear Algebra)

Code: BAS103

Size: $20 \times 30/8$ Pages: 600 Approx.

ISBN: 978-93-5014-674-3

Price: ₹ 695/-Reprint: 2025



ByDr. Hari Arora

- · Asymptotes and Curve Tracing
- Curvature
- Definite and Improper Integrals
- · Gamma and Beta Function
- Applications of Integration
- · Differential Calculus
- Indeterminate Forms and Maxima & Minima
- · Sequences and Series
- Exponential and Logarithmic Series
- Fourier Series • Multivariable Calculus (Differentiation)
- Matrices
- Vector Spaces
- Index.

FIRST YEAR

COMMON TO ALL BRANCHES

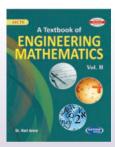
A Textbook of **ENGINEERING MATHEMATICS-II**

Code: BAS203

Size: $20 \times 30/8$ Pages: 775 Approx.

ISBN: 978-93-5014-685-9

Price: ₹ 795/-Reprint: 2024



By Dr. Hari Arora

CONTENTS

• First Order Ordinary Differential Equations • Ordinary Differential Equations of Higher Orders • Multivariable Calculus (Integration) • Vector Differential Calculus • Vector Integral Calculus • Matrices • Sequences and Series • Complex Variable Differentiation • Complex Variable Integration • Laplace Transforms • Fourier Transforms • Partial Differential Equations • Index.

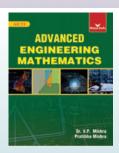
ADVANCED **ENGINEERING MATHEMATICS**

Code: BAS103/203

Size: $20 \times 30/8$ Pages: 1250 Approx. ISBN: 978-93-83992-34-8

Price: ₹ 895/-Reprint: 2025

(Agency Book)



Dr. V.P. Mishra Pratibha Mishra

CONTENTS

Partial Differentiation, Euler's Theorem, Change of Variables, Expansion of Functions, Approximation, Lacobians, Maxima-Minima * Reduction Formulae, Beta and Gamma Functions, Improper Integrals, Differentiation under Integral sign-Lebreitz's Rule, Double and Traple Integrals Ordinary Differential Equations of Order One. Linear, Exact, Equations of First Order but not of First Degre * Linear Differential Equations of Order One. Linear, Exact, Equations of First Order but not of First Degre * Linear Differential Equations of Order One. Linear, Exact, Equations of First Order but not of First Degre * Linear Differential Equations of Price Post Degrees * Linear Differential Equations, Series Solution of Differential Equations, Bessel's Functions and Legendre's Polynomials * Matrices, Determinants, Inverse, Rank, Hermitian and Skew-Hermitian Matrices * Consistency of General System of Simulaneous Equations, Eigen Networs, Diagonalizing a Matrix, Vector Spaces * Vector Differentiation: Gradient, Divergence, Curl and Vector Identities * Vector Integration: Line integral, Green Lemma Surface Integrals, Stoke's * Theorem, Divergence Theorem * Complex Number System: Complex Functions, Differentiation and Analyticity, Conformal and Bilinear Mapping * Complex Number System: Complex Functions, Differentiation and Analyticity, Conformal and Bilinear Mapping * Complex Integration* Taylor and Laurent's Series, Residue Theorem, Evaluation of Real Integrals * Laplace Transformation and Laurent's Series, Residue Theorem, Evaluation of Real Integrals * Laplace Transformation and Its Inverse, Convolution, Solving Differential Equations by U Transform Unit Step Function, Impulse Function * Pourier Series, Half-Range Series, Harmonic Analysis * Fourier Integrals, Fourier Transforms and their Applications * Differential Equations of Higher Order and Applications * Differential Equations of Higher Order and Applications * Difference Equations * Variansform* * Numerical Solution to Equations * Partial Differential Equations * Numerical

ADVANCED ENGINEERING MATHEMATICS

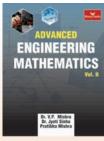
(Vol. II)

Code: BAS203

Size: $20 \times 30/8$ Pages: 525 Approx. ISBN: 978-93-83992-41-6

Price: ₹ 595/-Reprint: 2023

(Agency Book)



Dr. V.P. Mishra Dr. Jvoti Sinha Pratibha Mishra

CONTENTS

• Partial Differential Equations and Solution of First Order Equations · Laplace Transformation and its Inverse, Convolution, Applications of L' Transform in Solving Differential Equations • Partial Differential Equations of Higher Order and Applications • Fourier Transforms and their Applications • Difference Equations, Z-transform and Solution of Difference Equations by Z-transform • Numerical Solution to Equations in One Variable and Simultaneous Equations • Finite Differences, Divided Differences and Interpolation • Numerical Differentiation and Numerical Integration · Numerical Solution to Ordinary Differential Equations of Order One and Order Two . Numerical Solution to Partial Differential Equations

Specially for Students of Computer Science and Engineering • Theory of Sets, Relations and Functions, Partial and Total Order Relation, Lattice, Boolean Algebra • Mathematical Logic, Counting Principles and

Recurrence Relations • Algebraic Structures • Graph Theory Answers and Hints to the Problems in Exercises

SOFT SKILL

(The Employability Skills for 21st Centure) Including English Language Lab

Code: BAS105/205

Size: $20 \times 30/8$ Pages: 450 Approx. ISBN: 978-93-5014-755-9

Price: ₹ 595/-Third Edition: 2025



ByDr. Ritu Soryan

- Applied Grammer and Usage
- · Listening and Speaking Skills
- Reading and Writing Skills
- · Presentation and Interaction Skills
- · Workplace Skills
- Professional Communication Lab (English Language Lab)
- · Beyond The Syllabus
- Quiz Time
- Previous Year Examination papers

COMMON TO ALL BRANCHES

FIRST YEAR

ENVIRONMENTAL STUDIES

Code: BAS102/202

Size: $20 \times 26/8$ Pages: 425 Approx.

ISBN 13: 978-93-5014-385-8 ISBN 10: 81-88458-77-5

Price: ₹ 495/-Reprint: 2025



By Dr. Suresh K. Dhameja

CONTENTS

• The Multidisciplinary Nature of Environmental Studies • Natural Resources: Renewable and Non-Renewable Resources • Ecosystems • Biodiversity and Its Conservation • Environmental Pollution • Social Issues and the Environment • Human Population and the Environment • Selective Bibliography • Model Question Papers • Examination Paper • Index.

MANUFACTURING PRACTICES (WORKSHOP PRACTICE)

Code: BWS151/251

Size: $20 \times 30/8$ Pages: 400 Approx.

ISBN: 978-93-5014-677-4

Price: ₹ 495/-Reprint: 2024



Dr. R.K. Singal

CONTENTS

Part-A-1: Manufacturing Methods • Introduction • Casting Methods • Metal Forming Processes • Machining Processes • Joining by Welding

Part-A-2: Advanced Manufacturing Methods • Advanced Machining

Processes • Advanced Welding Methods
Part-B: • CNC Machining • Additive Manufacturing
Part-C: • Fitting Operations • Power Tools

Part-D: • Electrical Engineering • Electronics Engineering Part-E: • Carpentry Practice • Pattern Making Practice
Part-F: • Plastic Processing Practice • Glass Cutting Practice

Part-G: • Mould Making Practice • Casting Practice

Part-H: Welding Processes • Welding Process • Gas Welding • Arc Welding Brazing and Soldering

Part-I: Workshop Practice • Design and Planning of a Workshop • Machine Shop • Fitting Shop • Carpentry Shop • Electrical and Electronics Shop • Welding Shop • Casting Shop • Smithy Shop • Plastic Moulding and Glass Cutting Shop

• References • Index.

WORKSHOP/ **MANUFACTURING PRACTICES**

Code: BWS151/251

Size: $20 \times 30/8$ Pages: 275 Approx. ISBN: 978-93-83992-42-3

Price: ₹ 425/-Reprint: 2025



Virender Narula

- Introduction to Workshop Practice (Manufacturing Methods) • Industrial Safety and Accidents • Engineering Materials • Metal Cutting Processes (Machine Shop) • Fitting Shop and Power Tools
- Electrical and Electronic Shop Carpentary Shop Welding Shop Foundry Shop Plastic Moulding Smithy and Forging Shop • Sheet Metal Shop • Index.

SECOND YEAR

THIRD AND FOURTH SEMESTER

DATA STRUCTURES USING C

(For Science Based Open Elective) (For CSAI/CSML/CSDS/CSIOT, CS and IT Branches)

Code: BOE306/406/BCS301

Size: $20 \times 30/8$ Pages: 600 Approx

ISBN: 978-93-5014-056-7

Price: ₹ 695/-Reprint: 2025



Udit Agrawal

CONTENTS

• Introduction to Data Structures • Essentials of C Language • Introduction to Arrays and Matrices • Linked List • Searching and Hashing Techniques • Sorting Techniques • Stacks • The Queues • Iteration and Recursion • Trees • Binary Search Tree · AVL Tree · B-Tree and its Variants · Graphs · Storage Management • Model Question Papers • Index.

DATA STRUCTURES AND ALGORITHMS **USING C**

(For Science Based Open Elective)

Code: BOE306/406/BCS301

Size: $20 \times 30/8$ Pages: 775 Approx.

ISBN 13: 978-81-88458-81-3 ISBN 10: 81-88458-81-3

Price: ₹ 895/-Reprint: 2025

DATA STRUCTURES and ALGORITHMS USING C

By Nitin Upadhyay

CONTENTS

Part-I

- Introduction to Data Introduction to Program Design Growth of Function • Analysing Algorithm Control Structures
- Recurrences Quick Reference C-I Quick Reference C-II · Quick Reference C-III · Quick Reference C-IV · Quick Reference C-V

Part-II

• Pointer • Linked Lists • Stack • Sorting in Linear Time • Trees • Heap • Searching and Advanced Search Tree • Graphs • String Matching • Augmenting Data Structure • NP-Completeness

- · Data Structures & Algorithm Using C
- · Appendices · Index.

DATABASE **MANAGEMENT** SYSTEM

(For Science Based Open Elective)

Code: BOE307/407

Size: $20 \times 30/8$ Pages: 400 Approx. ISBN: 978-81-89757-78-6

Price: ₹ 495/-Reprint: 2025



BvP.K. Yadav

CONTENTS

- Introduction to DBMS Data Modelling Using the E-R- Model
- Relational Data Model and Language Introduction to SQL
 Normalization Transaction Processing Concepts
- Serializability and Deadlock Handing Concurrency Control
- Techniques Competative Quiz A Practical Approach to SQL
- Tutorial Exercises Previous Year Question Papers Index.

COMPUTER ORGANIZATION & **ARCHITECTURE**

(For CS and Related Branches)

Code: BCS302

Size: $20 \times 30/8$ Pages: 350 Approx. ISBN: 978-93-5014-557-9

Price: ₹ 595/-Reprint: 2025



BvDr. Lalit K. Arora Anjali Arora

- Basics of Computer Organization and Architecture Data Representation in Computer System • Computer Arithmetic • Boolean Algebra and Digital Logic • Register Transfer Logic
- Processor Organization Computer Instructions Set Architecture • Memory Organization • Input and Output Organization •
- Assembly Language Pipelining Objective Type Questions Model Question Papers • References • Index.

THIRD AND FOURTH SEMESTER SECOND YEAR

CYBER SECURITY

(Common to all branches)

Code: BCC301/401

Size: $20 \times 30/8$ Pages: 325 Approx.

ISBN: 978-93-5014-774-0

Price: ₹ 495/-Reprint: 2025



By Praveen Kumar Tripathi Niraj Kumar Tiwari

CONTENTS

- Introduction to Cyber Crime
- Cyber Crime
- Tools and Methods used in Cybercrime
- Understanding Computer Forensics
- Introduction to Security Policies and Cyber Laws
- Index.

PYTHON PROGRAMMING

(Common to all branches)

Code: BCC302/402

Size: 20× 30/8 Pages: 375 Approx.

ISBN: 978-93-5014-737-5

Price: ₹ 495/-Reprint: 2025

PYTHON PROGRAMMING

By
Dr. Jisu Elsa Jacob
Bharath Viswam S

CONTENTS

- Introduction to Programming
- Introduction to Python
- Data Types and Expressions in Python
- · Conditional and Control Flow Statements in Python
- Iteration Statements in Python
- Functions
- · Strings and Lists
- Tuples, Sets and Dictionaries
- Files
- Modules and Packages
- · OOP-Concepts, Classes and Objects
- Exception Handling
- · Lab Questions for Python Programming
- Index

COMPUTER ARCHITECTURE AND ORGANIZATION

(For CSAI/CSML/CSDS/CSIOT, CS and IT Branches)

Code: BCS302

Size: 20 × 30/8 Pages: 400 Approx. ISBN: 978-93-5014-110-6

Price: ₹ 495/-Reprint: 2024 Computer Architecture and Organization

By Pankaj Sharma

CONTENTS

• Introduction of Design Methodology • Processor Level Design and Processor Basic • Data Representation • Instruction Set • Data Path Design • Control Design • Memory Organization • Input/Output Organization • Introduction to 8085 Microprocessor • Glossary • Appendices • Index.

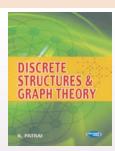
DISCRETE STRUCTURES & GRAPH THEORY

(For CSAI/CSML/CSDS/CSIOT, CS and IT Branches)

Code: BCS303

Size: 20 × 26/8 Pages: 575 Approx. ISBN: 978-93-5014-560-9

Price: ₹ 595/-Reprint: 2025



By K. Patrai

- Set Theory Relation Function Algebraic Structures Rings and Fields Posets, Hasse Diagrams and Lattices Boolean Algebra Propositional Calculus and Formal Logic Methods of Proof Graphs Euler and Hamiltonian Graphs Trees Planar Graphs Matrix Representation of Graphs Colouring of Graphs Finite State Machines Combinatorics Examination Papers
- Finite State Machines
 Combinatorics
 Examination Paper
 Index.

SECOND YEAR

THIRD AND FOURTH SEMESTER

OPERATING SYSTEMS

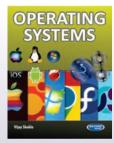
(For CSAI/CSML/CSDS/CSIOT, CS and IT Branches)

Code: BCS401

Size: $20 \times 30/8$ Pages: 350 Approx.

ISBN: 978-81-89757-59-5

Price: ₹ 495/-Reprint: 2025



By Vijay Shukla

CONTENTS

- Overview of Operating Systems Operating System Structure Process Management CPU Scheduling Process
- Synchronization and Interprocess Communication Deadlocks
- Memory Management Virutal Memory Input/Output
- Management and Disk Scheduling File System Management • Protection and Security • Case Studies: Linux and Windows NT •
- Introduction to Distributed Systems Distributed File System

• Previous Year Examination Papers • Index.

Introduction to AUTOMATA THEORY & FORMAL LANGUAGES

(For CSAI/CSML/CSDS/CSIOT, CS and IT Branches)

Code: BCS402

Size: $20 \times 26/8$ Pages: 375 Approx.

ISBN 13: 978-81-88458-47-9 ISBN 10: 81-88458-47-3

Price: ₹ 425/-Reprint: 2025

AUTOMATA THEORY & ORMAL LANGUAGES

By Adesh K. Pandey

- Introduction to Concept of Automata Finite Automata
- Automata with Output Regular Expression and Languages • Properties of Regular Languages • Context-Free Grammars and Languages • Simplified Context-Free Grammar and Its Normal Form • Pushdown Automata • Properties of Context-Free
- Languages Turing Machine Extension of Turing Machine Recursive Function Theory • The Chomsky Hierarchy
- Tractable and Intractable Problems Previous Year Examination Papers • Index.

OBJECT ORIENTED

SYSTEM

WITH

JAVA

(For CS and Related Branches)

Code: BCS403

Size: $20 \times 30/8$ Pages: 625 Approx. ISBN: 978-81-89757-57-1

Price: ₹ 795/-Reprint: 2025



ByLalit Arora

CONTENTS

Part-I: Object-Oriented Modeling & Design
• Introduction • Object Modeling Technique (OMT) • Object Modeling • Advance Concepts of Object Modeling • Dynamic Modeling • Functional Modeling • OMT Methodology.

Part-II: JAVA Programming

- Introduction to JAVA Beginning with JAVA Programs Basic Java Programs • Methods and Classes • Inheritance, Packages & Interfaces • Advance Programming Concepts • HTML and JAVA Applet • JAVA Library • JAVA AWT • Event Handling • Software Development using Java • JDBC • Internet
- Appendices
- · Bibliography
- Previous Year Question Papers
- Index.

PRINCIPLES ELECTRONICS

ELECTRONIC DEVICES AND CIRCUITS (For Science Based Open Elective)

Code: BOE308/408

Size: $20 \times 30/8$ Pages: 450 Approx. ISBN: 978-93-5014-723-8

Price: ₹ 595/-

Reprint: 2024



CONTENTS

• Electronic Components and Voltage Sources • Semiconductor Physics • Semiconductor Diode • Transistors • Single Stage Small Signal Transistor Amplifier • Multistage Transistor Amplifier • Power Amplifiers • Tuned Amplifier • Feedback Amplifiers

· Sinusoidal Oscillators · Operational Amplifiers and their Applications • Waveshaping Circuits • Filters and Regulated Power Supply • Photoelectronic Devices and their Applications Phase Locked Loop (PLL) and Voltage Controlled Oscillator (VCO) • Digital Techniques • Time Base Generators and Cathode Ray Oscilloscope (CRO) • Thyristors and Unijunction Transistor • Laboratory Experiments • Index.

By

Dr. S.K. Bhattacharya

SECOND YEAR THIRD AND FOURTH SEMESTER

DIGITAL **ELECTRONICS**

(For Science Based Open Elective)

Code: BOE310/410

Size: $20 \times 30/8$ Pages: 575 Approx.

ISBN: 978-81-907386-7-5

Price: ₹ 695/-Reprint: 2025



Dr. Sanjay Sharma

CONTENTS

Unit-I: • Digital System and Binary Numbers • Gate Level Minimization.

Unit-II: • Combinational Logic.

Unit-III : • Synchronous Sequential Logic: Flip-Flops • Synchronous Sequential Logic: Shift Registers • Counters and Analysis and Synthesis of Synchronous Sequential Circuits.

Unit-IV: • Introduction to Memories • Programmable Logic Devices • Design at the Register Transfer Level: ASMs

Unit-V: • Asynchronous Sequential Logic • Introduction to Hazards

- Previous Year Question Papers
- Index

ELECTRONIC DEVICES AND CIRCUITS

(For Science Based Open Elective)

Code: BOE308/408

Size: $23 \times 36/8$

Pages: 1150 Approx.

ISBN 13: 978-93-5014-314-8

ISBN 10: 81-85749-75-2

Price: ₹ 995/-Reprint: 2025

J.B. Gupta

CONTENTS

* Autorprocessors Section VIII (Electronic Measurements and Instrumentation) * Electronic (Analog as Well as Digital) Instruments * Cathode Ray Oscilloscope * Transducers

*Objective Type Questions * Appendices * Index.

Fundamentals of

ELECTRONIC DEVICES

(For ECE Branch)

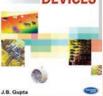
Code: BEC301

Size: $20 \times 30/8$ Pages: 425 Approx.

ISBN: 978-93-80027-74-6

Price: ₹ 495/-Reprint: 2025

ELECTRONIC DEVICES



J.B. Gupta

CONTENTS

Unit-I: Crystal Properties and Charge Carriers in Semiconductors

• Semiconductor Materials and Crystal Properties • Energy Bands and Charge Carriers in Semiconductors

Unit-II: Excess Carriers in Semiconductors

· Excess Carriers in Semiconductors.

Unit-III: Junction Properties

• Junction Properties • Junction Properties (Continued).

Unit-IV: Transistors

• Bipolar Junction Transistors (BJTs) • Field-Effect Transistors.

Unit-V: Some Special Devices

• Photonic Devices • Negative Conductance Microwave Devices

• Power Devices • Appendices • Model Test Papers • University

Examination Paper • Index.

A Text book of **ELECTRONIC ENGINEERING**

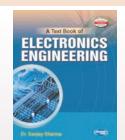
(For Science Based Open Elective)

Code: BOE309/409

Size: $20 \times 30/8$ Pages: 575 Approx.

ISBN: 978-93-5014-438-1

Price: ₹ 695/-Reprint: 2025



ByDr. Sanjay Sharma

CONTENTS

Unit One: • Semiconductor Materials • Semiconductor Diodes • Diode Applications • Special Purpose Two Terminal Devices Unit Two: • Bipolar Junction Transistor • DC Biasing BJTs

• Single Stage Transistor Amplifier • Field Effect Transistor

Unit Three: • Operational Amplifier Unit Four: • Electronic Instruments

Unit Five: • Fundamentals of Communication Engineering: Introduction • Fundamentals of Communication Engineering: Amplitude Modulation • Fundamentals of Communication Engineering: Angle Modulation

· Model Question Papers

• Index

SECOND YEAR

THIRD AND FOURTH SEMESTER

DIGITAL SYSTEMS DESIGN

(For EC and Related Branches)

Code: BEC302

Size: 20 × 30/8 Pages: 350 Approx. ISBN: 978-93-5014-Price: ₹ 425/-

Edition: 2024



By Dr. Sanjay Sharma Asheesh Tiwari

CONTENTS

Releasingshortly

NETWORK THEORY

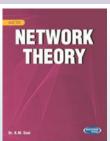
(For EC and Related Branches)

Code: BEC303

Size: 20 × 30/8 Pages: 650 Approx.

ISBN: 978-81-906919-5-6

Price: ₹ 795/-Reprint: 2025



By Dr. K.M. Soni

CONTENTS

• Introduction to Circuit Elements • Signals and Waveform Synthesis • Circuit Analysis by Classical Method • Phasor Algebra and AC Circuits • Single and Three Phase Alternating Currents • Laplace Transform and its Applications • Network Theorems • Two Port Networks • Network Functions and Responses • Network Synthesis • Filter Synthesis • Fourier Series • Fourier Transform and its Applications • Magnetically Coupled Circuits • Graph Theory • Appendices • Appendies • Experiments • Index.

Fundamentals of COMMUNICATION ENGINEERING

(For EC and Related Branches)

Code: BEC401

Size: 20 × 30/8 Pages: 550 Approx ISBN: 978-93-5014-238-7

Price: ₹ 695/-Reprint: 2025



By Dr. Sanjay Sharma

CONTENTS

Unit I

• Introduction • Amplitude Modulation • Single Sideband Modulation • Radio Receivers.

Unit II

• Angle Modulation • Noise • Noise Analysis in Communication Systems.

Unit III

• Analog Pulse Modulation • Digital Transmission • Digital Modulation Techniques.

Unit IV

• Radio Wave Propagation • Satellite Communication • Wireless Systems and Standards.

Unit V

• Television • Fibre Optical Communication • Index.

ANALOG INTEGRATED CIRCUITS

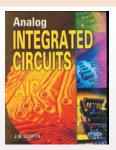
(For EC and Related Branches)

Code: BEC402

Size: 20 × 30/8 Pages: 400 Approx.

ISBN: 978-81-89757-75-5

Price: ₹ 595/-Reprint: 2025



By J.B. Gupta

CONTENTS

Unit-I: IC Op-Amp Applications • Differential Amplifiers • Operational Amplifiers and Their Parameters • Op-Amps with Negative Feedback • Linear Applications of Op-Amps

Unit-II: Waveform Generators • Waveform Generators

• Digitally Controlled Frequency Synthesizers Unit-III: Active Filters • Active Filters.

Unit-IV: Non-Linear Circuits • Non-Linear Circuits

Operational Transconductor Amplifier (OTA).

Unit-V: Voltage Regulators

Voltage Regulators

Appendices

• Technical University Question Papers

• Index.

THIRD AND FOURTH SEMESTER

SECOND YEAR

SIGNALS AND **SYSTEMS**

(For EC and Related Branches)

Code: BEC403/BEE303

Size: $20 \times 30/8$ Pages: 600 Approx.

ISBN: 978-93-5014-013-0

Price: ₹ 795/-Reprint: 2025



By Dr. Sanjay Sharma

CONTENTS

Unit-I: • Signals.

Unit-II: • The Laplace Transform (LT) • The Z-Transform.

Unit-III: • Continuous-Time Fourier Transform (CTFT) Discrete-Time Fourier Transform (DTFT).

Unit-IV: • Systems • Correlation, ESD and PSD.

Unit-V: • Time and Frequency Domain Analysis of Systems

• Previous Year Question Papers • Index.

SIGNALS AND SYSTEMS

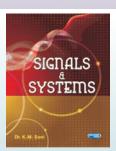
(For EC and Related Branches)

Code: BEC403/BEE303

Size: $20 \times 30/8$ Pages: 425 Approx

ISBN: 978-81-89757-29-8

Price: ₹ 495/-Reprint: 2025



BvDr. K.M. Soni

CONTENTS

- Signals
- · Laplace Transform and its Applications
- z-Transform and its Applications
- Fourier Series
- Fourier Transform and its Applications
- Fourier Analysis of Discrete-Time Signals and Systems
- Systems
- Linear Time Invariant Systems
- Continuous Time Convolution and Correlation Time and Frequency Domain Analysis of Systems
- Sampling
- Appendices
- Index.

Basics of SIGNALS & SYSTEMS

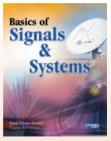
(For EE and Related Branches)

Code: BEE303

Size: $20 \times 30/8$ Pages: 275 Approx.

ISBN: 978-93-5014-479-4

Price: ₹ 325/-Reprint: 2024



By **Sved Hasan Saeed** Faizan Arif Khan

Introduction to Continuous Time Signals and Systems

· Analogous System · The Laplace Transform · Fourier Series

• Fourier Transform • State Variable Analysis • Z-Transform

• Previous Year Question Papers • Index.

ELECTRICAL MEASUREMENTS AND MEASURING INSTRUMENTS

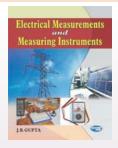
(For EE and Related Branches) Code: BEE302

Size: $20 \times 30/8$

Pages: 725 Approx ISBN 13: 978-81-88458-26-4

ISBN 10: 81-88458-26-0

Price: ₹ 795/-Reprint: 2024



ByJ.B. Gupta

CONTENTS

Section-I: Philosophy of Measurement • Measurements and Measurement Systems • Units and Standards of Measurements • Errors in Measurements and their Analysis • Measuring System Fundamentals Section-II: General Theory of Analog Measuring Instruments

· Analog Ammeters and Voltmeters · Extension of Instrument Range · Analog Measurement of Power and Wattmeters · Measurement of Energy and Energy Meters • Measurement of Speed, Frequency and Power Factor

Section-III: Potentiometers and Measurement of Parameters

• Potentiometers • Measurement of Resistance • Localization of Cable Faults • AC Bridges

Section-IV: Magnetic Measurements and Signal Analyzers • Magnetic Measurements • Signal Analyzers

Section-V: Electronic Measurements and Instrumentation
• Electronic Instruments • Cathode Ray Oscilloscope • Digital Instruments • Digital Devices • Transducers • Objective Type Question • Index.

SECOND YEAR

THIRD AND FOURTH SEMESTER

ELECTRIC AND HYBRID VEHICLE

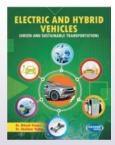
(Green and Sustainable Transportation)
(For Science Based Open Elective)

Code: BOE301/401

Size: $20 \times 30/8$ Pages: 300 Approx.

ISBN: 978-81-963589-0-7

Price: ₹ 595/-Reprint: 2025



By Dr. Nitesh Tiwari Dr. Shekhar Yadav

CONTENTS

• Introduction to Electric Vehicles • Electric Motor Drives for EV Application • EV Battries and Battery Management System • Charging System Design Technology for EV Applications • Planning for EV Charging Facility • Energy Storage • AC Motor Drive • Regenerative Braking System • Energy Management Strategy • Hybrid Electric Vehicle • Mechanical Design of a Vehicle • Previous Examination Papers • Index .

A Text Book on ENERGY SCIENCE AND ENGINEERING

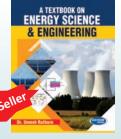
(For Science Based Open Elective)

Code: BOE304/404

Size: $20 \times 30/8$ Pages: 350 Approx.

ISBN: 978-93-5014-743-6

Price: ₹ 495/-Reprint: 2025



By Dr. Umesh Rathore

CONTENTS

Energy and its Usages
 Nuclear Energy
 Conventional & Non-Conventional Energy Sources
 Systems and Synthesis
 Index.

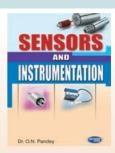
SENSORS AND INSTRUMENTATION

(For Science Based Open Elective)

Code: BOE305/405

Size: 20 × 26/8 Pages: 400 Approx. ISBN: 978-93-5014-483-1

Price: ₹ 395/-Reprint: 2024



By Dr. O.N. Pandey

CONTENTS

Introduction
 Displacement Sensors and Strain Gauges
 Pressure and Temperature Sensors
 Flow Sensors and Level Sensors
 Signals, Bridges and Processing Circuits
 Digital Processing of Analog Signal
 Display Devices
 Recorders
 Virtual Instrumentation
 Data Transmission and Telemetry

• Measurement Errors • Voltmeters and Multimeters • DC and AĆ Bridge Circuits • Signal Analysis • Relays, Circuit Breakers and Intelligent Electronic Sensors • Metrology and Inspection • Supplementary on Pressure Measurements • Supplementary on Flow Measurements • Supplementary on Temperature Measurements • Supplementary on Level Measurements

• Process Industries • Chemical Processes • Food Processing

• Environmental Analysis and Monitoring • Glossaries • Appendices • Sample Question Papers • References • Index.

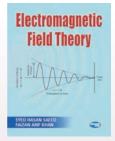
ELECTROMAGNETIC FIELD THEORY

(For EE and Related Branches)

Code: BEE301

Size: 20 × 30/8 Pages: 350 Approx. ISBN: 978-93-5014-561-6

Price: ₹ 495/-Reprint: 2024



By Syed Hasan Saeed Faizan Arif Khan

CONTENTS

Vectors • Electrostatics • Electric Field in Materials
 • Magnetostatics & Magnetic Field in Materials • Electromagnetic
 • Waves • Transmission Lines • Objective Type Questions
 • Previous Year Question Papers • Index.

THIRD AND FOURTH SEMESTER SECOND YEAR

ELECTROMECHANICAL ENERGY CONVERSION-I

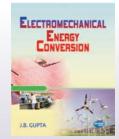
(For EE and Related Branches)

Code: BEE402

Size: $20 \times 30/8$ Pages: 500 Approx.

ISBN: 978-93-5014-012-3 Price: ₹ 595/-

Price: ₹ 595/-Reprint: 2025



By J.B. Gupta

CONTENTS

Unit-I: Principles of Electromechanical Energy Conversion

• Magnetic Circuits and Induction • Principles of Electromechanical Energy Conversion • Basic Concepts of Rotating Electrical Mechines

Unit-II: DC Machines

• Construction of DC Machines • Armature Reaction and Communitation in DC Machines • Operating Characteristics and Applications of DC Generators

Unit-III: DC Machines (Continued)

Operating Characteristics and Applications of DC Motors

• Speed Control, Starting and Testing of DC Machines

Unit-IV: Single Phase Transformer

• Single Phase Transformers Unit-V: Three Phase Transformers

NETWORK ANALYSIS AND SYNTHESIS

(For EE and Related Branches)

Code: BEE403

Size: $20 \times 30/8$ Pages: 575 Approx

ISBN 13: 978-81-88458-24-0 ISBN 10: 81-88458-24-4

Price: ₹ 695/-Reprint: 2025

NETWORK ANALYSIS AND SYNTHESIS

By Dr. K.M. Soni

CONTENTS

Introduction • Signals and Waveform Synthesis • Graph Theory
 Transient Circuit Analysis • Network Theorems • Two Port
 Networks • Network Functions • Stability and Responses
 Network Synthesis • Filters • Appendix • Previous Year Question

Paper • Bibliography • Index.

A Textbook of MATERIAL SCIENCE

(For Science Based Open Elective)

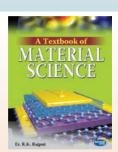
Code: BOE303/403

Size: $20 \times 30/8$ Pages: 625 Approx.

ISBN 13: 978-81-89757-35-9

ISBN 10: 81-89757-35-0 Price: ₹ 850/-

Price: ₹ 850/-Reprint: 2024



By Er. R.K. Rajput

CONTENTS

Unit-I • Introduction: Perspective and Importance of Engineering Materials • Atomic Models Periodic Table and Chemical Bonding • Crystallography • Imperfections (Defects) in Solids.

Unit-II • Mechanical Properties and Testing • Microstructural Examination-Identification of Metals and Alloys • Phase Diagram and Equilibrium Diagram.

Unit-III • Ferrous Metals and Alloys • Heat Treatment • Non-Ferrous Metals and Alloys .

Unit-IV • Magnetic Properties • Electric Properties • Diffusion in Solids

Unit-V • Ceramics • Polymers/Plastics and Composite Materials • Performance of Materials in Service (Fracture, Fatigue and Corrosion and its Control) • Laboratory Practicals • Short Answer Questions • Question Papers • Index.

AUTOMATION AND ROBOTICS

(For Science Based Open Elective)

Code: BOE302/402

Size: 20 × 30/8 Pages: 375 Approx. ISBN: 978-93-5014-246-2

Price: ₹ 595/-Reprint: 2025



By Khushdeep Goyal Deepak Bhandari

CONTENTS

• Automation • Robotics • Robot Elements • Robot Coordinate System and Manipulator Kinematics • Robot Control • Robot Programming • Electrical and Electronic Controls • Computer Integrated Manufacturing Systems • Industrial Applications • Index.

SECOND YEAR THIRD AND FOURTH SEMESTER

POLYMER SCIENC

&

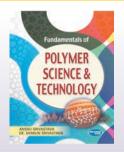
TECHNOLOGY

(For Science Based Open Elective)

Code: BOE311/411

Size: 20 × 30/8 Pages: 300 Approx. ISBN: 978-93-5014-291-2

Price: ₹ 295/-Reprint: 2025



By Anshu Srivastava Er. Shakun Srivastava

CONTENTS

• Introduction, Nomenclature and Classification • Kinetics of Polymerization • Polymer Characterization and Analysis • Chemical and Geometrical Structure of Polymer Molecules and Composites • Organic Polymers • High Performance Polymers • Polymer Processing of High Performance Polymers • Molecular Weight of Polymers • Glass Transition Temperature and Crystallinity of Polymers • Chemistry of Polymerization • Coordination and Co-polymerization • Thermo-plastics and Thermosets or Thermosetting Resin • Elastomers or Rubbers and Silicon Polymers • Natural Polymers • Application of Polymers • Appendices • References • Question Papers • Index.

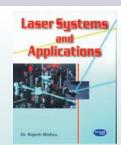
LASER SYSTEMS AND APPLICATIONS

(For Science Based Open Elective)

Code: BOE312/412

Size: 20 × 30/8 Pages: 250 Approx ISBN: 978-93-80027-79-1

Price: ₹ 295/-Reprint: 2025



By Dr. Rajesh Mishra

CONTENTS

- Review of Elementary Quantum Mechanics
- · Introduction to Laser
- · Laser Systems
- Applications of Laser-I
- Applications of Laser-II
- Model Question Papers
- Previous Year Question Paper
- Index.

ENGINEERING MECHANICS

(Statics & Dynamics)

(For ME and Civil Branches)

Code: BCE031

Size: $20 \times 30/8$

Pages: 800 Approx.

ISBN 13: 978-93-5014-292-9

ISBN 10: 81-88458-16-3

Price: ₹ 795/-Reprint: 2022



By Dr. D.S. Kumar

CONTENTS

• Basic Concepts • Co-Planar Forces • Moment of Force and Parallel Forces • Concurrent Forces in Space • Plane Trusses and Frames • Cables and Strings • Centre Points: Centroid and Centre of Gravity • Moment of Inertia: Area and Mass • Friction • Lifting Machines • Shear Force and Bending Moment • Virtual Work

Dynamics: Kinematics and Kinetics

- Rectilinear and Curvilinear Motion Projectiles Rotation and General Plane Motion • Simple Harmonic Motion and Vibrations
- Impact: Collision of Elastic Bodies Kinetics: Impulse, Momentum, Work and Energy • Kinetics of Rigid Body (Rotary Motion) • Power Transmission: Methods and Devices • Index.

ENGINEERING MECHANICS

(With Experiments)
(For ME and Civil Branches)

Code: BCE031

Couc. BeEss

Size: 20 × 30/8

Pages: 600 Approx.

ISBN 13: 978-93-5014-320-9

ISBN 10: 81-88458-23-6

Price: ₹ 795/-Reprint: 2025



By Dr. D.S. Kumar

CONTENTS

• Basic Concepts • Co-Plannar Forces • Moment of Force and Parallel Forces • Friction • Shear Force and Bending Moment • Plane Trusses and Frams • Centroid and Centre of Gravity • Moment of Inertia: Area and Mass • Rectilinear Motion • Rotation and General Plane Motion • Kinetics: Impulse, Momentum, Work and Energy • Kinetics of Rotary Motion • Simple Stresses and Strains • Bending Stresses in Beams • Torsion of Circular Shafts • Appendices • Experiments • Objective Type Questions • Previous Year Question Paper • Index.

SECOND YEAR THIRD AND FOURTH SEMESTER

THERMODYNAMICS

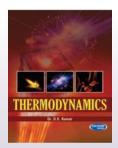
(For ME and Related Branches)

Code: BME301

Size: $20 \times 30/8$ Pages: 575 Approx.

ISBN: 978-93-80027-66-1

Price: ₹ 695/-Reprint: 2025



By Dr. D.S. Kumar

CONTENTS

- Basic Concepts & Definitions Temperature and Zeroth Law of Thermodynamics • Transient Energies: Work and Head • Ideal Gases and their Basic Laws • First Law of Thermodynamics
- Steady Flow Energy Equation (Flow Processes and 1st Law) • Second Law of Thermodynamics • Entropy • Availability and
- Irreversibility Mixture of Gases Steam and its Properties
- Thermodynamic Vapour Cycles Thermodynamic Relations · Refrigeration Systems and Psychrometry · Previous Year
- Question Papers Index.

FLUID MECHANICS

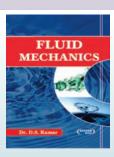
(For ME & Related Branches)

Code: BME302

Size: $20 \times 30/8$ Pages: 525 Approx.

ISBN: 978-93-80027-65-4

Price: ₹ 695/-Reprint: 2025



BvDr. D.S. Kumar

- Introduction Physical Properties of Fluids Fluid Statics Fluid
- Kinematics Fluid Dynamics (Momentum and Energy Principles) Dimensional Analysis and Model Similitude Potential Flow
- Laminar Viscous Flow Turbulence and Turbulent Flow through Pipes • Laminar and Turbulent Boundary Layer Flows • Flow Around Immersed Bodies: Drag and Lift • Fluid Meaurements
- Previous Year Question Papers Index.

MANUFACTURING **PROCESSES**

(For ME and Related Branches)

Code: BME403

Size: $20 \times 30/8$ Pages: 400 Approx.

ISBN: 978-81-89757-56-4 Price: ₹ 495/-Reprint: 2025



By Virender Narula

- Introduction to Manufacturing Processes Industrial Safety • Properties of Engineering Materials • Ferrous Metals • Metal Casting Processes (Foundry) • Special Casting Processes (Contemporary) • Hot Working Processes • Cold Working Processes (Sheet Metal Operations) • Bench Work and Fitting
- Welding (Metal Joining Process) Metal Cutting Processes
- Plant Layout Appendices Previous Years Examination Papers

• Index.

APPLIED THERMODYNAMICS

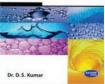
(For ME and Related Branches)

Code: BME401

Size: $20 \times 30/8$ Pages: 525 Approx. ISBN: 978-93-5014-021-5

Price: ₹ 595/-Reprint: 2025





By Dr. D.S. Kumar

CONTENTS

• Basic Concepts and Laws of Thermodynamics • Availability and Irreversibility • Thermodynamic Relations • Fuels and Combustion • Steam and its Properties • Steam Boilers, Mountings and Accessories • Boiler Draught and Boiler Performance • Vapour Power Cycles • Steam Engines • Flow Through Nozzles • Steam Turbines • Steam Condensers • Gas Turbines and Jet Propulsion • Previous Year Question Papers

SECOND YEAR THIRD AND FOURTH SEMESTER

SURVEYING

(Fundamentals and Advance Practices)

(For Civil Branch)

Code: BCE302

Size: $20 \times 30/8$ Pages: 500 Approx.

ISBN: 978-93-5014-655-2

Price: ₹ 595/-Reprint: 2025



Dr. Narayan R. Chandak Prof. Hemraj R. Kumawat

CONTENTS

- Chain and Compass Surveying Levelling Theodolite
- Tacheometry Curves Plane Table Survey and Minor Instruments Triangulation Triangulation Adjustment
- Photogrammetry
 Hydrographic Survey
 Remote Sensing
 Special Survey
 Computation of Area and Volume
- Appendix Experiments Index.

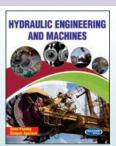
HYDRAULICS ENGINEERING AND MACHINES

(For Civil Branch) Code: BCE403

Size: $20 \times 30/8$ Pages: 300 Approx.

ISBN: 978-93-5014-752-8

Price: ₹ 395/-First Edition: 2024



Bv**Annu Pandey Deepak Agarwal**

• Introduction to Open Channel Flow • Energy Depth Relationship • Rapidly Varied Flow • Impluse Momentum Equation (Hydraulic Machines) • Rotodynamic Machines • Experiments • Examination Paper • References • Index .

A Course in **CIVIL ENGINEERING DRAWING**

(For Civil Branch)

Code: BOE314/414

Size: $23 \times 36/8$ Pages: 575 Approx.

ISBN: 978-93-5014-272-1

Price: ₹ 595/-Reprint: 2024



BvV.B. Sikka

· Draughtsmanship and Engineering Drawing · Conventional Representations, Scale and Abbreviations

Part-I: Building Details

· Masonry · Foundations, Plinth, Damp Proof and Basement • Floors (Ground and Upper Floors) • Forms of Arches, Centering and Lintels • Partition Walls • Joints in Carpentry • Doors and Windows • Roofs (Sloping and Flat) • Retaining Walls • Framed Structures • R.C.C. Structures • Stairs and Staircases • Isometric and Perspective Views • Building Drawing, Planning and Design Part-II: Public Health Engineering

· Public Health Engineering

Part-III: Irrigation

- Irrigation Drawing Swimming Pool Wells and Tube-wells
- Vastu Shastra Bricks "Jali" Work or Bricks Trellis
- Index.

UNIVERSAL HUMAN VALUE AND

PROFESSIONAL ETHICS (Common to all branches)

Code: BVE301/401

Size: $20 \times 30/8$ Pages: 350 Approx. ISBN: 978-93-5014-746-7

Price: ₹ 495/-

Second Edition: 2025



ByDr. Ritu Soryan

n to Value Education

Part—1: Introduction to Value Education

• Understanding Value Education • Self-Exploration Process for Value Education

• Human Aspirations • Prosperity and Happiness • Understanding and Living in Harmony at Various Levels

Part—2: Harmony in Myself—Understanding Harmony in The Human Being

• Understanding Human Being as a Co-Existence of The Sentient 'T and the Material Body • Understanding the need of self (1) and body-Sukh and Suvidha • Understanding the Body as an Instrument of Self (1) • Understanding the Characteristics and Activities of the order of the Material Self (1) • Understanding the Characteristics and Activities of the order of the Material Self (1) • Understanding the Characteristics and Activities of the order of the of Yand Harmony in T* Understanding the Harmony of Twith Body
Part—3: Family & Society – Understanding the Harmony of Twith Body
Part—3: Family & Society – Understanding Harmony in Various Relations
Understanding Harmony in Family Relations • Values in Human-Human Relations
• Understanding Harmony in the Society • Vision of Universal Harmonious Society
Part—4: Harmony in the Nature and Existence—Whole Existence as Co-existence
• Understanding Harmony in Nature • Interconnectedness and Mutual Fulfilment in

Nature • Understanding Existence as Co-existence and Harmony at all Levels of

Part—5: Implementation of Holistic Harmony on Professional Ethics

 Natural Acceptance of Human Values & Ethical Human Conduct • Professional Ethics and Competence • Values and Business Code of Conduct • Transition to Universal.... Human Order

• Unitwise Question Answers • Short Note on Each Topic For Fast Reading • Model Test

Papers • Previous Year Question Paper • Index.

THIRD AND FOURTH SEMESTER

SECOND YEAR

TECHNICAL COMMUNICATION

(Common to all branches)

Code: BAS301/401

Just

Size: 20 × 30/8 Pages: 325 Approx.

ISBN: 978-93-5014-782-5 Price: ₹ 595/-

Reprint: 2025



By Dr. Ritu Soryan

CONTENTS

- Fundamentals of Communication and Voice Dynamics
- · Communication Skills for Career Building
- Communication Skills for Presentation: Writing, Designing and Speaking
- Communication and Leadership Development
- Digital Communication and Personality Making
- Index.

PROBABILITY AND STATISTICS

(Common to all branches)

Code: BAS302/BAS402

Size: 20 × 30/8 Pages: 600 Approx.

ISBN: 978-93-5014-475-6 Price: ₹ 650/-

Price: ₹ 650/-Reprint: 2024



By Dr. Hari Arora

CONTENTS

• Basic Probability • Continuous Probability Distribution • Bivariate Distribution • Basic Statistics • Curve Fitting • Applied Statistics • Hypothesis Testing-Small Samples • Partial Differential Equations • Appendix • Index.

NUMERICAL METHODS

FOR

ENGINEERS AND SCIENTISTS

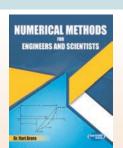
(Common to all branches)

Code: BAS302/BAS402

Size: 20 × 30/8 Pages: 550 Approx.

ISBN: 978-93-5014-729-0

Price: ₹ 595/-Reprint: 2025



By Dr. Hari Arora

CONTENTS

- Errors and Approximations in Numerical Computations • Solution of Algebraic and Transcendental Equations • Matrix and Determinants • Matrix Inversion and Eigen Value Problem • Curve Fitting • Caculus of Finite Differences • Interpolation
- Curve Fitting Calculus of Finite Differences Interpolation with Equal and Unequal Intervals Numerical Differentiation and Integration Numerical Integration Numerical Solution of Ordinary Differential Equations Numerical Solution of Partial Differential Equations Index.

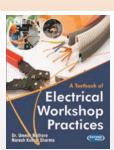
A Textbook of ELECTRICAL WORKSHOP PRACTICE

Code: BEE353

Size: 20 × 30/8 Pages: 350 Approx.

ISBN: 978-93-5014-695-8

Price: ₹ 425/-Reprint: 2024



By

Dr. Umesh Rathore Naresh Kumar Sharma



- Electrical Safety
- · Tools and Equipment in Electrical Workshop
- Electrical Wiring Systems
- Earthing System in Electrical Installation
- Installation, Maintenance and Testing of Electrical Machines and Equipment
- Practical Jobs/Exercises in Electrical Workshop
- Index.

SECOND YEAR

THIRD AND FOURTH SEMESTER

EFFECTIVE TECHNICAL COMMUNICATION

(Common to all branches)

Code: BVE301/401

Size: 20 × 30/8 Pages: 375 Approx. ISBN: 978-93-5014-656-9

Price: ₹ 495/-Reprint: 2025



By Dr. Bharti Kukreja

CONTENTS

- Fundamentals of Communication
- Dynamics of Communication
- Technical Communication
- Technical Writing
- Self-Development and Assessment
- Business Communication
- Presentation Skills
- Ethics and Etiquettes
- Gramma
- Index.

OPERATING SYSTEM

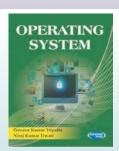
(For CS, IT and Related Branches)

Code: BCE403

Size: 20 × 30/8 Pages: 400 Approx. ISBN: 978-93-5014-790-0

Price: ₹ 595/-

First Edition: 2024-2025



By Praveen Kumar Tripathi Niraj Kumar Tiwari

CONTENTS

 \bullet Introduction to Operating System \bullet Concurrent Processes \bullet CPU Scheduling \bullet Memory Management \bullet I/O Management and Disk Scheduling \bullet Index.

SENSORS AND INSTRUMENTATION

(For Science Based Open Elective)

Code: BOE305/405

Size: 20 × 30/8 Pages: 300 Approx. ISBN: 978-93-5014-779-5

Price: ₹ 395/-First Edition: 2025



By Mayur Srivastava Jaspreet Srivastava Monica Mehrotra

- Sensors & Transducers
- Measurement of Temperature
- Virtual Instrumentation
- Data Acquisition Methods
- Intelligent Sensors
- Previous Examination Papers
- Index.

THIRD YEAR

DATABASE MANAGEMENT SYSTEM

(For CS and Related Branches)

Code: BCS501

Size: 20 × 30/8 Pages: 400 Approx. ISBN: 978-81-89757-78-6

Price: ₹ 495/-Reprint: 2025



By P.K. Yadav

CONTENTS

- Introduction to DBMS Data Modelling Using the E-R- Model
- Relational Data Model and Language Introduction to SQL
- Normalization Transaction Processing Concepts
- Serializability and Deadlock Handing Concurrency Control Techniques Competative Quiz A Practical Approach to SQL
- Tutorial Exercises Previous Year Question Papers Index.

DATABASE MANAGEMENT SYSTEM

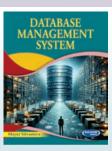
(For CS and Related Branches)

Code: BCS501

Size: 20 × 30/8 Pages: 400 Approx.

ISBN: 978 Price: ₹

First Edition: 2025



By Mayur Srivastava

CONTENTS

Releasingshortly

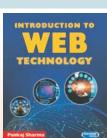
Introduction to WEB TECHNOLOGY

(For CS and Related Branches)

Code: BCS502

Size: 20 × 30/8 Pages: 625 Approx. ISBN: 978-81-89757-63-2

Price: ₹ 725/-Reprint: 2025



By Pankaj Sharma

CONTENTS

• Introduction and Web Development Strategies • HTML (Hypertext Markup Language) • Cascaded Style Sheet (CSS) • XML (Extensible Markup Language) • Javascript and AJAX • RMI and VBScript • CGI and PERL• ASP and ASP.NET (Active Server Page) • JSP (Java Server Pages) • JSP Directives, Standard Actions and COM/DCOM • PHP (Hypertext Preprocessor) • JAVA Beans • Servlet • JDBC (Java Database Connectivity) • Appendix • Model Question Papers • Previous Year Question Papers (Solved) • Index.

DESIGN AND ANALYSIS OF ALGORITHMS

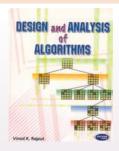
(For CS and Related Branches)

Code: BCS503

Size: $20 \times 30/8$ Pages: 650 Approx.

ISBN: 978-93-5014-091-8

Price: ₹ 795/-Reprint: 2025



By Vinod K. Rajput

CONTENTS

• Introduction • Growth of Functions • Recurrence • Sorting Algorithms • Divide and Conquer • Heapsort • Quicksort • Sorting in Linear Time • Median and Order Statistics • Red Black Tree • Augmenting Data Structures • Dynamic Programming • Greedy Algorithms • Amortized Analysis • B-ree • Binomial Heaps • Fibonacci Heaps • Data Structures for Disjoint Sets • Backtracking • Branch and Bound • Elementary Graph Algorithms • Minimum Spanning Tree • Single Source Shortest Paths • All Pairs Shortest Paths • Maximum Flow • Sorting Networks • Matrix Operations • Polynomials and the FFT • Number Theoretic Algorithms • String Matching • NP-Completeness • Approximation Algorithms • Previous Year Question Papers • Bibliography • Index.

FIFTH AND SIXTH SEMESTER

DATA ANALYTICS

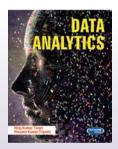
(For CS (DE-1), IT and related Branches)

Code: BCS052/BIT601

Size: $20 \times 30/8$ Pages: 350 Approx.

ISBN: 978-93-5014-740-5

Price: ₹ 495/-Reprint: 2025



Niraj Kumar Tiwari Praveen Kumar Tripathi

CONTENTS

- Introduction to Data Analytics Data Analysis Mining and Data Streams • Frequent Itemsets and Clustering • Framework and Visualisation
- · Previous Year Examination Paper
- Index.

COMPUTER **GRAPHICS**

(For CS (DE-1) and related Branches)

Code: BCS053

Size: $20 \times 30/8$ Pages: 500 Approx

ISBN: 978-93-80027-70-8

Price: ₹ 595/-Reprint: 2025



Udit Agarwal

- Introduction to Computer Graphics Graphics Primitives
- Images Mathematics for Computer Graphics Scan Conversion Polygons Segments 2-D Transformation
- Windows and Clipping
 3-D Transformation
 Three Dimensional Projections • Interaction • Hidden Lines and Surfaces • Introduction to Curve Generation • Rendering and Illumination • Colour Models • Graphics Programming Using OpenGL • Animation • Graphical Kernal System (GKS) • Lab Programs • Previous Year Question Papers • Index.

MACHINE LEARNING

(For CS (DE-2), IT and related Branches)

Code: BCS055/BCAI601/ **BCDS062**

Size: $20 \times 30/8$ Pages: 375 Approx. ISBN: 978-93-5014-734-4

Price: ₹ 495/-

Second Edition: 2024-2025



Bv

Dr. Himanshu Sharma

- · Basic Concepts in Machine Learning
- Supervised Learning
- · Unsupervised Learning
- Concept Learning
- Decision Tree Learning • Artificial Neural Networks (ANN)
- Genetic Algorithms (GA)
- · Reinforcement Learning
- · Bayesian Decision Theory and Bayesin Learning
- · Statistics for Hypothesis Evaluation
- Computational Learning Theory (CLT)
- Instance-Based Learning (IBL) Experiments
- Appendix
- Examination Papers
- Index.

SOFT COMPUTING

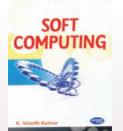
(For CS (DE-2) and related Branches)

Code: BCS056

Size: $20 \times 30/8$ Pages: 350 Approx.

ISBN: 978-93-5014-007-9

Price: ₹ 495/-Reprint: 2025



ByK. Vinoth Kumar

- Introduction
- Introduction to Neural Networks
- Artificial Neural Model
- Single Layer Feed-forward Neural Network
- · Multilayer Feed forward Neural Networks
- · Associative Memory Network
- · Classical and Fuzzy Sets • Fuzzy Logic System Components
- Neural Network Application
- Genetic Algorithms
- Neuro-Fuzzy Systems
- Fuzzy Arithmetic
- Fuzzy Logic
- Uncertainty Based Information
- References

THIRD YEAR

SOFT COMPUTING

(For CS (DE-2) and related Branches)

Code: BCS056

Size: $20 \times 30/8$ Pages: 325 Approx.

ISBN: 978-93-5014-149-6

Price: ₹ 395/-Reprint: 2024



By Dr. Neeta Awasthy

CONTENTS

- Neural Networks-I (Introduction and Architecture)
- Neural Networks-II (Back Propagation Networks)
- Fuzzy Logic-I (Introduction)
- Fuzzy Logic- II (Fuzzy Membership, Rules)
- Genetic Algorithm (GA)
- Annexures
- Model Question Papers
- Previous Year Question Papers
- References
- Index.

DIGITAL IMAGE PROCESSING

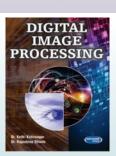
(For CS (DE-2), IT (DE-2) and Related Branches)

Code: BCS057

Size: $20 \times 30/8$ Pages: 350 Approx

ISBN: 978-93-5014-645-3

Price: ₹ 495/-Reprint: 2024



By Dr. Ketki Kshirsagar Dr. Rajeshree Shinde

CONTENTS

- Continuous, Digital and Discrete Image Processing
- Introduction: Digital Image Processing Two-Dimensional Transforms Image Enhancement and Restoration Image Restoration Colour Image Processing Image Compression
- Image Registration Image Segmentation and Morphology
- Representation and Description Object Recognition and Applications Video Formation, Perception and Representation
- Two-Dimensional Motion Estimation Speech Processing
- Model Question Papers Index.

DATA MINING AND DATA WAREHOUSING

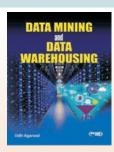
(For CS (DE-2), IT (DE-2) and Related Branches)

Code: BCS058

Size: $20 \times 30/8$ Pages: 450 Approx.

ISBN: 978-93-5014-490-9

Price: ₹ 595/-Third Edition: 2025



By Udit Agarwal

CONTENTS

- Introduction to Data Warehousing Data Warehouse Process and Technology • Client Server Computing • Designing a Data Warehouse • Introduction to Data Mining • Data Preprocessing
- Data Reduction Concept Description in Data Mining
- Classification and Predictions Clustering Analysis
- Association Rules Data Visualization and Overall Perspective
 Data Mining Interface and Security Artificial Neural Networks
- Genetic Algorithm Support to Data Mining Multimedia and
- Web Data Mining Glossary Solved Questions with Answers
- Multiple Choice Questions Examination Papers Index.

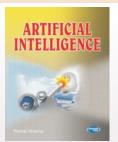
ARTIFICIAL INTELLIGENCE

(For CS (AI) and Related Branches)

Code: BCAI501

Size: 20 × 30/8 Pages: 400 Approx. ISBN: 978-93-80027-05-0

Price: ₹ 525/-Reprint: 2025



CONTENTS

- Introduction to Artificial Intelligence
- Introduction to Search Algorithms
- Knowledge Representation and Reasoning
- Machine Learning
- Pattern Recognition
- Classification Techniques
- Introduction to Prolog and LISP
- Glossary
- Appendices
- Model Question Papers
- Previous Year Question Papers
- Index.

By Pankaj Gupta

FIFTH AND SIXTH SEMESTER

MATHEMATICAL FOUNDATION AI, MLAND DATA SCIENCE

(For Department Elective-I)

Code: BCAI051

Size: 20 × 30/8 Pages: 350 Approx. ISBN: 978-93-5014-

Price: ₹ 495/-First Edition: 2025

MATHEMATICAL FOUNDATION AI, ML AND DATA SCIENCE

Rajni Ajay Kumar Gupta Kanika Agarwal

By Rajni Ajay Kumar Gupta Kanika Agarwal

CONTENTS

Releasingshortly

BUSINESS INTELLIGENCE AND ANALYTICS

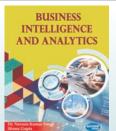
(For Department Elective-I)

Code: BCDS051

Size: 20 × 30/8 Pages: 325 Approx

ISBN: 978-93-5014-794-8

Price: ₹ 495/-First Edition: 2025



By

Dr. Naveen Kumar Singh Shanu Gupta

CONTENTS

- Business Intelligence Introduction: Architectural Representation of Business Intelligence • Data Mining • Data Mining Architecture • Functionalities of Data Mining • Introduction to Data Warehousing • Schema of Data Warehousing • Data Preparation • Data Analytics Process
- Implementation of Business Intelligence Sample Question Papers Index.

CLOUD COMPUTING

(Scope, Challenges and Solutions)

(For CS (DE-2) and Related Branches)

Code: BCAM051

Size: 20 × 30/8 Pages: 450 Approx. ISBN: 978-93-5014-658-3

Price: ₹ 495/-Reprint: 2024



By Ashish Bhatnagar Shailza Sharma

CONTENTS

- Introduction to IoT
- IoT and its Components
- Iot Application Development and Design Challanges
- IIoT Industrial to IoT
- Fog Computing
- Appendix
- Index.

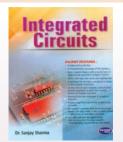
INTEGRATED CIRCUITS

(For EC and Related Branches)

Code: BEC501

Size: 20 × 30/8 Pages: 500 Approx. ISBN: 978-93-5014-058-1

Price: ₹ 695/-Reprint: 2025



By Dr. Sanjay Sharma

CONTENTS

Unit I

• Analog Integrated Circuit Design: An Overview • The 741 IC Op-Amp.

Unit II

Linear Applications of IC Op-Amps
 Filters
 Sinusoidal Oscillators

Unit III

• Digital Integrated Circuits Design.

Unit IV

- • Non-Linear Applications of IC Op-Amps • Analog Multipliers. **Unit V**
- D/A and A/D Converters Integrated Circuit Timer Phase Locked Loops (PLL) Previous Year Question Paper Index.

THIRD YEAR

MICROPROCESSOR AND MICROCONTROLLERS

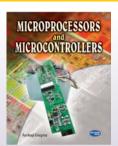
(For EC and Related Branches)

Code: BEC502

Size: $20 \times 30/8$ Pages: 275 Approx.

ISBN: 978-93-5014-446-6

Price: ₹ 395/-Reprint: 2025



Ankaj Gupta

CONTENTS

- Introduction to Microprocessor
- Introduction to 8085 Microprocessor
- 8085 Instruction and Programming
- 8051 Microcontroller
- 8051 Assembly Language Programming
- Serial Communication
- 8051 Interfacing with Real Time Application
- AVR Microcontrollers
- Appendices
- Glossary Bibliography
- · Model Test Papers
- Index.

MICROPROCESSOR AND MICROCONTROLLERS

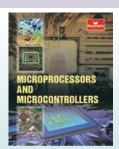
(For EC and Related Branches)

Code: BEC502

Size: $20 \times 30/8$ Pages: 450 Approx.

ISBN: 978-93-83992-00-3

Price: ₹ 595/-Reprint: 2024



Bv

Deepak Gupta, Sushil Kumar, Khushboo, Sonika Pahuja

DIGITAL SIGNAL PROCESSING

(For EC, EE (DE-2) and Related Branches)

Code: BEC503/BEE057

Size: $20 \times 30/8$ Pages: 475 Approx. ISBN: 978-93-80027-16-6

Price: ₹ 595/-Reprint: 2025



Dr. Sanjay Sharma

CONTENTS

Papers • Index.

Unit-I:

• Introduction to Digital Signal Processing (DSP) • Realisation of Digital Systems.

• Introduction to Microprocessor System: Intel 8085 • 8086 Microprocessor • Instruction Set of 8086 • Assembly Language

Programming • 8086 Interrupts and 8259 PIC • Programming Peripheral Interface-8255 • Programmable Interval

Timer/Counter-8253/8254 • Keyboard/Display Controller-Intel

8279 • 8251 USART • Memory and I/O Interfacing of 8086 • Intel

8051 Microcontroller Hardware Architecture • Intel 8051 Microcontroller Instruction Set and Programming • Examination

Unit-II

- · Design of Infinite Impulse Response Digital Filters.
- Finite Impulse Response Filter Design. Unit-IV

• Discrete Fourier Transforms (DFT).

Unit-V

• Fast Fourier Transform Algorithms • Appendices • Previous Year Question Paper • Index.

INTERNET OF THINGS (IoT)

A Practitioner's Approach

(For EC (DE-1), ME and Related Branches) Code: BEC051/BME553

Size: $20 \times 30/8$

Pages: 275 Approx. ISBN: 978-93-5014-735-1

Price: ₹ 350/-Reprint: 2024



By Dr. Rajiv Chopra

- Introduction to IoT
- IoT and its Components
- Iot Application Development and Design Challanges
- IIoT Industrial to IoT Fog Computing
- Appendix
- Index.

FIFTH AND SIXTH SEMESTER

Fundamentals of BIOMEDICAL INSTRUMENTATION

(For EC and Related Branches)

Code: BEC052

Size: $20 \times 26/8$ Pages: 375 Approx.

ISBN 13: 978-93-5014-352-0 ISBN 10: 81-88458-07-X

Price: ₹ 395/-Reprint: 2024



By Dr. O.N. Pandey

CONTENTS

- Introduction Bioelectric Potentials Transducers Electrodes
- Cardiovascular Measurements Patient Care and Monitoring
- Measurements in the Respiration System Diagnostic Techniques • Biotelemetry • Therapeutic and Prosthetic Devices
 Nervous System • Ophthalmology Instruments • Some General
- Topics Monitors and Recorders Shock Hazards and Prevention Microprocessors and Computers in Biomedical Instrumentation
- Basic Electronics for Biomedical Instrumentation Practicals in Biomedical Instrumentation Appendices References Model Question Papers Index.

VLSI TECHNOLOGY

(For EC and Related Branches)

Code: BEC054

Size: 20 × 30/8 Pages: 275 Approx.

ISBN: 978-93-5014-503-6 Price: ₹ 395/-

Price: ₹ 395/-Reprint: 2025



By Deepak Garg

CONTENTS

- ERA of Integrated Circuit
- Silicon Wafer Preparation
- Oxidation
- Epitaxial Process
- Diffusion
- Ion Implantation
- Lithography
- Etching
- Metallization
- VLSI Process Integration
- Assembly Techniques and Packaging
- Yield and Reliability
- Examination Paper
- Index

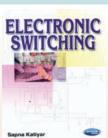
ELECTRONIC SWITCHING

(For EC (DE-2) and Related Branches)

Code: BEC055

Size: 20 × 26/8 Pages: 375 Approx. ISBN: 978-81-89757-68-7

Price: ₹ 395/-Reprint: 2025



By Sapna Katiyar

CONTENTS

 Evolution of Switching System • Introduction to Switching System • Electronic Switching System • Digital Switching

• Space Division Switching • Time Division Switching

• Teletraffic Engineering • Control of Switching Systems • Signalling • Packet Switching • Asynchronous Transfer Mode

(ATM) Network • Appendices • Glossary • Objective Type Questions • Model Test Papers • Previous Year Examination Paper

BIO-MEDICAL SIGNAL

PROCESSING
(For EC (DE-2) and related Branches)

Code: BEC056

Size: 20 × 26/8 Pages: 250 Approx. ISBN: 978-93-80027-26-5

Price: ₹ 295/-Reprint: 2025





By Rakesh Kumar

- Introduction to Biomedical Signal Processing
 Sources of Bioelectric Potentials
 Basics of ECG, EEG, EMG, and ERG
 Transducers and Electrodes and Biomedical Application
 Role
- Transducers and Electrodes and Biomedical Application Role of Computers in Biomedical Instrumentation Data Reduction Techniques ORS Detection Evoked Potential Estimation
- Neurological Signal Processing Monitors and Recorders
- Appendix Index.

THIRD YEAR

OPTICAL COMMUNICATION

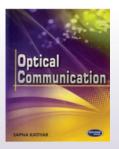
(For EC (DE-2) and Related Branches)

Code: BEC057

Size: $20 \times 26/8$ Pages: 500 Approx.

ISBN: 978-93-80027-81-4

Price: ₹ 495/-Reprint: 2025



By Sapna Katiyar

CONTENTS

• Introduction to Optical Communication • Optical Fiber Waveguides • Optical Fiber Materials and Fabrication Techniques • Transmission Characteristics of Optical Fibers • Optical Fiber • Connectors, Joints, Couplers, Isolators and Measurement Techniques • Optical Sources 1 • The Laser • Optical Sources 2 • The Light Emitting Diode • Power Launching and Coupling • Optical Detectors • Optical Receivers • Link Design and Multichannel Systems • Appendices • Glossary • Objective Type Questions with Answers • Model Test Papers • Previous Year Examination Papers • Index.

Elements of

POWER SYSTEMS

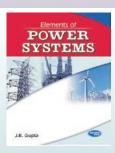
(For EE and Related Branches)

Code: BEE501

Size: $20 \times 30/8$ Pages: 400 Approx.

ISBN: 978-93-5014-043-7

Price: ₹ 595/-Reprint: 2025



J.B. Gupta

CONTENTS

Unit-I: Power System Components, Supply System and Transmission Lines • Power System Components • Supply System • Transmission Lines

Unit-II: Overhead Transmission Lines • Inductance and Capacitance of Transmission Lines • Representation and Performance of Short and Medium Transmission Lines • Representation and Performance of Long Transmission Lines.

Unit-III: Corona and Interference Electrostatic and Electromagnetic Interference with Communication Lines and Overhead Line Insulators • Corona • Electrostatic and Electromagnetic Interference with Communication Lines • Overhead Line Insulators.

Unit-IV: Mechanical Design of Transmission Line and Insulated Cables • Mechanical Design of Transmission Lines • Insulated Cables. Unit-V: Neutral Grounding and EHVAC and HVDC Transmission • Neutral Grounding • Extra High Voltage (EHV) AC Transmission • High Voltage Direct Current (HVDC) Transmission • Examination Papers • Index.

CONTROL SYSTEMS

(For EE and Related Branches)

Code: BEE502

Size: $20 \times 30/8$ Pages: 575 Approx.

ISBN 13: 978-81-88458-03-5 ISBN 10: 81-88458-03-1

Price: ₹ 695/-Reprint: 2025

CONTROL SYSTEMS

By S. Hasan Saeed

CONTENTS

• The Control System • Time Response Analysis • Steady State Errors and Error Constant • Frequency Domain Analysis • Stability Theory • Compensation Techniques • State Space Analysis of Control System • Control System Components • Basic Control Actions and Controller Characteristics • Miscellaneous Problems • MATLAB Programs • Model Test Papers • Previous Year Question Papers with Solutions • References • Index.

ELECTRICAL MACHINE-II

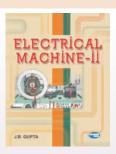
(For EE and Related Branches)

Code: BEE503

Size: $20 \times 30/8$ Pages: 425 Approx.

ISBN: 978-93-5014-518-0

Price: ₹ 595/-Reprint: 2025



By J.B. Gupta

CONTENTS

Unit-I: AC Machine Fundamentals

AC Machine Fundamentals.

Unit-II: Polyphase Induction Motor

 Construction, Theory and Operation of Three Phase Induction Machines • Starting and Speed Control of Three Phase Induction Motors

Unit-III: Single Phase Induction Motor & Special Machines

• Single Phase Induction Motor • Special Machines.

Unit-IV: Synchronous Generators (Alternators)

• Synchronous Generators (Alternators). **Unit-V: Synchronous Motors**

Synchronous Motors

Model Test Papers

• Index.

FIFTH AND SIXTH SEMESTER

AUTOMATION AND ROBOTICS

(For EE (DE-1), ME (DE-3) and Related Branches)

Code: BEE053/BME061

Size: $20 \times 30/8$ Pages: 375 Approx.

ISBN: 978-93-5014-246-2 Price: ₹ 595/-

Reprint: 2025



BvKhushdeep Goyal Deepak Bhandari

CONTENTS

• Automation • Robotics • Robot Elements • Robot Coordinate System and Manipulator Kinematics • Robot Control • Robot Programming • Electrical and Electronic Controls • Computer Integrated Manufacturing Systems • Industrial Applications Index.

OPERATIONS RESEARCH

(For EE (DE-II) and Related Branches)

Code: BEE055

Size: $20 \times 30/8$ Pages: 1200 Approx.

ISBN 13: 978-93-5014-434-3 ISBN 10: 81-85749-24-8

Price: ₹ 995/-Reprint: 2025



A.P. Verma

- · Introduction to Operations Research · Linear Programming Problems: Formulation & Graphical Solution • Simplex Method • Transportation Problems • Assignment Problems • Duality in
- Linear Programming Revised Simplex Method and Bounded Variable Technique • Sensitivity Analysis (Post Optimal Analysis)
- · Goal Programming and Integer Programming · Dynamic Programming • Non-Linear Programming • Probability Theory & Markov Analysis • Sequencing Models • Decision Analysis
- Game Theory (Competitive Strategies) Queuing Models
- Inventory Management Replacement Problems and Reliability Theory • Simulation • Network Models • CPM and PERT
- · Resources Allocation and Scheduling · Information Theory • Geometric Programming & Fractional Programming • Select
- Bibliography Appendix Index Index of Some Typical Problems of OR.

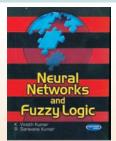
NEURAL NETWORKS AND **FUZZY LOGIC**

(For EE (DE-2) and Related Branches)

Code: BEE056

Size: $20 \times 30/8$ Pages: 350 Approx. ISBN: 978-93-80027-78-4

Price: ₹ 350/-Reprint: 2025



ByK. Vinoth Kumar R. Saravana Kumar

CONTENTS

- Introduction
- · Introduction to Neural Networks
- · Artificial Neural Model
- · Single Layer Feed-forward Neural Network
- Multilayer Feed forward Neural Networks
- Associative Memory Network
- · Classical and Fuzzy Sets • Fuzzy Logic System Components
- Neural Network Application
- · Solved Examination Papers
- References
- Index.

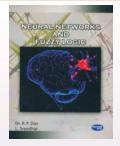
NEURAL NETWORKS **AND FUZZY LOGIC**

(For EE (DE-2) and Related Branches)

Code: BEE056

Size: 20 × 30/8 Pages: 250 Approx. ISBN: 978-93-5014-270-7

Price: ₹ 295/-Reprint: 2025



BvDr. R.P. Das L. Sreedhar

- · Introduction to Biomedical Signal Processing · Sources of Bioelectric Potentials • Basics of ECG, EEG, EMG, and ERG
- Transducers and Electrodes and Biomedical Application Role of Computers in Biomedical Instrumentation • Data Reduction Techniques • ORS Detection • Evoked Potential Estimation
- · Neurological Signal Processing · Monitors and Recorders
- · Appendix · Index.

THIRD YEAR

ANALOG & DIGITAL COMMUNICATION

(For EE (DE-2) and Related Branches)

Code: BEE058

Size: $20 \times 30/8$ Pages: 575 Approx.

ISBN 13: 978-81-89757-52-6 ISBN 10: 81-89757-52-0

Price: ₹ 695/-Reprint: 2025



Dr. Sanjay Sharma

CONTENTS

Unit-I:

• Introduction • Amplitude Modulation • Radio Transmitters

Radio Receivers.

Unit-II:

Angle Modulation • Noise.

Unit-III:

• Sampling Theory and Pulse Modulation • Waveform Coding Techniques.

Unit-IV:

· Digital Modulation Techniques.

Unit-V:

• Digital Multiplexers • Information Theory • Model Question Papers • Previous Year Question Papers • Index.

Basics of

HEAT AND MASS TRANSFER

(For ME and Related Branches)

Code: BME501

Size: $20 \times 30/8$

Pages: 595 Approx. ISBN: 978-93-5014-060-4

Price: ₹ 625/-Reprint: 2025

Basics of **Heat and Mass** Best Seller

ByDr. D.S. Kumar

• Definitions and Basic Concepts • Fourier Equation and Thermal Conductivity • Steady State Conduction • Conduction with Heat Generation • Heat Transfer from Extended Surfaces • Transient (Unsteady State) Heat Conduction • Radiation: Processes and Properties • Radiation Exchange between Surfaces • Convection: Processes and Properties • Empirical Correlations for free and Forced Convection • Hydrodynamic and Thermal Boundary Layers • Condensation and Boiling • Heat Exchangers • Mass Transfer • Bibliography • Index.

A Textbook of MACHINE DESIGN

(For ME and Related Branches)

Code: BME502

Size: $20 \times 30/8$

Pages: 1100 Approx.

ISBN 13: 978-93-5014-281-3

ISBN 10: 81-85749-09-4

Price: ₹ 895/-Reprint: 2024

A Textbook of Machine esign) (SI Units)

Dr. P.C. Sharma Dr. D.K. Aggarwal

Section-I: General • Introduction • Engineering Materials • Stress Analysis • Designing for Strength • Manufacturing Considerations in Design . Seals and Gaskets.

Section-II: Fasteners • Riveted Joints • Welded Joints • Threaded Joints • Eccentric Loading of Riveted, Welded and Threaded Joints • Cotter and Knuckle Joints • Keys and Couplings • Pipe Joints · Levers · Springs.

Section-III: Power Transmission • Shafts and Axles • Bearings • Clutches and Brakes • Belt Drives • Rope Drive • Chain Drives • Gear Drives • Power Screws.

Section-IV: Pressure Vessels • Cylinders, Pipes and Tubes Cylinder Heads and Cover Plates.

Section-V: I.C. Engine Parts • General Design • Design of Principal Parts.

Section-VI: Miscellaneous Topics • Miscellaneous Topics • Appendices • Index.

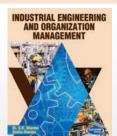
INDUSTRIAL ENGINEERING AND ORGANIZATION MANAGEMENT

(For ME Branch) Code: BME503

Size: $20 \times 30/8$ Pages: 925 Approx.

ISBN: 978-81-85749-13-6

Price: ₹ 995/-Reprint: 2025



Dr. S.K. Sharma Savita Sharma

CONTENTS

• Industrial Engineering and Development of Factory System • Production, Productivity and Business Organization • Locational Economics and Plant Layout • Sales Forecasting • Product Development and Design • Materials Purchase and Store Practice • Production, Planning and Control • Factory Organization • Inspection and Quality Control • Depreciation • Break, Even Analysis • Inventory Control • Wage Payment Plans • Job Evaluation and Merit Rating • Book Keeping and Accountancy • Material Handling • Introduction to Work Study • Motion Study, P.M.T.S., M.T.M. Work Sampling and Principles of Motion Economy • Work Measurement (Time Sampling and Principles of Motion Economy * Work Measurement (* Imstance Study) * Personnel Management and Administration * Industrial Relation, Recruitment, Selection, Training and Industrial Legislation * Cost Accounting, Mechanical Estimation and Cost Estimation * Program Evaluation, Review Techniques and Critical Path Method * Economic Studies for Investment & Replacement * Engineering Economy and the Engineering Process • Financial Management • Introduction to Management and Role of a Manager • Value Analysis • Entrepreneurship • Marketing Management • Operation Research • Manpower Planning • Introduction to MRP, JIT Supply Chain Management and TQM • Maintenance Management • Waste Management • Ergonomics • Bibliography • Index.

FIFTH AND SIXTH SEMESTER

MANUFACTURING PROCESS

(For ME (DE-1) and Related Branches)

Code: BME051

Size: $20 \times 30/8$ Pages: 400 Approx. ISBN: 978-81-89757-56-4

Price: ₹ 550/-Reprint: 2025



ByVirender Narula

CONTENTS

- Introduction to Manufacturing Processes Industrial Safety • Properties of Engineering Materials • Ferrous Metals • Metal Casting Processes (Foundry) • Special Casting Processes
- (Contemporary) Hot Working Processes Cold Working Processes (Sheet Metal Operations) Bench Work and Fitting • Welding (Metal Joining Process) • Metal Cutting Processes
- Plant Layout Appendices Previous Years Examination Papers

IC ENGINES AND **COMPRESSORS**

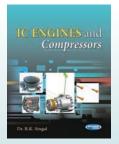
(For ME (DE-1) and Related Branches)

Code: BME052

Size: $20 \times 26/8$ Pages: 275 Approx.

ISBN 13: 978-93-5014-274-5

ISBN 10: 81-88458-50-3 Price: ₹ 295/-Reprint: 2025



By Dr. R.K. Singal

Unit I: Introduction

• Engine Classification • Basic Therminology • Air Standard and Fuel Air Cycles

Unit II: S.I. Engines

- Combustion in S.I. Engines Carburetion Ignition System
- · Scavenging in Two Stroke Engines · Supercharging

Unit III: C.I. Engines

• Combustion in C.I. engines • Fuel Injection System • Exhaust Emission and Control

Unit IV: Common Engine Systems

• Engine Cooling • Engine Lubrication • Engine Fuels • Testing and Performance

Unit V: Compressors

- Reciprocating Compressors Rotary Compressor
- References Previous Year Question Paper Index.

A Textbook of FINITE ELEMENT **METHODS**

(For ME (DE-1) and Related Branches)

Code: BME053

Size: $20 \times 26/8$ Pages: 300 Approx. ISBN: 978-93-5014-713-9

Price: ₹ 295/-Reprint: 2025



Bv**Pushpam Kumar Sinha**

• Introduction • Shape Functions • Variational Approach of FEM Beam Introduction • Two Dimensional Boundary Value Problems • Time-Dependent and Eigenvalue Problems • Other Approaches of FEM• Appendix A: Methods of Weighted Residual (MWR)• Appendix B: Brachistochrone Problem and Its Solution • Appendix C: Finite Element Modeling of Plane Stress, Plain Strain and Axis Symmetry Problems • Index.

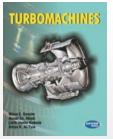
TURBOMACHINES

(For ME (DE-2) and Related Branches)

Code: BME055

Size: $20 \times 30/8$ Pages: 175 Approx. ISBN: 978-93-5014-659-0

Price: ₹ 560/-Reprint: 2025



By Muna S. Kassim Hasan Sh. Majdi Laith Jaafer Habeeb Arkan K. Al-Taie

- · Introduction to Biomedical Signal Processing · Sources of Bioelectric Potentials • Basics of ECG, EEG, EMG, and ERG
- Transducers and Electrodes and Biomedical Application Role of Computers in Biomedical Instrumentation • Data Reduction Techniques • ORS Detection • Evoked Potential Estimation
- · Neurological Signal Processing · Monitors and Recorders
- · Appendix · Index.

THIRD YEAR

MECHANICAL VIBRATIONS

(Theory & Applications)

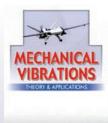
(For ME (DE-2) and Related Branches)

Code: BME056

Size: $20 \times 30/8$ Pages: 450 Approx.

ISBN: 978-93-5014-038-3

Price: ₹ 495/-Reprint: 2025



By R.K. Singal

CONTENTS

Section-I: Basic Concepts and Principles

Basic Concepts • Analysis of Harmonic Motion.

Section-II: Single Degree of Freedom (SDF) Systems

• Free Vibrations of SDF Systems • Free Damped Vibrations of SDF Systems • Forced Vibrations of SDF Systems • Transient Vibration of SDF Systems

Section -III: Two Degree of Freedom (TDF) Systems

• Vibrations of TDF Systems • Vibration Absorber Systems.

Section-IV: Multi Degree of Freedom (MDF) Systems

Vibrations of MDF Systems
 Vibrations of Continuous Systems
 Analysis of MDF Systems by Numerical Methods
 Critical

Speed of Shafts • Design Problems and Experiments.

Section-V: Appendices

Index.

GEOTECHNICAL ENGINEERING

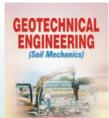
(Soil Mechanics)
(For CE Branch)

Code: BCE501

Size: $20 \times 30/8$ Pages: 375 Approx.

ISBN: 978-93-5014-502-9

Price: ₹ 595/-Reprint: 2025



By Saurabh K. Soni

CONTENTS

- Soil Formation Soil Composition Index Properties of Soil
- Classification of Soil Clay Mineralogy and Soil Structure
 Soil Water System Permeability Seepage Analysis Stress
- Distribution in Soil Mass Compaction Consolidation of Soil
- Shear Strength of Soil Earth Pressure and Retaining Walls • Soil Exploration • Foundation • Bearing Capacity of Shallow Foundations • Experiments • Experiments • Model Question Papers • Index.

GEOTECHNICAL ENGINEERING

LABORATORY MANUAL

(For CE Branch)

Code: BCE501

Size: 23 × 36/8 Pages: 200 Approx. ISBN: 978-

Price: ₹ 425/-First Edition: 2025 GEOTECHNICAL ENGINEERING LABORATORY MANUAL

By Dr. S.K. Panigrahi

CONTENTS

Releasingshortly

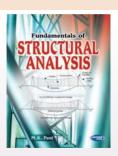
Fundamentals of STRUCTURAL ANALYSIS

(For CE Branch)

Code: BCE502

Size: 20 × 30/8 Pages: 400 Approx. ISBN: 978-93-5014-328-5

Price: ₹ 595/-Reprint: 2025



By M.K. Pant

CONTENTS

Part I

 Introduction
 Statically Determinate and Indeterminate Structures
 Stress and Strains
 Bending Stresses in Beams
 Columns and Struts
 Deflection of Beams
 Principle of Virtual Work Done.

Part II

• Strain Energy Concept–Indeterminate Structures • Slope Deflection Method • Moment Distribution Method • Three Hinged Arch • Shear Force and Bending Moment in Beams and Frames

 Unsymmetrical Bending • Cables and Suspension Bridges
 Analysis of Statically Determinate Trusses/Frames • Theorem of Three Moments • Gravity Dams • Two Hinged Arch • Useful-Data

Index

FIFTH AND SIXTH SEMESTER

CONCRETE TECHNOLOGY

(For CE (DE-1) Branch)

Code: BCE051

Size: $20 \times 30/8$ Pages: 275 Approx.

ISBN: 978-93-5014-587-6

Price: ₹ 365/-Reprint: 2025



By Sachin Rohilla Vipin Rohilla

CONTENTS

Concrete Technology • Ingredients of Concrete • Properties of Concrete • Water Cement Ratio • Workability • Proportioning of Normal Concrete • Admixtures • Special Concrete • Concreting Operations • Non-Destructive Test • Practical Exercises • Index.

BUILDING MATERIALS

&

CONSTRUCTION

(For CE Branch)

Code: BCE052

Size: $20 \times 30/8$ Pages: 500 Approx.

ISBN: 978-93-5014-457-2

Price: ₹ 595/-Reprint: 2025

Building Materials S Construction

By Saurabh K. Soni

CONTENTS

• Classification of Materials • Stones • Bricks and Tiles • Cement

• Concrete • Mortars • Lime • Gypsum • Pozzolanas • Asphalt, Bitumen and Tar • Timber • Plastics • Paints, Distempers and Varnishes • Plastering and Pointing • Ferrous and Non-Ferrous Metals • Glass • Sound Insulation and Acoustics • Damp Proofing and Termite Treatment • Foundation • Partition Walls • Ground and Upper Floor • Stairs • Doors and Windows • Roofs • Lintels and Arches • Ventilation and Air Conditioning • Plumbing Services and Electricity • Thermal Insulation and Fire Protection • Experiments • Model Papers • Index.

ENGINEERING AND GENERAL GEOLOGY

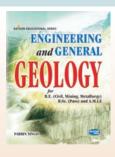
(For CE (DE-1) Branch)
Code: BCE054

Size: $20 \times 30/8$

Pages: 625 Approx. ISBN 13: 978-93-5014-267-7

ISBN 10: 81-88458-51-1

Price: ₹ 550/-Reprint: 2025



By Parbin Singh

CONTENTS

• Introduction • The Earth • Geological Work of Natural Agencies • Geological Work of Water • Geological Work of Glaciers

• Structural Features of Rocks • Structural Features of Rocks (Contd...) • Physiographic Features • The Study of Minerals • The Study of Minerals • The Study of Minerals • Study of Rocks • Contd...) • Economic Mineral Deposits • Stratigraphy of India • Engineering Properties of Rocks • Groundwater • Earthquakes • Mass Movements • Soils • Geological Investigations • Dams and Reservoirs • Tunnels and Road Cuts • Improvement of Sites • Appendix • Index.

INNOVATION &

ENTREPRENEURSHIP

(For Open Elective-I)

Code: BOE060

Size: 20 × 30/8 Pages: 375 Approx. ISBN: 978-81-982470-3-2

Price: ₹ 565/-First Edition: 2025



CONTENTS

- Introduction to Innovation and Entrepreneurship
- Business Models and ValuePropositions
- Product Development and Prototyping Funding and Financial Management
- Scaling and Growth
- Technical Terminology
- Index



By

Dr. Shubhendu Shekher Shukla

THIRD YEAR

OUALITY CONTROL RELIABILITY

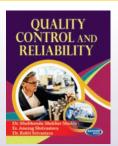
(For Open Elective-I)

Code: BOE061

Size: $20 \times 30/8$ Pages: 250 Approx.

ISBN: 978-81-963589-9-0

Price: ₹ 395/-First Edition: 2025



ByDr. Shubhendu Shekher Shukla Er. Anurag Srivastava Dr. Rohit Srivastava

CONTENTS

• Quality • Statistical Contepts and Control Charts • Total Quality Management • Reliability • Reliability Management • Technical Terminology • Index.



SOFTWARE ENGINEERING

(For CS, IT and Related Branches)

Code: BCS601

Size: $20 \times 30/8$ Pages: 450 Approx.

ISBN: 978-93-5014-236-3

Price: ₹ 495/-Third Edition: 2025



By**Udit Agarwal**

CONTENTS

• Software and Software Engineering • Software Development Life Cycle Models • Software Requirement Specification · Software Reliability and Quality Assurance · Software Development Methodology • Software Project Management • Software Design • Software Measurement and Metrics • Coding and Testing • Software Maintenance • Software Re-Engineering and Reserve Engineering • Computer Aided Software Engineering • Important Questions with Answers • Glossary • Previous Year Question Papers • Bibliography • Index.



Concepts of **COMPILER DESIGN**

(For CS, IT (DE-I) and Related Branches)

Code: BCS602/BIT052

Size: $20 \times 26/8$ Pages: 450 Approx. ISBN: 978-93-5014-126-7

Price: ₹ 495/-

Reprint: 2025



BvAdesh K. Pandey

• Introduction to Compiler • Introduction to Finite Automata and Regular Expression • Lexical Analysis • The Syntactic and Semantic Specification of Languages • Top-Down Parsing • Bottom-up-Parsing • Syntax-Directed Translation • Storage Management • Symbol Table Management • Intermediate Code Generation • Error Detection and Recovery • Code Optimization and Generation • Appendix • Previous Year Examination Papers

COMPUTER NETWORKS

(For CS, IT and Related Branches)

Code: BCS603

Size: $20 \times 30/8$ Pages: 500 Approx. ISBN: 978-81-89757-62-5

Price: ₹ 595/-Reprint: 2025 Computer

ByDr. Sanjay Sharma

CONTENTS

Unit-I

• OSI Reference Model and Network Architecture • Introduction to Physical Layer.

Unit-II

• Data Link Layer and Protocols • Medium Access Sublayer. **Unit-III**

Network Laver.

Unit-IV

• Transport Layer, Session Layer and Presentation Layer.

• Application Layer • World Wide Web • Example of Networks

• Previous Year Question Papers • Index.

FIFTH AND SIXTH SEMESTER

COMPUTER NETWORKS

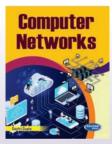
(For CS, IT and Related Branches)

Code: BCS603

Size: $20 \times 30/8$ Pages: 300 Approx.

ISBN: 978-Price: ₹

First Edition: 2025



By **Gaytri Gupta**

CONTENTS



A Textbook of CYBER FORENSIC ANALYTICS

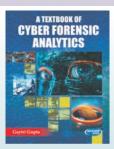
(For Department Elective-III)

Code: BCAI061

Size: $20 \times 30/8$ Pages: 375 Approx.

ISBN: 978-93-5014-791-7 Price: ₹ 595/-

First Edition: 2025



By Gaytri Gupta

CONTENTS

Unit-I • Cyber Crime, Cyber Space and Criminal Behavior • Jurisdictional Concerns and Jurisprudential Inconsistency in Cybercrime • Finance and Specific Cybercrimes • Fraud and Hacking Techniques

Unit-II • Digital Devices and Storage • Forensic Techniques • Software Piracy and Prevention • Steganography and Network Forensics Techniques • Malware Analysis

Unit-III • Fundamentals of Investigation • Understanding Cyber Criminal Profiling Stylometric Analysis • Legal Aspects of Investigation

Unit-IV • Undersanding Evidence: Types, Sources and Importance
• Evidence Collection and Analysis • Managing Evidence

Unit-V • Cyber Laws and Digital Governance • Penalties and Compensation • Future Trends and Emerging Concerns in Cyber Security

• Sample Papers • Index.

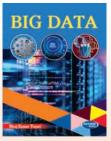
BIG DATA

(For CS (DE-3) and Related Branch)

Code: BCS061/BCDS601

Size: 20 × 30/8 Pages: 300 Approx. ISBN: 978-Price: ₹ 495/-

First Edition: 2025



By Niraj Kumar Tiwari

CONTENTS



BIG DATA ANALYTICS

(For CS (DE-3) and related Branches)

Code: BCS061/BCDS601

Size: 20 × 30/8 Pages: 200 Approx. ISBN: 978-93-83992-25-6

Price: ₹ 250/-Reprint: 2025

(Agency Book)



By Dr. Sudeep Tanwar, Sushil Kumar Singh, Dr. Sudhanshu Tyagi

CONTENTS

• Introduction to Big Data • NOSQL Data Management • Big Data Stack • Basics of HADOOP • Marpreduce Application • HADOOP Related Tools • Big Data Analytics • Integrating Data Sources • Index.

THIRD YEAR

GAME DESIGN

(For CS and Related Branches)

Code: BCD601

Size: $20 \times 30/8$ Pages: 300 Approx. ISBN: 978-

Price: ₹ 595/-First Edition: 2025 GAME DESIGN

> By V. SARITHA

CONTENTS

Releasingshortly

SOFTWARE ENGINEERING

(For CS, IT and Related Branches)

Code: BCS601

Size: $20 \times 30/8$ Pages: 450 Approx.

ISBN: 978-93-5014-236-3

Price: ₹ 695/-Third Edition: 2025



By Udit Agarwal

CONTENTS

 Software and Software Engineering • Software Development Life Cycle Models • Software Requirement Specification
 Software Reliability and Quality Assurance • Software Development Methodology • Software Project Management
 Software Design • Software Measurement and Metrics • Coding and Testing • Software Maintenance • Software Re-Engineering and Reserve Engineering • Computer Aided Software Engineering • Important Questions with Answers • Glossary
 • Previous Year Question Papers • Bibliography • Index.



AUGMENTED & VIRTUAL REALITY

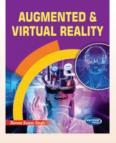
(For CS (DE-3, IT (DE-3) and Related Branches)

Code: BCS062

Size: 20 × 30/8 Pages: 400 Approx.

ISBN: 978-Price: ₹

First Edition: 2025



By Naveen Kumar Singh

CONTENTS

Releasingshortly

BLOCKCHAIN ARCHITECTURE DESIGN

(For CS (DE-3, IT (DE-3) and Related Branches)

Code: BCS063

Size: 20 × 30/8 Pages: 425 Approx ISBN: 978-93-5014-787-0

Price: ₹ 595/-

First Edition: 2024-2025



By Udit Agarwal

CONTENTS

• Introduction to Blockchain • Blockchain Architecture and Design • Crypto Foundation • Consensus Protocols • Blockchain with Cryptocurrency • Ethereum Blockchain • Solidity Programming • Hyperledger Fabric • R3 Corda Blockchain • Overview of Solana Blockchain • Enterprise Application of Blockchain • Use Cases in Blockchain • Index.

FIFTH AND SIXTH SEMESTER

DATA COMPRESSION

(For CS (DE-3), IT (DE-3) and Related Branches)

Code: BCS064

Size: $20 \times 26/8$ Pages: 275 Approx.

ISBN: 978-93-5014-175-5

Price: ₹ 295/-Reprint: 2025



Bv **Amrita Jyoti**

• Introduction • Mathematical Preliminaries for Lossless Compression • Huffman Coding • Arithmetic Coding • Dictionary Techniques • Context Based Compression • Lossless Image Compression • Mathematical Preliminaries for Lossy Coding • Scalar Quantization • Vector Quantization • Speech and Video Compression • Glossary • Model Question Papers • Previous Year Question Papers • Index.

CRYPTOGRAPHY AND NETWORK SECURITY

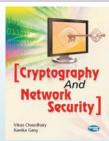
(For CS (Cyber Security) and Related Branch)

Code: BCCS061

Size: $20 \times 30/8$ Pages: 325 Approx.

ISBN: 978-93-5014-139-7

Price: ₹ 495/-Reprint: 2025



Vikas Chaudhary Kanika Garg

DIGITAL

MUNICATIONS

- Introduction to Security
- · Classical Encryption Techniques
- Modern Block Ciphers
- Symmetric Key Cryptography
- Mathematics of Cryptography
- Asymmetric Key Cryptography
- Message Authentication and Hash Functions
- Digital Signature
- Key Management and Distribution
- · Authentication Applications and E-mail Security
- IP Security
- Web Security
- System Security
- Appendix • Examination Papers
- Index.

CONTENTS

Unit-I:

• Introduction • Digital Data Transmission • Digital Modulation Techniques

Unit-II:

- · Probability and Random Variables.
- Unit-III:
- · Performance analysis of Digital Communication System.

- · Spread Spectrum Communications.
- Unit-V:
- Information Theory Error Control Coding Previous Years

Question Papers . Index.

DIGITAL **COMMUNICATIONS**

(For EC and Related Branches)

Code: BEC601

Size: $20 \times 30/8$ Pages: 550 Approx. ISBN: 978-93-80027-24-1

Price: ₹ 625/-Reprint: 2025



CONTROL SYSTEMS-I

(For EC and related Branches)

Code: BEC602

Size: $20 \times 30/8$ Pages: 525 Approx. ISBN: 978-93-5014-133-5

Price: ₹ 595/-Reprint: 2025



BvS. Hasan Saeed

CONTENTS

• Input-Output Relationship • Time Domain Analysis • Error Analysis • Frequency Domain Analysis • Stability Theory • State Space Analysis of Control System • The Laplace Transforms • Miscellaneous Problems • MATLAB Programs • Objective Type Questions • Model Question Papers • References • Index.

THIRD YEAR

ANTENNA AND WAVE PROPAGATION

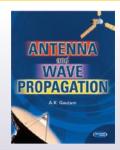
(For EC and related Branches)

Code: BEC603

Size: $20 \times 30/8$ Pages: 525 Approx

ISBN 13: 978-81-88458-04-2 ISBN 10: 81-88458-04-X

Price: ₹ 595/-Reprint: 2025



CONTENTS

• Electromagnetic Field Radiation • Antenna Terminology • Antenna Arrays • Practical Antennas • Propagation • Antenna Measurements • Multiple Choice Questions • Appendices · Previous Years Question Papers · Index.

By A.K. Gautam

SATELLITE COMMUNICATION (For EC (DE-III) and related Branches) Code: BEC061

Size: $20 \times 26/8$ Pages: 375 Approx.

ISBN 13: 978-93-5014-169-4 ISBN 10: 81-89757-80-6

Price: ₹ 395/-Reprint: 2025



BySapna Katiyar

- Introduction Orbital Mechanism and Launching of Satellite
- Satellite Subsystems Satellite Channel and Link Design
- · Propagation Effects and their Impact on Satellite Earth Links
- · Earth Station Technology · Introduction to Various Satellite Systems • Satellite Applications • Global Mobile Satellite Systems
- Appendices Short Answer Questions Glossary
- Model Question Papers Previous Year Examination Papers Index

DATA **COMMUNICATION NETWORKS**

(For EC (DE-III) Branch)

Code: KEC063

Size: $20 \times 30/8$ Pages: 500 Approx.

ISBN 13: 978-93-5014-170-0

ISBN 10: 81-89757-42-3

Price: ₹ 595/-Reprint: 2025



ByDr. Sanjay Sharma

CONTENTS

Unit-I:

• Introduction to Networks and Data Communications • Physical Layer and Data Transmission.

Unit-II:

· Switching • The Data Link Layer.

Unit-III:

• Medium Access Sublayer.

Unit-IV:

Network Layer • Network Connecting Devices.

Unit-V:

• Transport Layer Protocol • Network Security and Cryptography

• Model Question Papers • Index.

DIGITAL **DESIGN**

(For EC (DE-III) Branch)

Code: BEC063

Size: 20 × 30/8 Pages: 550 Approx ISBN: 978-93-5014-460-2

Price: ₹ 625/-Reprint: 2025



By Dr. Sanjay Sharma

CONTENTS

Unit-1

• Number Systems and Conversions • Boolean Algebra and Logic Gates • Gate-Level Minimization.

Unit-2

· Combinational Logic: Analysis and Design.

Unit-3 · Synchronous Sequential Logic: Analysis and Design.

Unit-4

- Asynchronous Sequantial Logic: Analysis and Design Hazards. Unit-5
- · Memory and Programmable Logic Devices · State Machine Design with SM Charts
- Model Question Paper



FIFTH AND SIXTH SEMESTER

MICROWAVE AND RADAR ENGINEERING

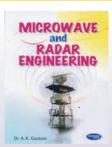
(For EC (DE-III) Branch)

Code: BEC064

Size: $20 \times 26/8$ Pages: 500 Approx

ISBN 13: 978-93-5014-151-9 ISBN 10: 81-88458-18-X

Price: ₹ 525/-Reprint: 2025



By Dr. A.K. Gautam

CONTENTS

- Introduction
- · Basic Transmission Line Theory
- Microwave Waveguide
- Microwave Cavity Resonators and Components
- Microwave Measurements
- Microwave Tubes
- · Microwave Semiconductor Devices
- Microwave Radiation Hazards
- Microwave Communication Systems
- Radar Systems
- Satellite Communication
- Experiments
- Previous Year Question Paper
- Index.

POWER SYSTEM ANALYSIS

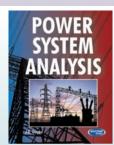
(For EE Branch)

Code: KEE601

Size: $20 \times 30/8$ Pages: 375 Approx.

ISBN: 978-93-5014-105-2

Price: ₹ 495/-Reprint: 2025



By J.B. Gupta

CONTENTS

Unit-I: Representation of Power System Concepts

- Introductory Representation of Power System Components
- Symmetrical Components Symmetrical Fault Analysis

Unit-II: Unsymmetrical Faults Analysis • Unsymmetrical Faults Analysis.

Unit-III: Load Flows • Load Flows.

Unit-IV: Power System Stability • Power System Stability
Unit-V: Travelling Waves • Travelling Waves • Protection
Against Travelling Waves • Examination Papers • Index.

MICROPROCESSORS AND INTERFACING

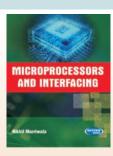
(For EE and related Branches)

Code: BEE602

Size: $20 \times 30/8$ Pages: 875 Approx

ISBN 13: 978-81-89757-27-4 ISBN 10: 81-89757-27-X

Price: ₹ 895/-Reprint: 2025



By Nikhil Marriwala

CONTENTS

Microprocessors and its Overview • 8085 Microprocessor (8-Bit) • 8086 Microprocessor • 8086 Interrupt Structure • Memory Interfacing and Address Decoding Techniques for 8086 Microprocessor • 8086 Instruction Set • Techniques for Assembly Language Programming with DOS and BIOS Functions for 8086 Microprocessor • Input/Output Chips and Their Interfacing with 8086 Microprocessor • The 80286/287 Microprocessors The 80386/387/486 Microprocessors • The Pentium Processor
 • Application of Microprocessors • 8051 Microcontroller

• Appendix • Question Bank • Model Test Papers • Index.

POWER ELECTRONICS

(For EE and related Branches)

Code: BEE603

Size: $20 \times 30/8$ Pages: 625 Approx.

ISBN 13: 978-81-85749-53-2

ISBN 10: 81-85749-53-1

Price: ₹ 850/-Reprint: 2025



By Dr. B.R. Gupta V. Singhal

CONTENTS

• Power Diodes and Transistors • Thyristors • Controlled Rectifiers • Inverters • Choppers • AC Regulators • Cycloconverters • Applications of Thyristors • DC and AC Motor Drives • Power Supplies • Harmonics • Integrated Circuits and Operational Amplifiers • Number Systems • Logic Gates and Boolean Algebra • Digital Electronic Circuits • Microprocessors • Experimental Work • Appendices • Bibliography • Index.

THIRD YEAR

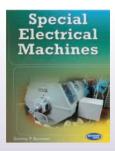
SPECIAL ELECTRICAL **MACHINES**

(For EE (DE-3) Branch)

Code: BEE061

Size: $20 \times 26/8$ Pages: 250 Approx. ISBN: 978-93-5014-262-2

Price: ₹ 295/-Reprint: 2025



By Simmi P. Burman

CONTENTS

• Poly-phase AC Machines • Single Phase Induction Motors • Stepper Motors and Switched Reluctance Motors • Permanent Magnet Generators • Single Phase Commutator Motors • Model Papers • Examination Paper • Index.

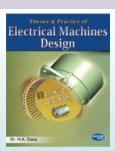
Theory & Practice of **ELECTRICAL** MACHINES DESIGN

(For EE (DE-III) Branch) Code: BEE062

Size: $20 \times 30/8$ Pages: 975 Approx.

ISBN: 978-93-5014-574-6

Price: ₹ 895/-Reprint: 2025



By Dr. N.K. Datta

 Basic Ideas of Machine Design and Materials for Electrical Machines • Transformer Design and Construction • Theory and Practice of Design of Rotating Machines • Design of Single Phase Induction Motors (Split Phase) . Computer Aided Design of Rotating Machine • Design of Synchronous Machines • Magnetic Circuit • Heating and Cooling of Electrical Machines • Cooling of Rotating Electrical Machines • Temperature Rises: Time, Curves and Selection of Motor • Armature Windings of Electrical Machines • D.C. Machines • Design of Small Transformer (1-ph) Low Voltage • Design of Starters and Field Regulator • Design of Electromagnets • Design of Current Transformer and Potential Transformer • Special Purpose Machines • Mechanical Parts for Electrical Machines • System Design • Standard Specifications

ADVANCED CONTROL SYSTEMS

(For EE (DE-III) Branch)

Code: BEE063

Size: $20 \times 30/8$ Pages: 400 Approx.

ISBN: 978-81-907386-0-6

Price: ₹ 495/-Reprint: 2025

Advanced **Control Systems**

Dr. K.M. Soni P.M. Tiwari Ayushi Sharma

CONTENTS

Part-A: Digital Control Engineering

• Sampling and Signal Conversion • The z-Transform • Transfer Function, Block Diagrams and Signal Flow Graphs • Transform Design of Digital Controls • State Space Analysis of Sampled Data Systems • Design of Digital Controls Using State Space Analysis • Mechanization of Control Algorithms.

Part-B: Optimal Control

• Optimal Control • Optimal Feedback Control • Stochastic Optimal Linear Estimation and Control • Microprocessor Control and Single Board Controller • Digital Signal Processor (DSP) Control.

Part-C: Non-Linear System Analysis

• Second Order System and Phase Plane • Describing Function Analysis • Appendices • Previous Year Question Papers • Index.

ELECTRIC AND HYBRID VEHICLE

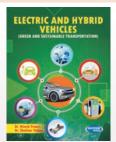
(Green and Sustainable Transportation)

(For EE Branch)

Code: BEE064

Size: $20 \times 30/8$ Pages: 300 Approx. ISBN: 978-81-963589-0-7

Price: ₹ 595/-Reprint: 2025



Dr. Nitesh Tiwari Dr. Shekhar Yaday

CONTENTS

• Introduction to Electric Vehicles • Electric Motor Drives for EV Application • EV Battries and Battery Management System · Charging System Design Technology for EV Applications Planning for EV Charging Facility • Energy Storage • AC Motor Drive • Regenerative Braking System • Energy Management Strategy • Hybrid Electric Vehicle • Mechanical Design of a Vehicle • Previous Examination Papers • Index .

FIFTH AND SIXTH SEMESTER

REFRIGERATION

AIR-CONDITIONING

(For ME Branch)

Code: BME601

Size: $20 \times 30/8$ Pages: 650 Approx. ISBN: 978-93-5014-634-7

Price: ₹ 695/-Reprint: 2025



ByDr. D.S. Kumar

CONTENTS

- Basic Concepts and Definitions Refrigerators and Heat Pumps
- Air Refrigeration Cycles Aircraft Refrigeration Systems Vapour Compression Refrigeration Compound Vapour
- Compression Refrigeration Systems Refrigerants, Driers and Lubricants • Vapour Absorption Refrigeration • Low Temperature Refrigeration (Cryogenics) • Non-Conventional Refrigeration Systems • Refrigeration Equipment • Psychrometry: Moist Air Properties • Air-Conditioning and Human Comfort • Air-Conditioning Systems and Processes • Cooling Load Estimation
- · Ventilation, Filtration and Air Distribution · Appendix
- Pressure-Enthalpy Diagrams Index.

A Textbook of

REFRIGERATION AND AIR-CONDITIONING

(For ME Branch)

Code: BME601

Size: $20 \times 30/8$

Pages: 925 Approx.

ISBN 13: 978-93-5014-255-4

ISBN 10: 81-88458-40-6

Price: ₹ 895/-Reprint: 2022



Bv Er. R.K. Rajput

Introduction to S.I. Units and Conversion Factors

Part-I: Refrigeration: • Fundamentals of Refrigeration • Air-refrigeration Cycles and Systems • Simple Vapour Compression Refrigeration System • Vapour Compression Refrigeration Systems with Multiple Evaporators and Compressors • Vapour Absorption Refrigeration System • Refrigeration System • Low Temperature Refrigeration (Cryogenics) • Non-Conventional Refrigeration Systems • Refrigerants, Driers and Lubricants • Refrigeration, Components and Controls • Defrosting Methods

Part-II: Air-conditioning: • Psychrometrics • Human Comfort • Air-Conditioning Systems • Air-Conditioning Equipment, Components and Controls • Duct and Air-Distribution Systems • Fans • Load Estimation Measuring Instruments–Air-Conditioning

*Measuring instruments-An-Condutoiming Part-III: Miscellaney: *Thermal Insulation *Applications of Refrigeration and Air- Conditioning * Maintenance and Repair of Commercial and Domestic Equipment * Refrigeration and Air-Conditioning Tools * Universities* Questions (Latest) with Solution * GATE and UPSC Examinations* Questions (Latest Selected) with Answers/Solutions * Appendices * Refrigeration and Air-conditioning Tables and Charts (Calcula) Latest Selected (Chart) Latest Selected) (Including Psychrometric Chart) • Index.

THEORY OF **MACHINES**

(For ME and related Branches)

Code: BME603

Size: $20 \times 26/8$ Pages: 250 Approx ISBN: 978-93-5014-341-4

Price: ₹ 295/-Reprint: 2025

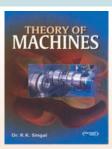
A Textbook of TRIBOLOGY

(For ME (DE-3) and Related Branches)

Size: $20 \times 30/8$ Pages: 400 Approx

ISBN: 978-93-5014-522-7

Price: ₹ 495/-Reprint: 2025



Dr. R.K. Singal

Unit I

- Simple Mechanisms Velocity Analysis in Mechanisms.
- · Acceleration in Mechanisms · Mechanisms with Lower Pairs.

Unit III

- · Bearing Friction · Belt and Pulley Drive · Brakes and
- Dynamometers.
- Unit IV · Cams.
- Unit V
- Gears Gear Trains
- · Annexure-I: University Paper · Annexure-II: References

Code: BME063



ByEr. Arun Kumar

- History and Industrial Significances of Tribology
- · Surface Engineering and Wear
- Friction
- Wear
- Lubrication
- · Bearings
- Composite Materials
- Nanotribology Filter and Filtration
- Appendices
- Important Questions
- Model Question Papers
- Bibliography
- Index.

THIRD YEAR

REINFORCED CEMENT CONCRETE DESIGN

(For CE Branch)

Code: BCE061

Size: $20 \times 30/8$ Pages: 750 Approx. ISBN: 978-93-5014-515-9

Price: ₹ 595/-Reprint: 2024

REINFORCED CEMENT CONCRETE DESIGN

By Neelam Sharma

CONTENTS

- Introduction Working Stress Method of Design Introduction to Limit State Method of Design • Limit State of Collapse: Flexure • Limit State of Collapse: Shear and Bond • Design of Singly Reinforced Beams • Design of Doubly Reinforced Beams • T-Beams • Design for Torsion • Limit State of Serviceability • One Way Slab • Two Way Slab • Columns • Foundations • Staircase
- Retaining Walls
 Flat Slab
 Yield Line Theory of Slabs
 Continuous Beams
 Beams Curved in Plan
 Slab Culvert
- Design of Water Tank Introduction to Prestressed Concrete

TRANSPORTATION ENGINEERING

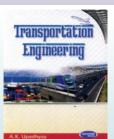
(For CE Branch)

Code: BCE602

Size: $20 \times 26/8$ Pages: 375 Approx

ISBN 13: 978-81-85749-63-1 ISBN 10: 81-85749-63-9

Price: ₹ 365/-Reprint: 2024



BvA.K. Upadhyay

CONTENTS

Part-A: Highways • Introduction • Road Geometrics • Highway Surveys and Plans • Road Materials • Road Pavements • Hill Roads • Road Drainage • Road Maintenance • Traffic Engineering • Construction Equipment • Roadside Arboriculture.

Part-B: Railways • Introduction • Alignment and Survey • Permanent Way • Rails • Sleepers • Ballast • Fixtures and Fastenings • Tracks Geometrics • Points and Crossings • Stations and Yards • Signalling.

Part-C: Bridges • Bridges

Part-D: Tunnels • Tunnels • Experiments • Index.

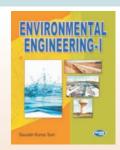
ENVIRONMENTAL ENGINEERING-I

(For CE Branch)

Code: BCE603

Size: $20 \times 30/8$ Pages: 300 Approx. ISBN: 978-93-5014-334-6

Price: ₹ 425/-Reprint: 2025



BvSaurabh K. Soni

- Water Demand and Domestic Use Transmission of Water
- · Storage and Distribution of Water · Waste Water Collection
- Multiple Choice Questions Appendices Previous Year Question Papers (Unsolved) • Index.

An Introduction to REMOTE SENSING AND ITS APPLICATIONS (Geoinformatics)

Size: $20 \times 30/8$ Pages: 450 Approx. ISBN: 978-93-5014-535-7

Price: ₹ 595/-Reprint: 2025



RvShivangi Somvanshi Maya Kumari

CONTENTS

• Photogrammetry • Introduction to Remote Sensing • Image Interpretation • Digital Image Processing • Microwave Remote Sensing • Hyperspectral Remote Sensing • Geographic Information System (GIS) • Geosphatial Analysis & Modeling • Global Positioning System (GPS) • Applications of Remote Sensing • Glossary • Lab Experiments • Model Papers • Index.

FIFTH AND SIXTH SEMESTER

ADVANCED CONSTRUCTION **TECHNIQUES** AND EQUIPMENTS

(For CE (DE-I) Branch)

Code: KCE052

Size: $20 \times 30/8$ Pages: 300 Approx. ISBN: 978-93-5014-751-1

Price: ₹ 495/-Reprint: 2024



By

CONTENTS

- Advanced Construction Materials I
- · Advanced Construction Materials II
- · Advanced Construction Materials III
- · Prefabrication
- Earthquake Resistant Construction
- · Retrofitting of Structures
- Building Services
- Construction & Earthmoving Equipment
- Soil Reinforcing Techniques
- Index.

Dr. Manoranjan Samal

Principles of **CONSTRUCTION** MANAGEMENT

(For CE Branch)

Size: $20 \times 30/8$ Pages: 200 Approx. ISBN: 978-

Price: ₹ 395/-First Edition: 2025

Dr. Manoranjan Samal

NSTRUCTION ANAGEMENT

Bv

CONTENTS

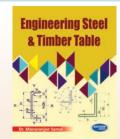
Releasingshortly

ENGINEERING STEEL & TIMBER **TABLE**

(For CE Branch)

Size: $20 \times 30/8$ Pages: 125 Approx ISBN: 978-81-982470-7-0

Price: ₹ 195/-First Edition: 2025



BvDr. Manoranjan Samal

CONTENTS

Releasingshortly

ENVIRONMENTAL ENGINEERING

LABORATORY MANUAL

Size: $23 \times 36/8$ Pages: 325 Approx ISBN: 978-93-5014-772-6

Price: ₹ 495/-Reprint: 2025



ByDr. S.K. Panigrahi L. Mohanty

CONTENTS

Part-1 Water Quality Characteristics

- Physical Water Quality Parameters
- Inogranic/Chemical Water Quality
- Toxic Metals
- · Organic, Nutrient and Demand
- Bacteriological Water Quality Parameters
- Radioactive Elements

Part-2 Wastewater Treatment

Part-3 Solid Water Characterization

• Solid Waste

Part-4Air Quality Monitoring

Air Quality Test

Part-5 Noise Level Determination

• Noise Pollution

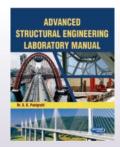
THIRD YEAR

ADVANCED **STRUCTURAL ENGINEERING LABORATORY MANUAL**

Size: $23 \times 36/8$ Pages: 200 Approx

ISBN: 978-93-5014-745-0

Price: ₹ 295/-Reprint: 2025



By Dr. S.K. Panigrahi

CONTENTS

A: Characterization of Cement • Standard consistency and Setting times test of cement • Fineness test of Cement by Sieve analysis • Soundness test of cement • Specific gravity test of cement . Compressive strength test of cement.

B: Characterization of Aggregate • Particle size distribution of fine and coarse aggregates • Specific gravity and Water absorption test of fine aggregates • Specific gravity and Water absorption test of coarse aggregates • Unit weight and Void test of fine and coarse aggregates • Aggregate Crushing value test of coarse aggregate • Aggregate Impact value test of coarse aggregate • Aggregate Abrasion value of coarse aggregate • Flakiness index and Elongation index test of coarse aggregate • Bulking test of fine aggregates • Shape and Dimension test for

brick
C: Characterization of Brick • Water absorption test of brick • Compressive strength test of

D: Characterization of Concrete • Slump test and Compaction factor test of wet concrete • Stress-strain curve, modulus of elasticity, and Poisson's ratio test of concrete • Flexural strength/Modulus of Rupture test of concrete • Split tensile strength test of concrete

E: Characterization of Self-Compacting Concrete (SCC) • Slump Flow Test of SSC • T₅₀ CM Slump Flow Test of SSC • V Funnel Test of SSC • V Funnel at T5 Minutes of SSC • L Box Test of SSC • J Ring Test of SSC.

Part 2 Study of Durability Properties for Concrete

• Water Absorption test of concrete • Sorptivity test of concrete • Rapid Chloride Permeability test of concrete (RCPT) • Acid Resistance test of concrete • Sulphate Resistance test of concrete • Chloride Resistance test of

Part 3 Study of Microstructural Properties

• Scanning Electron Microscope (SEM) test • Energy Dispersive X-Ray Spectroscopy (EDX) test • X-Ray Diffraction (XRD) test • Fourier Transform Infrared Spectroscopy (FTIR) test • Thermogravimetric Analysis (TGA) test

A: Characterization of Steel • To determine the unit mass (kg/m) and the effective cross-sectional area of the given HYSD bar • To check the transverse cracks in the bent position after bend and rebend test of HYSD bars • Determination of ultimate tensile strength by UTM and percentage elongation of given HYSD bar • To determine the ultimate tensile strength, yield strength, and percentage elongation of a mild steel coupon

B: Non Destructive Testing • To determine the quality of concrete using

non-destructive testing of concrete by Ultrasonic Pulse Velocity method • To assess the available compressive strength in concrete using non-destructive testing by the Rebound Hammer method

C: Mix Design of Concrete • To perform the M25 concrete mix design following IS 10262:2019 • To test an RCC beam under two-point load under

D: Some Regular Structural Analysis Problems • (a) To compare the experimental and theoretical values of the horizontal thrust of a three-hinged parabolic arch. • To plot the Influence Line Diagram of the horizontal thrust of the three-hinged arch • (a) To draw the profile of the two hinged arch (b) To compare the horizontal thrust for a given system of loading at the roller end both experimentally and analytically in a two-hinged arch. • To verify Maxwell theorem of reciprocal deflection by needle beam apparatus and to measure flexural rigidity

${\bf Part\,5\,Corrosion\,Estimation\,of\,steel\,in\,Concrete}$

• To determine the mass loss of steel reinforcement embedded in concrete due to corrosion by Impressed Current Technique (ICD) through accelerated corrosion process. • To estimate the electrical half-cell potential of uncoated reinforcing steel in concrete, so that the corrosion activity of the reinforcing steel can be determined.

FLUID MECHNICS AND HYDRAULIC MACHINES LABORATORY MANUAL

Size: $23 \times 36/8$ Pages: 225 Approx.

ISBN: 978-93-5014-756-6 Price: ₹ 425/-

Reprint: 2025

FLUID MECHANICS HYDRAULIC MACHINES LABORATORY MANUAL

Bv Dr. S.K. Panigrahi L. Mohanty

CONTENTS

Orifice • Flow Through Cylindrical Mouthpiece • Measurement of Capillary Rise • PVC Pipe Testing (Bursting Pressure) • PVC Pipe Testing (Impact) • PVC Pipe Testing (Softening Point) • Water Hammer Phenomena OPEN CHANNEL FLOW

· Manning's Constant and Chezy's Constants · Flow Over Notches · Characteristics of Flow over Sharp Crested Weir · Specific Energy and Critical Depth • Application of Specific Energy (Flow Characteristics Over the Hump) • Application of Specific Energy (Flow Characteristics with Width Constriction) • Hydraulic Jump • Surges • Boundary Layer Growth in Open Channel • Velocity Distribution in an Open Channel • Flow Beneath a Sluice Gate • Flow Through a Parshall Flume • Flow over a Broad Crested Weir • Flow through a Cut-throat Flume • Characteristics of Flow over

HYDRAULIC MACHINES HYDRAULIC RAM

• Study of Characteristic Curves of a Hydraulic Ram at Constant Valve Lift and Constant Supply Head • Determination of Rankine Efficiency of Hydraulic Ram and D'Aubussin's Efficiency WATER JET

Determination of Force Exerted by a Jet of Water on a Fixed Vane

• Determination of Overall Efficiency of Francis Turbine with Constant Speed • Determination of Overall Efficiency of Pelton Turbine under Constant Speed with Alternating Load • Study of Performance Characteristics of a Kaplan Turbine at a Constant Speed

• Study of Performance Characteristics of a Centrifugal Pump at a Constant Speed • Study of Performance Characteristics of a Centrifugal Pump at Different Speeds • Study of Performance Characteristics of a Reciprocating Pump at a Constant Speed • Determination of Percentage of Slip and Efficiency of the Double-acting Reciprocating • Pump and Drawing its Characteristic Curve • Study of Performance Characteristics of a Gear Pump at a Constant Speed

References

BASIC FLUID PROPERTIES THERMODYNAMIC FLUID ROPERTIES

• Fluid Density Measurement • Using Measuring Cylinder • Using Density Bottle • Using Eureka Can • Specific Gravity Measurement (Using Hydrometer) • Surface Tension Measurement (Using Stalagmometer) • Measurement of Viscosity • Measurement of Viscosity by Viscometer • Measurement of Viscosity by Terminal Velocity • Measurement of Fluid Pressure • Pressure Measurement by Manometer • Pressure Measurement by Bourdon Pressure Gauge • Centre of Pressure on Submerged Plane Surface KINEMATIC FLUID PROPERTIES

• Measurement of Fluid Velocity • Velocity Measurement Using Pitot Tube • Velocity Measurement Using Current Meter • Velocity Measurement Using Flow Tracker • Velocity Measurement Using Micro Adv • Measurement of Depth Using Echo Sounder

MISCELLANEOUS FLUID PROPERTIES

• Phenomenon of Cavitation with Forced Conduction • Metacentric Height of a Floating Body • Free and Forced Vortex Flow

PIPE FLOW

 $\bullet \ Verification \ of \ Bernoulli's \ Theorem \ \bullet \ Darcy's \ Friction \ Factor \ and \ Major \ Losses \ in \ the \ Pipe$ Determination of Friction Factor and Plotting Moody's Chart for Pipe Flow • To determine the Minor Losses due to Sudden Enlargement, Sudden Contraction and Bend • Study of Flow Patterns using Reynolds's Apparatus \bullet Determination of Coefficient of Discharge for Venturi Meter \bullet Determination of Coefficient of Discharge for Orifice Meter \bullet Circular

FIFTH AND SIXTH SEMESTER

CONSTITUTION OF **INDIA**

(Common to all Branches)

Code: BNC501/BNC601

Size: $20 \times 30/8$ Pages: 225 Approx.

ISBN: 978-93-5014-763-4

Price: ₹ 295/-Reprint: 2025

INDIAN TRADITION, **CULTURE AND** SOCIETY

(Common to all Branches)

Code: BNC502/BNC602

Size: $20 \times 30/8$ Pages: 225 Approx.

ISBN: 978-81-963589-1-4

Price: ₹ 295/-Reprint: 2025

HUMAN COMPUTER INTERFACE

(For Computer Science and Related Branches)

Size: $20 \times 30/8$ Pages: 400 Approx. ISBN: 978-93-5014-792-4

Price: ₹ 495/-First Edition: 2025

WEB TECHNOLOGY

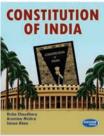
(For CS, IT and Related Branches)

Code: KIT501/KECZ-063/KCS602

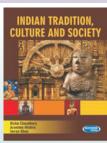
Size: $20 \times 30/8$ Pages: 350 Approx. ISBN: 978-93-5014-

Price: ₹

First Edition: 2025



ByRicha Chaudhary **Arunima Mishra Imran Khan**



By Richa Chaudharv **Arunima Mishra Imran Khan**

CONTENTS

Module-I: Introduction and Basic Information About Indian Constitution • Introduction to Constitution of India • Fundamental Rights & Fundamental Duties • Centre-State Relations & Emergency Provisions Local Administration

Module-II: Union Executive and State Executive • Powers of Indian Parliament • Judiciary • State Legislature

Module-III: Introduction and Basic Information about Legal System · Sources of Law & Structure of Courts in India · Enacted Laws-Acts of Parliament and Common Law, Arbitration and Tribunals & Indian Legal System • Contract Act 1872, Law of Torts and Laws at Work Place

Module-IV: Intellectual Property Laws and Regulation to Information • Introduction to Intellectual Property Rights & Regulation to Information Module-V: Business Organizations and E-Governance

- Business Organizations and E-Governance
- · Model Question Papers
- Previous Year Question Papers
- Bibliography
- Index.

ONTENTS

Module-1: Society, State and Polity in India

- State in Ancient India Political Ideals in Ancient India Society in Ancient India • Representation of Women in Historical Traditions
- Module-2: Indian Literature, Culture, Tradition and Practices • Evolution of Languages and Script in India • Ancient Religious Texts
- · Literature in Pali, Prakrit and Sanskrit
- Module-3: Indian Religion, Philosophy, and Practices
- Pre-Vedic and Vedic Religion
- Religious Movements in India

Module-4 Science, Management and Indian Knowledge System

- History of Scientific Studies in India Technology in Indian History
- Trade in Ancient India

Module-5 Cultural Heritage and Performing Arts

- Indian Architecture Puppetry, Dance, and Music of Ancient India
- Question Bank Modal Papers Previous Year Question Papers
- · Bibliography · Index .

CONTENTS

- Introduction
- Design Process • Screen Design
- Windows
- · Software Tools



Pancham Singh Mrignainy Kansal

Bv



By Ashish Bhatnagar

CONTENTS

Releasing Shortly

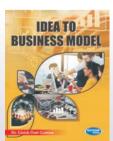
THIRD YEAR

IDEA TO BUSINESS MODEL

Size: 20 × 30/8 Pages: 250 Approx.

ISBN: 978-93-5014-786-3 Price: ₹ 325/-

Price: ₹ 325/-First Edition: 2024



D.,

Dr. Girish Dutt Gautam

CONTENTS

- From Idea to Product
- Introduction to Entrepreneurship
- The Entrepreneur
- Production System
- Communication and Risk
- Index

CONTENTS

RURAL DEVELOPMENT:

(Administration and Planning)

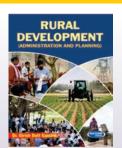
(Common to Branches)

Code: KHU701/KHU801

Size: $20 \times 30/8$ Pages: 300 Approx.

ISBN: 978-93-5014-780-1

Price: ₹ 395/-Reprint: 2025



Dr. Girish Dutt Gautam

CONTENTS

- Rural Development
- Rural Developmetn Programmes
- Panchayati Raj and Rural Administration
- Human Resource Development in Rural Sector
- Rural Industrilization and Entrepreneurship

PROJECT MANAGEMENT & ENTREPRENEURSHIP

(Common to Branches)

Code: KHU702/KHU802

Size: $20 \times 30/8$ Pages: 300 Approx.

ISBN: 978-93-5014-781-8

Price: ₹ 495/-Reprint: 2025



By Dr. Shubhendu Shekher Shukla Dr. Saurabh Bajpai

CONTENTS

- Entrepreneurship
- Entrepreneurial Idea and Innovation
- Project Management
- Project Financing
- Social Entrepreneurship
- Case Studies
- Short Answer Questions
- Previous Years Question Paper
- Index.

MACHINE LEARNING

(Open Elective-II)

Code: KOE073

Size: 20 × 30/8 Pages: 300 Approx. ISBN: 978-93-5014-734-4

Price: ₹ 495/-

Second Edition: 2024-2025



By Dr. Himanshu Sharma

CONTENTS

- Basic Concepts in Machine Learning
- Supervised Learning
- Unsupervised Learning
- Concept Learning • Decision Tree Learning
- Artificial Neural Networks (ANN)
- Genetic Algorithms (GA)
- Reinforcement Learning
- · Bayesian Decision Theory and Bayesin Learning
- Statistics for Hypothesis Evaluation
- Computational Learning Theory (CLT)
- Instance-Based Learning (IBL)
- Experiments
- Appendix
- Examination Papers
- Index.

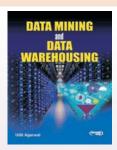
DATA MINING AND DATA WAREHOUSING

(Open Elective-IV)

Code: KOE093

Size: 20 × 30/8 Pages: 400 Approx. ISBN: 978-93-5014-490-9

Price: ₹ 595/-Third Edition: 2025



By Udit Agarwal

CONTENTS

• Introduction to Data Warehousing • Data Warehouse Process and Technology • Client Server Computing • Designing a Data Warehouse • Introduction to Data Mining • Data Preprocessing

- · Data Reduction · Concept Description in Data Mining
- Classification and Predictions Clustering Analysis
- Association Rules Data Visualization and Overall Perspective
- Data Mining Interface and Security Artificial Neural Networks
- Genetic Algorithm Support to Data Mining Multimedia and
- Web Data Mining Glossary Solved Questions with Answers
- Multiple Choice Questions Examination Papers Index.

ARTIFICIAL INTELLIGENCE

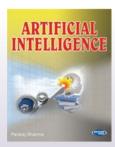
(For CS (DE-IV) and related Branches)

Code: KCS071

Size: $20 \times 30/8$ Pages: 400 Approx.

ISBN: 978-93-80027-05-0

Price: ₹ 525/-Reprint: 2025



ByPankaj Sharma

CONTENTS

• Introduction to Artificial Intelligence • Introduction to Search Algorithms • Knowledge Representation and Reasoning • Machine Learning • Pattern Recognition • Classification Techniques • Introduction to Prolog and LISP • Glossary • Appendices • Model Question Papers • Previous Year Question Papers • Index.

CRYPTOGRAPHY **AND** NETWORK SECURITY

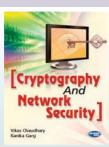
(For CS (DE-IV) and related Branches)

Code: KCS074

Size: $20 \times 30/8$ Pages: 350 Approx.

ISBN: 978-93-5014-139-7

Price: ₹ 495/-Reprint: 2025



By Vikas Chaudhary Kanika Garg

- Introduction to Security Classical Encryption Techniques
- Modern Block Ciphers Symmetric Key Cryptography
 Mathematics of Cryptography Asymmetric Key Cryptography
- Message Authentication and Hash Functions Digital Signature • Key Management and Distribution • Authentication Applications and E-mail Security • IP Security • Web Security • System Security • Appendix • Examination Papers • Index.

SOFTWARE TESTING

(A Practical Approach) (For CS (DE-IV) and related Branches)

Code: KCS076

Size: $20 \times 30/8$ Pages: 575 Approx.

ISBN: 978-81-89757-90-8

Price: ₹ 695/-



Er. Rajiv Chopra

- Introduction to Software Testing Software Verification and Validation • Black Box (or Functional) Testing Techniques
- White Box (or Structural) Testing Techniques Gray Box Testing
- Reducing the Number of Test Cases Levels of Testing Object
- Oriented Testing Automated Testing Test Point Analysis (TPA) • Testing Your Websites: Functional and Non-Functional Testing
- Regression Testing of a Relational Database A Case Study on
- Testing of E-Learning Management Systems Appendices
- · Examination Question Papers · Index.

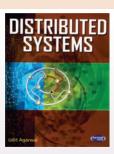
DISTRIBUTED **SYSTEMS**

(For CS (DE-IV) and related Branches)

Code: KCS077

Size: $20 \times 30/8$ Pages: 300 Approx. ISBN: 978-93-5014-349-0

Price: ₹ 395/-Reprint: 2025



By**Udit Agarwal**

- Characterization of Distributed Systems System Models · Theoretical Foundation for Distributed System · Distributed Mutual Exclusion • Distributed Scheduling • Deadlock Detection in Distributed Systems • Agreement Protocols • Interprocess Communication • Distributed Objects and Remote Invocation
- Security in Distributed Systems Distributed File Systems
- Distributed Shared Memory Failure Recovery in Distributed System • Fault Tolerance in Distributed Systems • Transactions and Concurrency Control • Distributed Transactions
- · Replication · Important Questions with Answers
- · Bibliography · Previous Year Question Papers · Index.

MOBILE COMPUTING

(For CS (DE-V) and related Branches)

Code: KCS711

Size: $20 \times 26/8$ Pages: 400 Approx.

ISBN: 978-81-89757-58-8

Price: ₹ 495/-Reprint: 2025



By Vishnu Sharma S.P.S. Chauhan

CONTENTS

Unit-I:

- Introduction Spread Spectrum Overview of Wireless LAN.
- Data Replication for Mobile Computer The CODA Distributed File System Wireless Application Protocol.
- Unit-III:
 Data Managements in Mobile Computing.

Unit-IV:

- · Data and Transaction Management in a Mobile Environment
- Mobile Agent Computing.

Unit-V:

- Routing Protocols for Adhoc Wireless Networks Model Question Paper based on Previous Examination Paper - Examination Papers (Colyady) - Examination
- Examination Papers (Solved) Examination Papers (Unsolved)
- Index.

INTERNET OF THINGS

A Practitioner's Approach

(For CS (DE-V) and related Branches)

Code: KCS712

Size: 20 × 30/8 Pages: 275 Approx. ISBN: 978-93-5014-735-1

Price: ₹ 350/-Reprint: 2024



By **Dr. Rajiv Chopra**

CONTENTS

- Introduction to IoT
- IoT and its Components
- Iot Application Development and Design Challanges
- IIoT Industrial to IoT
- Fog Computing
- Appendix
- Index.

CLOUD COMPUTING

(Scope, Challanges and Solutions) (For CS (DE-V) and Open Elective-III)

Code: KCS713/KOE081

Size: 20 × 30/8 Pages: 475 Approx.

ISBN: 978-93-5014-658-3 Price: ₹ 495/-

Reprint: 2024



By Ashish Bhatnagar Shailza Sharma

CONTENTS

• Introduction • Cloud Types and Services • The Role of Networks in Cloud Computing • Virtualization Technology • Enterprise Knowledge Clouds • Cloud Security Mechanism • Migrating IT to the Cloud • Transformation on Clouds • Cloud Architectural Blueprints • A Solution for Enterprise Cloud Problems • Understanding Microsoft Azure • Azure Web Apps and Services • Azure Database • Amazon Webservices—An Overview • AWS—The Practical Aspects • Index.

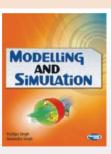
MODELLING AND SIMULATION

(Open Elective-IV)

Code: KOE096

Size: 20 × 30/8 Pages: 375 Approx ISBN: 978-93-80027-22-7

Price: ₹ 595/-Reprint: 2025



By Pushpa Singh Narendra Singh

CONTENTS

• Introduction to System and Models • System Study • System Simulation • Input Data Model • Process and Validation of Modeling and Simulation • Basic of Probability • Continuous and Discrete System Simulation • System Dynamics • Random Number Generation • Simulation of Queuing System • Arrival Patterns and Discrete System Simulation • Simulation Language • GPSS • Estimation and Output Analysis of Simulation • Simulation of PERT Network • Real World Application of Simulation • Appendices • Model Test Papers • Examination Papers • Index.

MOBILE & WIRELESS **COMMUNICATIONS**

(For EC (DE-V) Branch) Code: KEC076

Size: $20 \times 30/8$ Pages: 475 Approx.

ISBN: 978-93-5014-221-9

Price: ₹ 595/-Reprint: 2025



Dr. Sanjay Sharma

CONTENTS

Unit-I

• Introduction: Evolution of Mobile Communication Fundamentals • Mobile Radio Propagation.

· Equalization and Diversity Techniques · Speech Coding and Multiple Access Techniques.

Unit-III

- Cellular Concepts
- Unit-IV
- Wireless Networks Wireless Systems and Standards.

Unit-V • Some Emerging Wireless Network Technologies • An Overview of CDMA2000, WCDMA and EDGE • Wireless Architectures • Appendices • Model Question Paper • Index.

INFORMATION THEORY AND CODING

(For EC (DE-V) Branch)

Code: KEC075

Size: $20 \times 30/8$ Pages: 400 Approx.

ISBN: 978-93-5014-531-9 Price: ₹ 495/-Reprint: 2025

By Varun Goyal **Gaurav Gupta**

- Probability and Random Variable Random Processes
- Information Theory and Source Coding Linear Block Codes
- Convolutional Codes and ARQ Appendix References
- Previous Year Question Papers Index.

OPTICAL NETWORKS

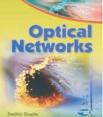
(For EC (DE-IV) Branch)

Code: KEC073

Size: $20 \times 26/8$ Pages: 375 Approx ISBN: 978-93-80027-52-4

Price: ₹ 395/-Reprint: 2025

INFORMATION THEORY and CODING



BySachin Gupta

CONTENTS

Unit 0: Optical Networks.

Introduction

Unit I:

· Introduction to Optical Networks Unit II:

Optical Components

Unit III:

Sonet/SDH Networks • ATM • WDM Network Elements

Unit IV:

 WDM Network Design Issues & Introduction to Access Networks

Optical Switching and Deployment Considerations

• Appendices • Glossary • Previous Years Question Papers • Index.

BIO-MEDICAL SIGNAL **PROCESSING**

(Open Elective-III)

Code: KOE082

Size: $20 \times 26/8$ Pages: 250 Approx. ISBN: 978-93-80027-26-5

Price: ₹ 295/-Reprint: 2025

BIO-MEDICAL SIGNAL PROCESSING



By Rakesh Kumar

- Introduction to Biomedical Signal Processing Sources of Bioelectric Potentials • Basics of ECG, EEG, EMG, and ERG • Transducers and Electrodes and Biomedical Application • Role
- of Computers in Biomedical Instrumentation Data Reduction Techniques • QRS Detection • Evoked Potential Estimation
- · Neurological Signal Processing · Monitors and Recorders · Appendix • Index.

POWER QUALITY

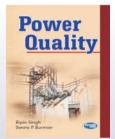
(For EE (DE-IV) Branch)

Code: KEE074

Size: $20 \times 26/8$ Pages: 325 Approx.

ISBN: 978-93-5014-444-2

Price: ₹ 365/-Reprint: 2024



By Bipin Singh Simmi P. Burman

CONTENTS

• Introduction to Power Quality • Voltage Sag • Electrical Transients • Harmonics • Measurement and Solution of Power Quality Problems • Distributed Generation and Benchmarking of Power Quality • Harmonic Distortion Evaluations • References

• Examination Papers • Index.

Elements of

ELECTRIC DRIVES

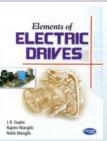
(For EE (DE-V) Branch)

Code: KEE075

Size: $20 \times 30/8$ Pages: 325 Approx.

ISBN: 978-93-5014-200-4

Price: ₹ 395/-Reprint: 2025



By J.B. Gupta Rajeev Manglik Rohit Manglik

CONTENTS

- Electric Drives Control Devices for Industrial Motors
- Thyristor Control of Electric Motors Motors for Particular Services Examination Papers Index.

A Textbook of POWER SYSTEM OPERATION AND CONTROL

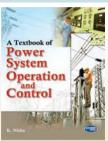
(For EE (DE-V) Branch)

Code: KEE077

Size: 20 × 30/8 Pages: 350 Approx.

ISBN: 978-93-5014-538-8

Price: ₹ 495/-Reprint: 2025



By K. Nisha

CONTENTS

- Introduction to Power System Load Curves Load Flow Algorithms Optimal Load Flow Power Generation Stability
- Load Frequency Control Automatic Voltage Controller (AVC)
- Control of Voltage and Reactive Power Flexible AC Transmission Systems (FACTS) • High Voltage Direct Current
- Supervisory Control and Data Acquisition (SCADA) Appendix
 Bibliography Model Question Papers Examination Paper
- Index.

Utilization of

ELECTRICAL ENERGY AND TRACTION

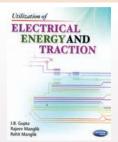
(For EE (DE-V) Branch)

Code: KEE079

Size: $20 \times 30/8$ Pages: 400 Approx.

ISBN: 978-93-5014-222-6

Price: ₹ 525/-Reprint: 2025



*By*J.B. Gupta
Rajeev Manglik
Rohit Manglik

CONTENTS

Unit-I: Electric Heating

· Electric Heating.

Unit-II: Electric Welding and Electrolytic Processes

 $\bullet \, Electric \, Welding \, \bullet \, Electrolytic \, Processes. \\$

Unit-III: Illumination and Refrigeration and Air Conditioning

• Illumination • Refrigeration and Air-Conditioning.

Unit-IV: Electric Traction-I

- Traction Systems Train Movement and Energy Consumption.
 Unit-V: Electric Traction-II
- Electric Traction Motors Control of Traction Motors Braking: Mechanical Considerations and Control Equipment • Power Supply for Electric Traction • Systems of Electric Traction

• Examination Papers • Index.

HIGH VOLTAGE **ENGINEERING**

(For EE (DE-IV) Branch)

Code: KEE073

Size: $20 \times 26/8$ Pages: 250 Approx.

ISBN: 978-93-5014-393-3 Price: ₹ 295/-

Reprint: 2025

EHV-AC, HVDC TRANSMISSION AND DISTRIBUTION **ENGINEERING**

> (For EE (DE-IV) Branch) Code: KEE072

Size: $20 \times 26/8$ Pages: 500 Approx.

ISBN: 978-93-5014-413-8 Price: ₹ 495/-

Reprint: 2025

Fundamentals of **SMART GRID** TECHNOLOGY

(Open Elective-III) Code: KOE084

Size: $20 \times 30/8$ Pages: 275 Approx.

ISBN: 978-93-5014-485-5

Price: ₹ 295/-Reprint: 2024

OPERATIONS RESEARCH

(Open Elective-II)

Code: KOE075

Size: $20 \times 30/8$ Pages: 700 Approx. ISBN: 978-93-83992-39-3

Price: ₹ 795/-Reprint: 2024

(Agency Book)



ByNikita Gupta Simmi P. Burman

EHV-AC HVDC Transmission and Distribution

BySanjay K. Sharma

CONTENTS

- Introduction Extimation of Electric Stress and Control Breakdown in Gases and Dielectrics • Generation of High Voltages and Currents • Measurement of High Direct Current Voltages and Current • Lighting Phenomenon and Travelling Waves • Non-Destructive Testing and High Voltage Testing
 • Corona Discharge • References • Model Test Papers
- Examination Paper Index.

Part A: EHV-AC Transmission Engineering • Introduction to Extrahigh Voltage Transmission Systems • Overhead Line Transmission Voltages • EHV-AC Line Electrical Design Parameters • SAG and Tension of EHV-AC Line Conductor • EHV-AC Line Overhead Conductor Overhead Line Insulators and Line Accesseries • Vibrations and Dampers • EHV Lines Transmission Structures • Power Cables • Distribution System • Power System Over Voltages and Protection • Corona Discharge • Extra-High Voltage Testing
Part B: HVDC Transmission Engineering • High Voltage Direct

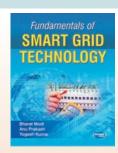
Current Transmission • HVDC Converters and Converter Characteristics Multi-Terminal DC System • Converter Faults and Protection

Part C: Flexible AC Transmission Systems (FACTS) • Introduction to Flexible AC Transmission Systems (FACTS) • Reactive Power Compensation of AC Transmission Lines • Facts Controllers

Part D: Power System Operation • Load Frequency Control • Voltage

• Objective Type Questions with Answers • Question Paper • Index.

• Introduction to Smart Grid • Technologies of Transmission and Distribution Systems • Smart Meters and Advanced Metering Infrastructure • Power Quality Management in Smart Grid • High Performance Computing for Smart Grid Applications • Index.



By Bharat Modi, Anu Prakash & Yogesh Kumar



ByProf. Rina Rani Rath

- · Prerequisite of Operation Research · What is Operation Research • Linear Programming • Graphical Method • Simplex Method • Artificial Variables Technique • Duality to Linear Programming Problem • Game Theory • Sequencing Problem
- Simulation Decision Theory Transportation Problem Assignment Problem Network Scheduling by PERT/CPM
- · Resource Analysis in Network Scheduling · Queuing Theory
- Non-Linear Programming Problems Quadratic Programming
- Non-Linear Programming Algorithm Index.

ELECTRIC AND HYBRID VEHICLE

(Green and Sustainable Transportation)
(For Open Elective-IV)

Code: KOE090

Size: $20 \times 30/8$ Pages: 300 Approx.

ISBN: 978-81-963589-0-7

Price: ₹ 595/-Reprint: 2025



By Dr. Nitesh Tiwari Dr. Shekhar Yadav

CONTENTS

• Introduction to Electric Vehicles • Electric Motor Drives for EV Application • EV Battries and Battery Management System • Charging System Design Technology for EV Applications • Planning for EV Charging Facility • Energy Storage • AC Motor Drive • Regenerative Braking System • Energy Management Strategy • Hybrid Electric Vehicle • Mechanical Design of a Vehicle • Previous Examination Papers • Index .

NON-CONVENTIONAL ENERGY RESOURCES

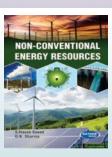
(For Open Elective-II)

Code: KOE074

Size: $20 \times 26/8$ Pages: 350 Approx.

ISBN: 978-93-5014-228-8

Price: ₹ 395/-Reprint: 2024



S. Hasan Saeed D.K. Sharma

CONTENTS

• Introduction to Non-Conventional Energy Resources
• Geothermal Energy • Solar Cells • Solar Thermal Energy • Solar
Photovoltaics • Magneto-Hydro-Dynamics (MHD) Power
Generation • Fuel Cells • Thermoelectrical and Thermionic
Conversions • Wind Energy • Bio-Energy—Biomass and Biogas
• Ocean Thermal Energy Conversion (OTEC) • Ocean Wave
Energy and Tidal Energy • Energy Storage • Energy Management
System • Hydrogen Energy • Appendices • Model Question
Papers • Index.

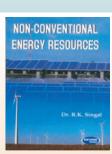
NON-CONVENTIONAL ENERGY RESOURCES

(For Open Elective-II)

Code: KOE074

Size: 20 × 30/8 Pages: 350 Approx ISBN: 978-93-5014-312-4

Price: ₹ 495/-Reprint: 2025



By Dr. R.K. Singal

CONTENTS

Part-1: Current Energy Systems • Energy Utilization • Energy Resources • Energy Conversion Technologies

Part-II: Renewable Energy Systems • Wind Energy • Small Hydro Power Plants • Biomass and Bioenergy • Geothermal Energy • Solar Thermal Energy • Ocean Thermal Energy • Wave and Tidal Wave Energy.

Part-III: Direct Energy Conversion Systems • Fuel Cells • Solar Cells • MHD Power Generation • Thermoelectric Power Generation • Thermionic Power Generation.

Part-IV: Future Energy Sources • Nuclear Fusion Energy • Hydrogen Energy • Exploring New Energy Sources Part-V: Allied Energy Systems • Energy Resource Conservation • Energy

Part-VI: Projects and Papers

• Appendix • Subject Index.

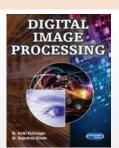
DIGITAL IMAGE PROCESSING

(For CS (DE-3), IT (DE-3) and Related Branches)

Code: KEC071

Size: 20 × 30/8 Pages: 350 Approx ISBN: 978-93-5014-645-3

Price: ₹ 495/-Reprint: 2024



By Dr. Ketki Kshirsagar Dr. Rajeshree Shinde

- Continuous, Digital and Discrete Image Processing
 Introduction: Digital Image Processing
 Two-Dimensional Transforms
 Image Enhancement and Restoration
 Colour Image Processing
 Image Compression
- Image Registration Image Segmentation and Morphology
 Representation and Description Object Recognition and Applications • Video Formation, Perception and Representation
- Two-Dimensional Motion Estimation Speech Processing
- Model Question Papers Index.

QUALITY MANAGEMENT

(Open Elective-III)

Code: KOE085

Size: 20 × 26/8 Pages: 375 Approx ISBN: 978-93-5014-163-2

Price: ₹ 375/-Reprint: 2025



By O.N. Pandey Bhupesh Aneja

CONTENTS

• Quality Concept • Total Quality Management (TQM) • Quality by Design • Control on Purchased Product • Manufacturing Quality • Quality Management • Control Charts • Defects Diagnosis and Prevention • Quality Management System • Taguchi Quality Method and JIT • ISO-14000 Quality Management System • Quality Audit • Reliability • Production Planning and Control • Maintenance Functions • General Maintenance • Predictive Maintenance (PDM) • Spare Parts Management • Pareto Principle • SWOT Analysis • Value Engineering • Appendices • References • Index.

AUTOMATION AND ROBOTICS

(Open Elective-IV)

Code: KOE091

Size: 20 × 30/8 Pages: 375 Approx. ISBN: 978-93-5014-246-2

Price: ₹ 595/-Reprint: 2025

AUTOMATION AND ROBOTICS

By Khushdeep Goyal Deepak Bhandari

CONTENTS

• Automation • Robotics • Robot Elements • Robot Coordinate System and Manipulator Kinematics • Robot Control • Robot Programming • Electrical and Electronic Controls • Computer Integrated Manufacturing Systems • Industrial Applications • Index.

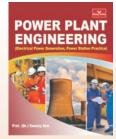
POWER PLANT ENGINEERING

(Electrical Power Generation, Power Station Practice) (For KME (DE-V) Branch) Code: KME076

Size: 20 × 30/8 Pages: 375 Approx. ISBN: 978-93-83992-44-7

Price: ₹ 495/-Reprint: 2024

(Agency Book)



By Prof. (Dr.) Tanmoy Deb

CONTENTS

Basics of Power Generation • Thermal Power Plant • Hydro Electric Power Plant • Nuclear Power Plant • Gas Turbine Power Plant • Diesel Power Plant • Power Station Control • Interconnected Power System • Economic Operation of Power Systems • Co-ordinated Operation of Power Plants • Non-Conventional Energy Sources • Substation • Energy Storage Technologies • Annexures • Bibliography • Model Test Papers

WATER RESOURCES ENGINEERING

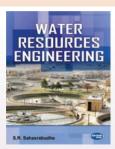
(For CE (DE-V) Branch)

Code: KCE078

Size: 20 × 30/8

Pages: 425 Approx. ISBN: 978-93-5014-186-1

Price: ₹ 595/-Reprint: 2025



By S.R. Sahasrabudhe

CONTENTS

• Elements of Hydrology • Precipitation and its Measurement • Interception, Infiltration and Evaporation • Surface Runoff • Peak Flow and its Estimation • Irrigation Development in India • Water Requirement of Crops • Canal Irrigation • Design of Irrigation Canals (On Alluvial and Non-Alluvial Soils) • Lining of Irrigation Canals (Design of Lined Canals) • Waterlogging and its Remedies (Including Drainage and Conjunctive Use of Surface and Groundwater) • Regulation and Control of Canal System • Irrigation Outlets • River Training • Measurement of River Discharge • Fundamentals of Groundwater • Open Well Irrigation • Tube Well Irrigation • Design of Diversion Headworks and Other Regulatory Structures • Hydropower Stations • Index.

SUSTAINABLE ENGINEERING

(For CE (DE-IV) Branch)

Code: KCE071

Size: $20 \times 30/8$ Pages: 300 Approx.

ISBN: 978-93-5014-714-6

Price: ₹ 395/-Reprint: 2025



Dr. Srinivas Vasam Dr. K. Jagannadha Rao

CONTENTS

- · Introduction to Sustainability
- · Sustainable Renewable Energy Sources
- Sustainable Environment
- Guidelines for Sustainable Design
- · Sustainable Industrialisation and Urbanization
- Environmental Management
 Environmental ManagementSystem and Standards
- Construction Industry Secondary Product Management
- · Case Studies of Sustainability
- Annexures
- References
- Index.

Design of STEEL **STRUCTURES**

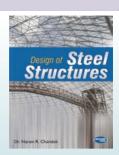
(For CE (DE-V) Branch)

Code: KCE075

Size: $20 \times 30/8$ Pages: 475 Approx.

ISBN: 978-93-5014-571-5 Price: ₹ 495/-

Reprint: 2024



Dr. N.R. Chandak

CONTENTS

- Introduction Simple Connections-Riveted, Bolted and Pinned Connections • Welding and Welded Connections
- Tension Members Design of Compression Members
- Design of Beams Design of Plate Girders Design of Gantry Girder • Design of Roof Trusses • Plastic Analysis
- Cold-Formed Steel Sections Appendix Index.

SUSTAINABLE SOLID WASTE MANAGEMENT

Size: $20 \times 30/8$ Pages: 250 Approx ISBN: 978-81-963589-2-1

Price: ₹ 325/-Reprint: 2024



Dr. Harshita Jain Dr. Renu Dhupper

- Introduction to Solid Waste Management Waste Generation and Characterisation • Waste Collection, Storage and Transportation • Waste Minimisation and Reduction • Waste Treatment and Disposal • Emerging Technology and Approaches
- Policy and Regulatory Framework Case Studies and Examples • Glossary • Model Question Papers • References • Index .

Laboratory Manual for CIVIL **ENGINEERING STUDENTS**

Size: $20 \times 30/8$ Pages: 275 Approx. ISBN: 978-93-5014-609-5

Price: ₹ 395/-Reprint: 2025



ByM.K. Pant

- Structural Analysis
- Surveying
- Fluid Mechanics
- · Concrete Technology
- Transportation/Highway Engineering
- Soil Mechanics
- Environmental/Public Health Engineering
- · Engineering Geology
- AutoCAD

BLOCKCHAIN ARCHITECTURE DESIGN

(Department Elective-V)

Code: KCS714

Size: $20 \times 30/8$ Pages: 425 Approx ISBN: 978-93-5014-787-0

Price: ₹ 595/-

First Edition: 2024-2025



Udit Agarwal

CONTENTS

• Introduction to Blockchain • Blockchain Architecture and Design • Crypto Foundation • Consensus Protocols • Blockchain with Cryptocurrency • Ethereum Blockchain • Solidity Programming • Hyperledger Fabric • R3 Corda Blockchain · Overview of Solana Blockchain · Enterprise Application of Blockchain • Use Cases in Blockchain • Index.

FUNDAMENTALS OF DRONE **TECHNOLOGY**

(For Open Elective-III)

Code: KOE080

Size: 20 × 30/8 Pages: 425 Approx ISBN: 978-

Price: ₹

First Edition: 2025

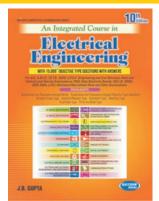


By Nitesh Tiwari

CONTENTS

Releasingshortly

COMPETITION BOOKS



An Integrated Course in **ELECTRICAL ENGINEERING**

(With 15000 Objective Type Questions with Answers)

10th Edition

Size: 23 × 36/8

Pages: 1225 Approx

ISBN: 978-93-5014-368-1

Price: ₹ 1295/-

Tenth Edition: 2025

By J.B. Gupta

CONTENTS

Section-I: Electric Circuits and Fields

 $\bullet DC\ Basics\ and\ Networks\ \bullet AC\ Basics\ and\ Networks\ \bullet Electromagnetic\ Field\ Theory\ \bullet\ Signals\ and\ Systems.$

Section-II: Electrical Engineering Materials and Electrical Machines

- Electrical Engineering Materials Transformers DC Machines Synchronous Machines Induction Machines Electrical Machine Design Section-III: Electrical and Electronic Measurements and Instrumentation
- Electrical and Electronic Measurements and Instruments Electrical and Electronic Instrumentation Section-IV: Electrical Power
- Electrical Power Generation and Economic Considerations Transmission and Distribution of Electrical Power Switchgear and Protection Electrical Energy Utilisation and Electric Traction Electrical Installation and Wiring
- Section-V: Analog and Digital Electronics, Power Electronics

 Basic Electronics (Electronic Devices and Circuits) Analog Electronics Digital Electronics Power Electronics.
- Section-VI: Computer Fundamentals and Micro-processors, Communication Systems and Control Systems
- Computer Fundamentals and Microprocessors Communication Systems Control Systems.
- Model Test Papers.

Explanations / Solutions Explanations / Sol

Explanation/Solution

An Integrated Course in ELECTRICAL ENGINEERING

(With 15000 Objective Type Questions with Answers)

For 10th Edition book of An Integrated Course in Electrical Engineering

Size: 23 × 36/8 Pages: 975 Approx

ISBN: 978-93-5014-666-8

Price: ₹ 1095/-Fourth Edition: 2025

By J.B. Gupta

Section-I: Electric Circuits and Fields

• DC Basics and Networks • AC Basics and Networks • Electromagnetic Field Theory • Signals and Systems.

Section-II: Electrical Engineering Materials and Electrical Machines

- Electrical Engineering Materials Transformers DC Machines Synchronous Machines Induction Machines Electrical Machine Design Section-III: Electrical and Electronic Measurements and Instrumentation
- Electrical and Electronic Measurements and Instruments Electrical and Electronic Instrumentation

Section-IV: Electrical Power

• Electrical Power Generation and Economic Considerations • Transmission and Distribution of Electrical Power • Switchgear and Protection • Electrical Energy Utilisation and Electric Traction • Electrical Installation and Wiring

Section-V: Analog and Digital Electronics, Power Electronics

• Basic Electronics (Electronic Devices and Circuits) • Analog Electronics • Digital Electronics • Power Electronics.

Section-VI: Computer Fundamentals and Micro-processors, Communication Systems and Control Systems

• Computer Fundamentals and Microprocessors • Communication Systems • Control Systems.