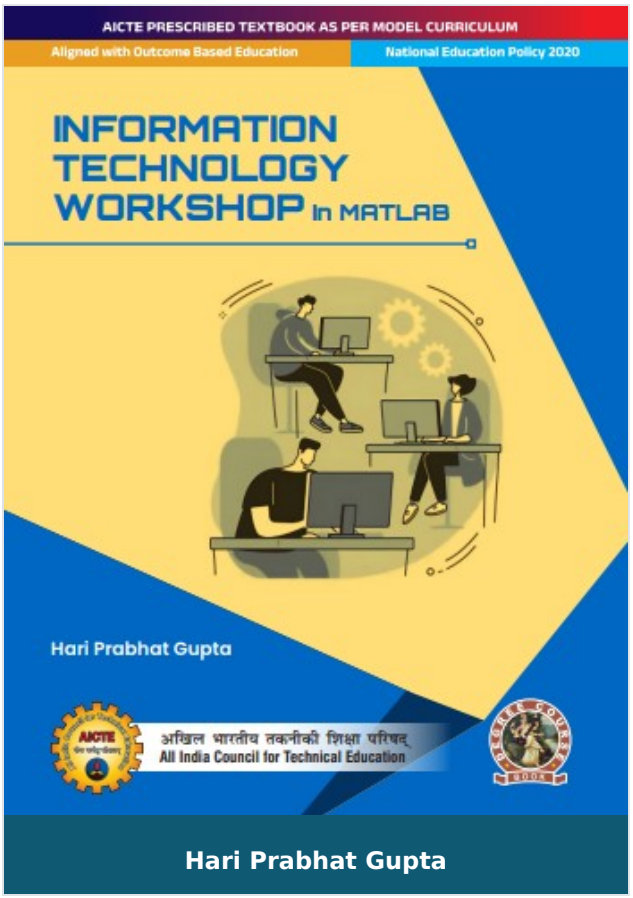


Information Technology Workshop in MATLAB

Author :	Hari Prabhat Gupta
ISBN 13 :	978-93-55389-68-8
ISBN 10 :	935538968X
E-ISBN 13 :	978-93-55389-68-8
Edition :	First
Pages :	224
Type of book :	Physical
Year :	2026
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 412.00
Categories :	AICTE Prescribed Textbooks, English Books, Book Store
Condition Type :	New
Country Origin :	India

Product Description

Information Technology Workshop in MATLAB

This book familiarizes the students to different domains of IT workshop. This covers one of the most widely used programming language i.e., MATLAB. Main purpose of this book is to help students and researchers to understand and apply the MATLAB programming language to applications in engineering science, biomedical science, etc. The main content of this book is aligned with the model curriculum of AICTE followed by concept of outcome-based education as per National Education Policy (NEP) 2020.

Salient Features:

- Content of the book aligned with the mapping of Course Outcomes, Programs Outcomes and Unit Outcomes.
- In the beginning of each unit learning outcomes are listed to make the student understand what is expected of him/her after completing that unit.
- Book provides lots of recent information, interesting facts, QR Code for E-resources, QR Code for use of ICT, projects, group discussion etc.
- Student and teacher centric subject materials included in book in balanced and chronological manner.
- Figures, tables, and software screen shots are inserted to improve clarity of the topics.
- Apart from essential information a 'Know More' section is also provided in each unit to extend the learning beyond syllabus.
- Short questions, objective questions and long answer exercises are given for practice of students after every chapter.
- Solved and unsolved problems including stepwise solved numerical are included in the book.

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- Vectors and Matrices in MATLAB
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- Branch Statements in MATLAB
- Loop Statements in MATLAB
- Image processing and File Handling in MATLAB
- MATLAB Program Organization and Debugging Techniques
- Unit summary
- Exercises
- Multiple choice questions

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- Answers to multiple choice questions
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Author

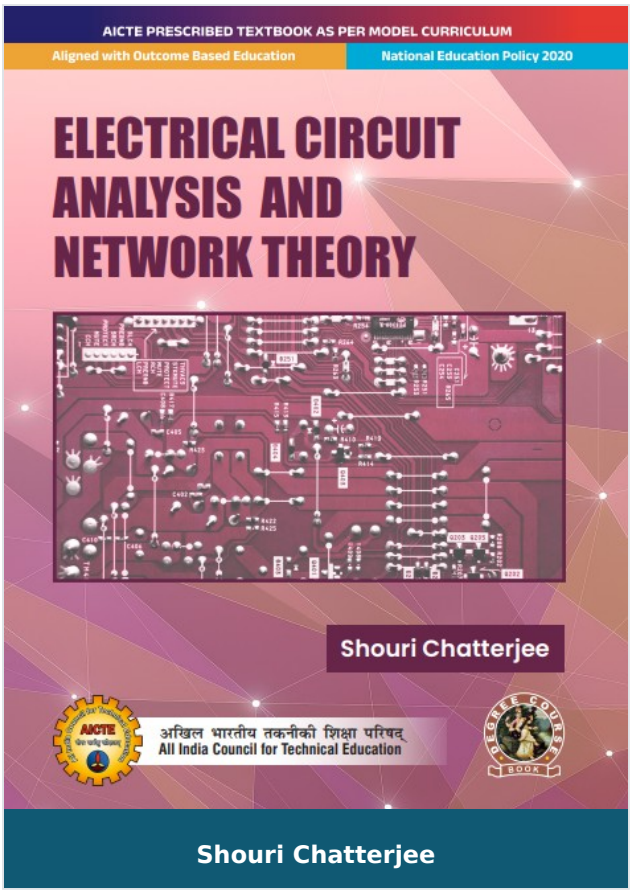
Hari Prabhat Gupta

Dr. Hari Prabhat Gupta, Ph.D. Associate Professor, Dept. of Computer Science & Engineering, IIT (BHU) Varanasi, India Dr.

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Electrical Circuit Analysis and Network Theory

Author :	Shouri Chatterjee
ISBN 13 :	978-93-55383-38-9
ISBN 10 :	935538338X
E-ISBN 13 :	978-93-55383-38-9
Edition :	First
Pages :	336
Type of book :	Physical
Year :	2026
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 598.00
Categories :	AICTE Prescribed Textbooks, English Books, Book Store
Condition Type :	New
Country Origin :	India

Product Description

Electrical Circuit Analysis and Network Theory

This introductory text book on Circuit Theory is designed for all second year (sophomore year) undergraduate students in Electrical and Electronics and Communications Engineering. The book follows the AICTE curriculum for both Electrical Circuit Analysis (PCC-EE01) and Network Theory (Ec06).

It is Expected that the EE/EC students will take up this book at the very beginning of his/her second year. The objective of the text book is to prepare the students for (1) power engineering, (2) power electronics, (3) communications engineering, (4) analog electronics, (5) control engineering, and (6) microwave engineering.

One of the features of the book is the guided use of numeral packages, such as MATLAB ® and Octave. These tools have deep relevance in Engineering and the Science today. The book exposes the student to these tools at a very early stage in his/her undergraduate journey. Full Octave programs for analysis with Laplace and Fourier transforms have been given. Project ideas for the development of an Octave-based circuit simulator have also been shown.

With approximately 100 worked out problems, approximately 200 exercises, and over 250 illustrations, the author hopes the textbook will add value to the students" understanding of circuits

and systems.

Salient Features:

- Content of the book aligned with the mapping of Course Outcomes, Programs Outcomes and Unit.

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- In the beginning of each unit learning outcomes are listed to make the student understand what is expected out of him/her after completing that unit.
- Book provide lots of recent information, interesting facts, QR Code for E-resources, QR Code for use of ICT, project, group discussion etc.
- Student and Teacher centric subject materials included In book with balanced and chronological manner.
- Figures, tables and software screenshots are inserted to improve clarity of the topics.
- Apart from essential information a Know More’ section is also provided in each unit to extend the learning beyond syllabus.
- Short questions, objective questions and long answer exercises are given for practice of students after every chapter.
- Solved and unsolved problems including numerical examples are solved with systematic steps.

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Author

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Environmental Science

Author :	Subrat Roy
ISBN 13 :	978-93-91505-65-3
ISBN 10 :	9391505651
E-ISBN 13 :	978-93-91505-65-3
Edition :	First
Pages :	120
Type of book :	Physical
Year :	2025
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 295.00
Categories :	AICTE Prescribed Textbooks, English Books, Book Store, Ebooks, APPPLIED SCIENCES & HUMANITIES
Condition Type :	New
Country Origin :	India

Product Description

“Environmental Science” is an audit course for the first year Diploma programme in Engineering & Technology. Syllabus of this book is strictly aligned as per model curriculum of AICTE, and academic content is amalgamated with the concept of outcome-based education.

Book covers four units- Ecosystem, Air and Noise Pollution, Renewable Sources of Energy and Solid waste management, ISO 14000 & Environmental Management, Every unit contains as set of exercise at the end of each unit to test the student’s comprehension.

Some salient features of the book:

1. Content of the book aligned with the mapping of Course Outcomes, Programs Outcomes and Unit Outcomes.

2. Book provides lots of recent information, interesting facts, QR Code for E-resources, QR Code for use of ICT, projects, group discussion etc.

3. Student and teacher centric subject materials included in book with balanced and chronological manner.

4. Figures and tables are insert to improve clarity of the topics.

5. Objective questions, Short questions and long answer exercise given for practice of students after every unit.

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- Renewable sources of Energy
- Soil waste Management, ISO 14000& Environmental management.
- Important Day Related to Environment
- CO and Po Attainment Table
- Index.

Author

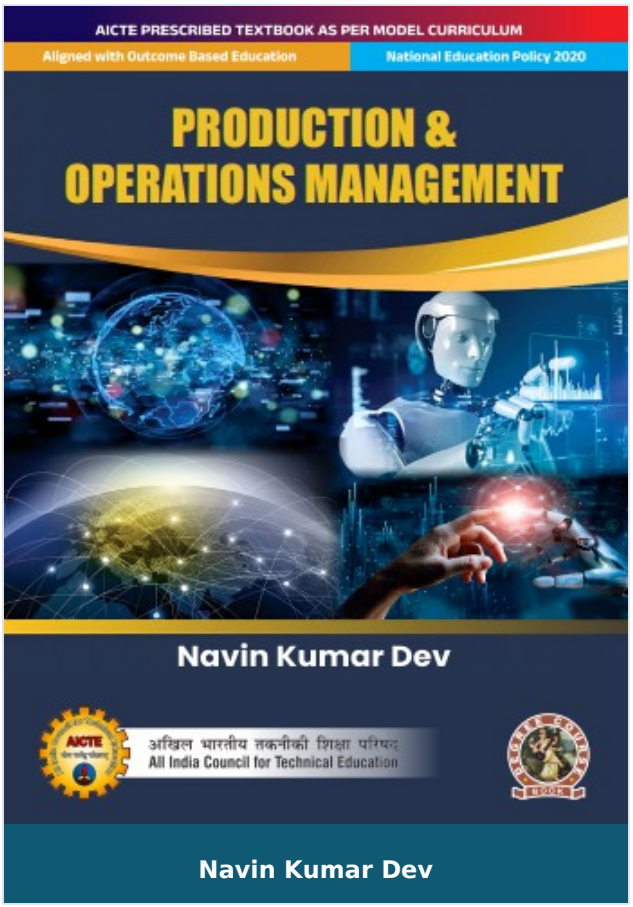
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Production & Operation Management

Author :	Navin Kumar Dev
ISBN 13 :	978-93-55384-58-4
ISBN 10 :	9355384580
E-ISBN 13 :	978-93-55384-58-4
Edition :	First
Pages :	796
Type of book :	Physical
Year :	2026
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 899.00
Categories :	AICTE Prescribed Textbooks, English Books
Condition Type :	New
Country Origin :	India

Product Description

Production & Operation Management

This book provides a comprehensive and in-depth exploration of Production Management, Project Management, Production Planning and Control, Digitalization in Factory Management, and Operations Research. It presents practical techniques and methodologies to address related challenges, offering clear, step-by-step solutions. With its systematic approach and detailed coverage, this book stands as an invaluable resource for mastering the subject.

Salient Features:

- Content of the book aligned with the mapping of Course Outcomes, Programs Outcomes, and Unit Outcomes.
- In the beginning of each unit learning outcomes are listed to make the student understand what is expected out of him/her after completing that unit.
- Book provides lots of information, interesting facts, QR codes for e-resources, QR codes for advance and contemporary techniques, etc.
- Student and teacher centric subject materials included in the book with balanced and chronological manner.
- Figures, tables, and pictures are inserted to improve the clarity of the topics.
- Apart from the essential information a “Along the...” section is also provided after the concerned topic to extend the learning beyond syllabus.
- Multiple Choice Questions, Short Answer Questions, and Long Answer Questions are given as the exercises for practice of students after every unit.
- Solved and Unsolved problems including numerical examples of the concerned topics are given for practice of students in a systematic manner.

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- Supply chain management
- Forecasting
- Facility layout
- Material Handling
- Lean and green manufacturing
- Process analysis and quality design

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- Transportation and assignment problems
- Queuing analysis
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Author

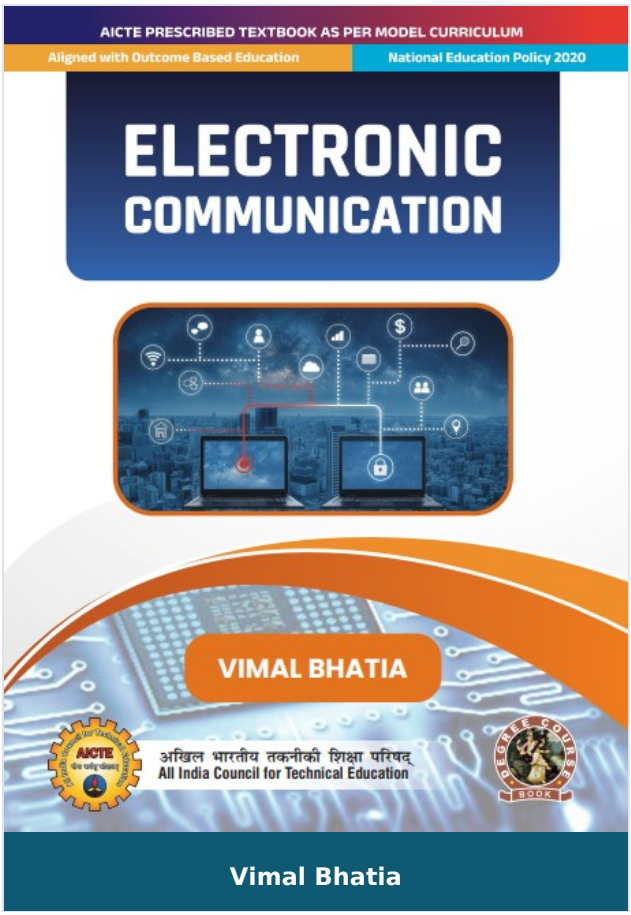
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Electronic Communication

Author :	Vimal Bhatia
ISBN 13 :	978-93-55384-65-2
ISBN 10 :	9355384653
E-ISBN 13 :	978-93-55384-65-2
Edition :	First
Pages :	196
Type of book :	Physical
Year :	2026
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 348.00
Categories :	AICTE Prescribed Textbooks, English Books, Book Store
Condition Type :	New
Country Origin :	India

Product Description

Electronic Communication

This book familiarizes the students to different domains of electronics communication. Main purpose of this book is to help students and researchers to understand basics of electronics communication. The main content of this book is aligned with the model curriculum of AICTE followed by concept of outcome-based education as per National Education Policy (NEP) 2020.

Salient Features:

- Content of the book aligned with the mapping of Course Outcomes, Programs Outcomes and Unit Outcomes.
- In start of eads unit learning outcomes are listed to make the student understand what is expected out of him/her after completing that unit.
- Book provides lots of recent information, interesting facts, QR Code for E resources, QR Code for use of ICT, projects, group discussion etc.
- Student and teacher centric subject materials included in book with balanced and chronological manner.
- Figures, tables, and software screen shots are inserted to improve clarity of the topics.
- Apart from essential information a 'Know More' section is also provided in each unit to extend the learning beyond syllabus.
- Short questions, objective questions and long answer exercises are given for practice of students after every chapter.
- Solved and unsolved problems including numerical examples are solved with systematic steps

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Author

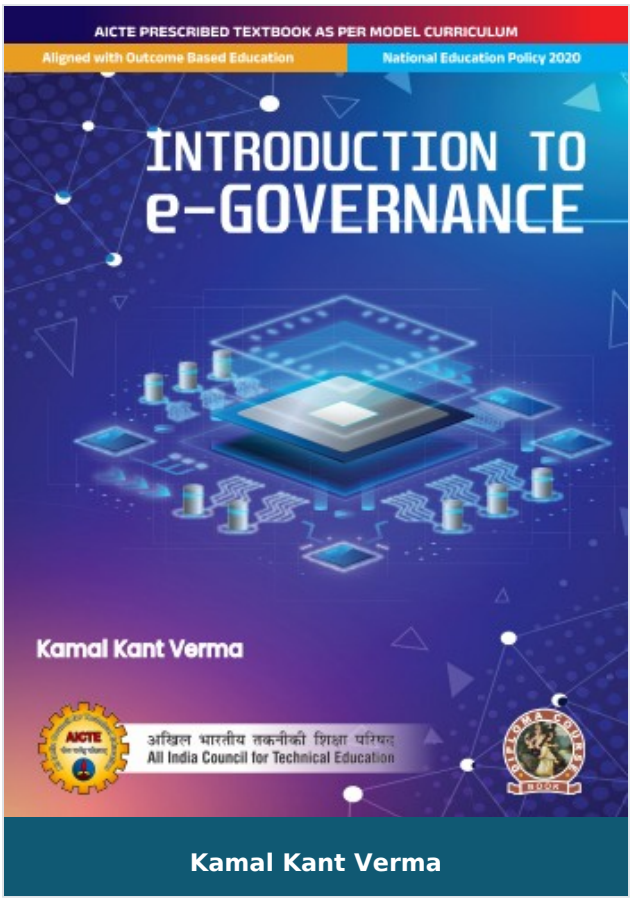
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Kamal Kant Verma

Introduction to e-Governance

Author :	Kamal Kant Verma
ISBN 13 :	978-93-55384-29-4
ISBN 10 :	9355384297
E-ISBN 13 :	978-93-55384-29-4
Edition :	First
Pages :	248
Type of book :	Physical
Year :	2026
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 438.00
Categories :	AICTE Prescribed Textbooks, English Books, Book Store
Condition Type :	New
Country Origin :	India

Product Description

Introduction to e-Governance

This book gives detailed description about introduction to e-governance, information and communication technology trends, e-government project, e-governance life cycle, architecture of e-governance and cyber laws. Logical organization and wide variety of e-governance with their detailed explanations makes this book a perfect offering on the subject.

Salient features:

- Content of the book aligned with the mapping course outcomes, programs and Units Outcomes.
- In the beginning of each unit learning outcomes are listed to make the student understand what is expected out of him/her after completing that unit.
- Book provides lots of recent information, interesting facts, QR code for E-resources, QR code for use of ICT, projects, group discussion etc.
- Student and teacher centric subject materials included in book with balanced and chronological manner.
- Figures, tables, and software screen shots are inserted to improve clarity of the topics.
- After completion of each chapter, a summary of the unit is also provided apart from essential information.
- Short questions, objective questions and long answer exercises are given for practice of students after every chapter.
- After each chapter` references and suggested readings’ is also provided for deeper understanding of the concepts.

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- References for Further Learning
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Author

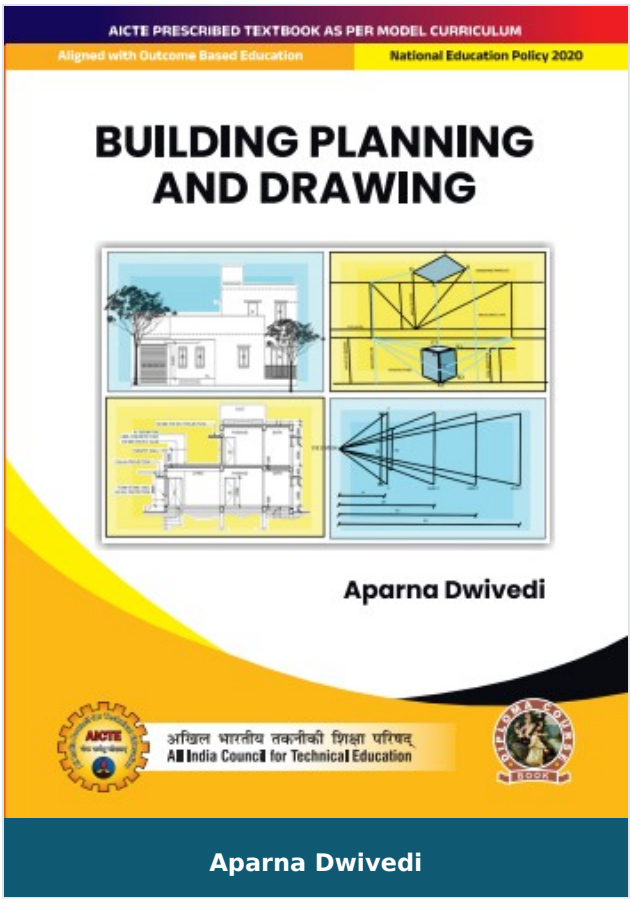
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Dr. Kamal Kant Verma Professor, IILM University

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Building Planning and Drawing

Author :	Aparna Dwivedi
ISBN 13 :	978-93-55384-37-9
ISBN 10 :	9355384378
E-ISBN 13 :	978-93-55384-37-9
Edition :	First
Pages :	144
Type of book :	Physical
Year :	2026
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 284.00
Categories :	AICTE Prescribed Textbooks, English Books, Book Store
Condition Type :	New
Country Origin :	India

Product Description

Building Planning and Drawing

Building Planning and Drawing will be a very useful book for Civil Engineering and Building Industry. The focus of this book is the foundation of building design and understand the building vocabulary along with the process to approve plans and also writing specifications and Estimates. Different types of lines, types of scale, principles of planning for Residential and public building and the book also gives examples of line plans of residential building and public buildings like – school building, primary health Centre, restaurant, bank, post office, hostel, Function Hall and Library. Detailed drawings of load bearing structure and Framed

S

Salient features:

- Content of the book aligned with the mapping course outcomes, programs and Units Outcomes.
- In the beginning of each unit learning outcomes are listed to make the student understand what is expected out of him/her after completing that unit.
- Book provides lots of recent information, interesting facts, QR code for E-resources, QR code for use of ICT, projects, group discussion etc.
- Student and teacher centric subject materials included in book with balanced and chronological manner.
- Figures, tables, and software screen shots are inserted to improve clarity of the topics.
- Apart from essential information a ‘know more’ section is also provided in each unit to extend the learning beyond syllabus.

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- Short questions, objective questions and long answer exercises are given for practice of students after every chapter.

Solved and unsolved problems including numerical examples are solved with systematic steps.

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Author

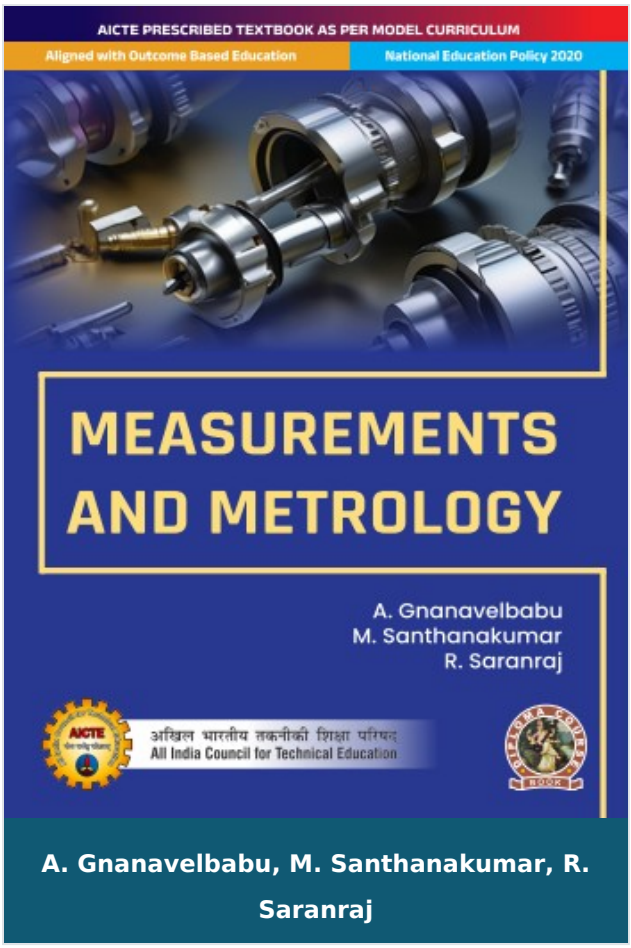
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A. Gnanavelbabu, M. Santhanakumar, R. Saranraj

Measurements and Metrology

Author :	A. Gnanavelbabu, M. Santhanakumar, R. Saranraj
ISBN 13 :	978-93-55385-99-4
ISBN 10 :	9355385994
E-ISBN 13 :	978-93-55385-99-4
Edition :	First
Pages :	296
Type of book :	Physical
Year :	2026
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 548.00
Categories :	AICTE Prescribed Textbooks, English Books, Book Store
Condition Type :	New
Country Origin :	India

Product Description

Measurements and Metrology

This book familiarizes students with the critical domains of Measurements and Metrology. It provides a comprehensive understanding of basic science for engineering students. Covering the fundamentals of measurements and metrology, and enables them to gain insight into the subject. The book covers essential topics such as dimensional measurements, calibration techniques, mechanical measurement system, and various metrology tools and their applications in engineering problems. The primary content of this book aligns with the model curriculum of AICTE and fellow the outcomes-based education concepts as per the National Education Policy (NEP)2020.

Salient features:

- Content of the book aligned with the mapping course outcomes, programs and Units Outcomes.
- In the beginning of each unit learning outcomes are listed to make the student understand what is expected out of him/her after completing that unit.
- Book provides lots of recent information, interesting facts, QR code for E-resources, QR code for use of ICT, projects, group discussion etc.
- Student and teacher centric subject materials included in book with balanced and chronological manner.
- Figures, tables, and software screen shots are inserted to improve clarity of the topics.
- Apart from essential information a ‘know more’ section is also provided in each unit to extend the learning beyond syllabus.
- Short questions, objective questions and long answer exercises are given for practice of students after every chapter.

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- APPLIED MECHANICAL MEASUREMENT
- LIMITS, FITS & TOLERANCES
- GEAR MEASUREMENT AND TESTING
- MEPC210 Measurements & Metrology Lab
- Suggested Reading & References
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- Index

Author

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Dr. M. Santhanakumar Assistant Professor Department of Industrial Engineering College of Engineering Guindy, Anna University, Chennai – 600025, Tamilnadu, India Mr.

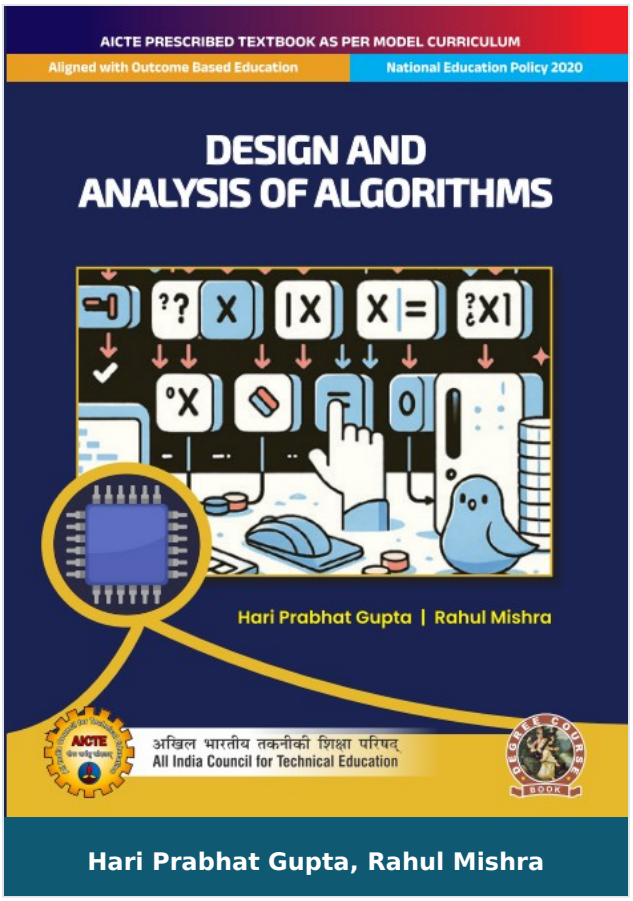
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Design and Analysis of Algorithms

Author :	Hari Prabhat Gupta, Rahul Mishra
ISBN 13 :	978-93-55386-70-0
ISBN 10 :	9355386702
E-ISBN 13 :	978-93-55386-70-0
Edition :	First
Pages :	324
Type of book :	Physical
Year :	2026
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 598.00
Categories :	AICTE Prescribed Textbooks, English Books, Book Store
Condition Type :	New
Country Origin :	India

Product Description

Design and Analysis of Algorithms

This book offers an in-depth exploration of designing and analysing algorithms. It covers topics such as algorithmic analysis, design principles, theoretical proofs, and practical applications. The content includes a logical example explaining the concepts, accompanied by a diverse range of solved and unsolved problems. Each problem is accompanied by step-by-step solutions, providing readers with a comprehensive understanding of algorithmic design and analysis. With its systematic approach, programming-based solutions, and thorough examples, this book serves as an ideal resource for those curious to learn basic to high level concept of algorithm design.

Salient Features:

- Content of the book aligned with the mapping of Course Outcomes, Programs Outcomes and Unit Outcomes.
- In the beginning of each unit learning outcomes are listed to make the student understand what is expected of him/ her after completing that unit.
- Book provides lots of recent information, interesting facts, logical examples, and solved programming exercises. Theorems and their proofs are added to provide detailed insight of analysis.
- Student and teacher centric subject material included in book in balanced and chronological manner.
- Figures, tables, and image-based elaborate examples are inserted to improve clarity of the topics. Salient Features:
- Short and long answer questions are given for practice of students after every chapter for practice of students after every chapter.

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- Solved and Unsolved programming exercises are included in the appendix of the book.
- QR Code at the start of every chapter provide convenient access to electronic resources, including solutions to programming problems, discussions on key concepts, and project topics for students

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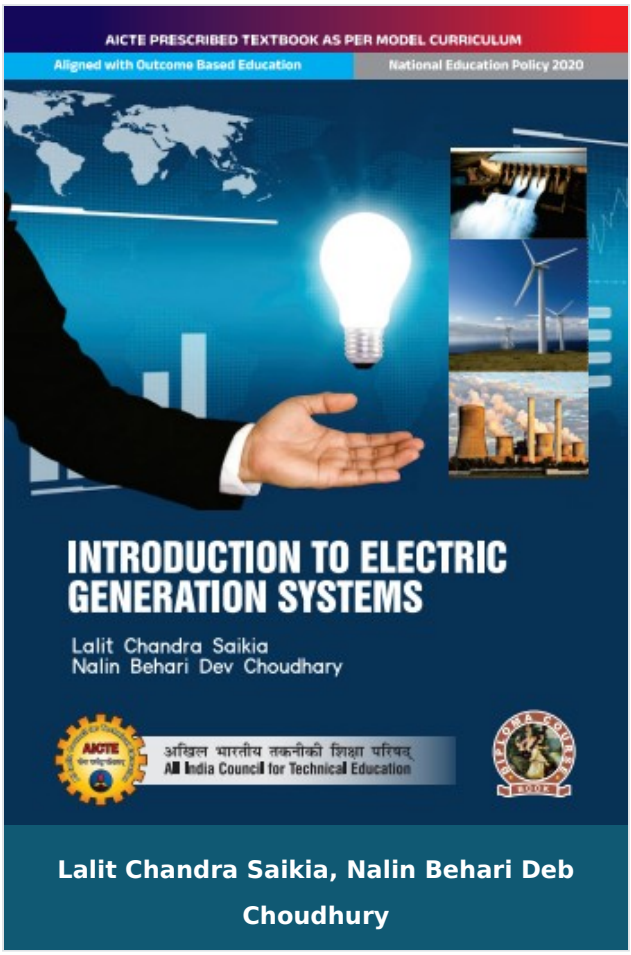
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Introduction to Electric Generation Systems

Author :	Lalit Chandra Saikia, Nalin Behari Deb Choudhury
ISBN 13 :	978-93-55386-56-4
ISBN 10 :	9355386567
E-ISBN 13 :	978-93-55386-56-4
Edition :	First
Pages :	312
Type of book :	Physical
Year :	2026
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 576.00
Categories :	AICTE Prescribed Textbooks, English Books, Book Store
Condition Type :	New
Country Origin :	India

Product Description

Introduction to Electric Generation Systems

This book familiarizes the students with the basics of electrical power generation. This covers all the thermal, hydro, solar, wind, and biomass power plants. The interconnected power systems, power plant economics, and related terms, blackout, and brownout are also included. The basic principles, layout, working, types, and related components of all the power plants, and practical experiments are described clearly. The main content of this book is aligned with the model curriculum of AICTE followed by the concept of outcome-based education as per the National Education Policy (NEP)2020.

Salient features:

- Content of the book aligned with the mapping course outcomes, programs and Units Outcomes.
- In the beginning of each unit learning outcomes are listed to make the student understand what is expected out of him/her after completing that unit.
- Book provides lots of recent information, interesting facts, QR code for E-resources, QR code for use of ICT, projects, group discussion etc.
- Student and teacher centric subject materials included in book with balanced and chronological manner.
- Figures, tables, and software screen shots are inserted to improve clarity of the topics.
- Apart from essential information a ‘know more’ section is also provided in each unit to extend the learning beyond syllabus.
- Short questions, objective questions and long answer exercises are given for practice of students after every chapter.

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- Solved and unsolved problems including numerical examples are solved with systematic steps.

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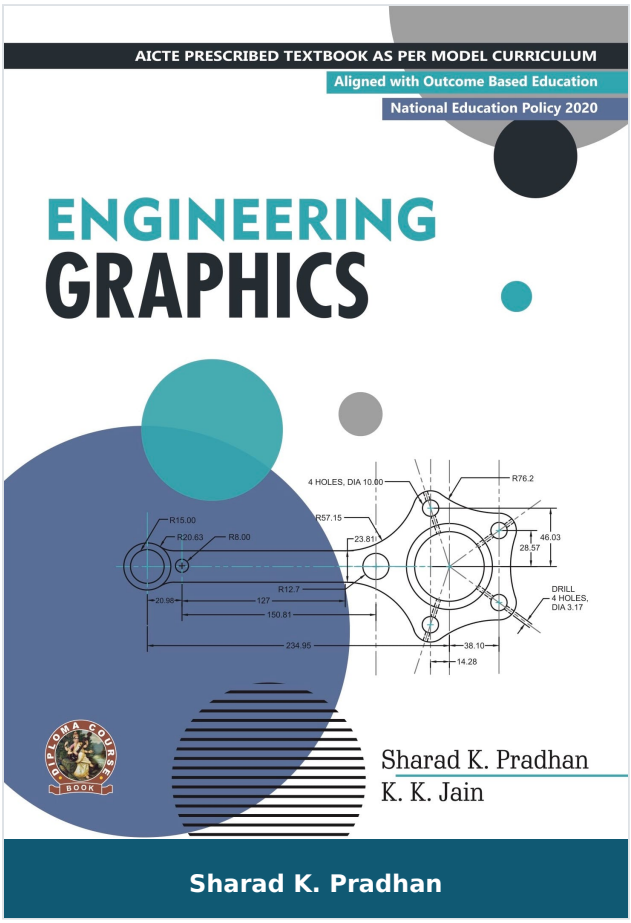
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Engineering Graphics

Author :	Sharad K. Pradhan
ISBN 13 :	978-93-91505-50-9
ISBN 10 :	9391505503
E-ISBN 13 :	978-93-91505-50-9
Edition :	First
Pages :	272
Type of book :	Physical
Year :	2025
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 295.00
Categories :	AICTE Prescribed Textbooks, English Books, Book Store, Ebooks, APPPLIED SCIENCES & HUMANITIES
Condition Type :	New
Country Origin :	India

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Product Description

“ Engineering Graphics” is a compulsory paper for the first year Diploma course in Engineering & Technology.Syllabus of this book is strictly aligned as per model curriculum of AICTE, and academic content is amalgamated with the concept of outcome based education.

Book covers six topics- Basic Elements of drawing , Orthographic Projections, Isometric Projections, Free Hand Sketcher of Engineering Elements, Computer Aided Drafting Interface, Computer Aided Drafting. Each topic is written in easy and lucid manner. Every chapter contains a set of exercise at the end of each unit to test the student’s comprehension.

Some salient features of the book:

1. Content of the book is aligned with the mapping of Course Outcomes, Programs Outcomes and Unit Outcomes.

2. In start of each unit learning outcomes are listed to make the student understand what is expected out of him/ her after completing that unit.

3. Book provides lots of recent information, interesting facts, Codes for E-resources, QR Code for use of ICT, projects, group discussion etc.

4. Student and teacher centric subject materials included in book with balanced and chronological manner.

5. Figures, tables and software screen shots are inserted to improve clarity of the topics.

6. Apart from essential information a ‘Know More’ section is also provided in each unit to extend the learning beyond syllabus.

7. Short questions, objective questions and long answer exercises are given for practice of students after every chapter.

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8. Solved and unsolved problems including numerical examples are solved with systematic steps.

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- Free Hand Sketches of Engineering Elements
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- Computer Aided Drafting

Author

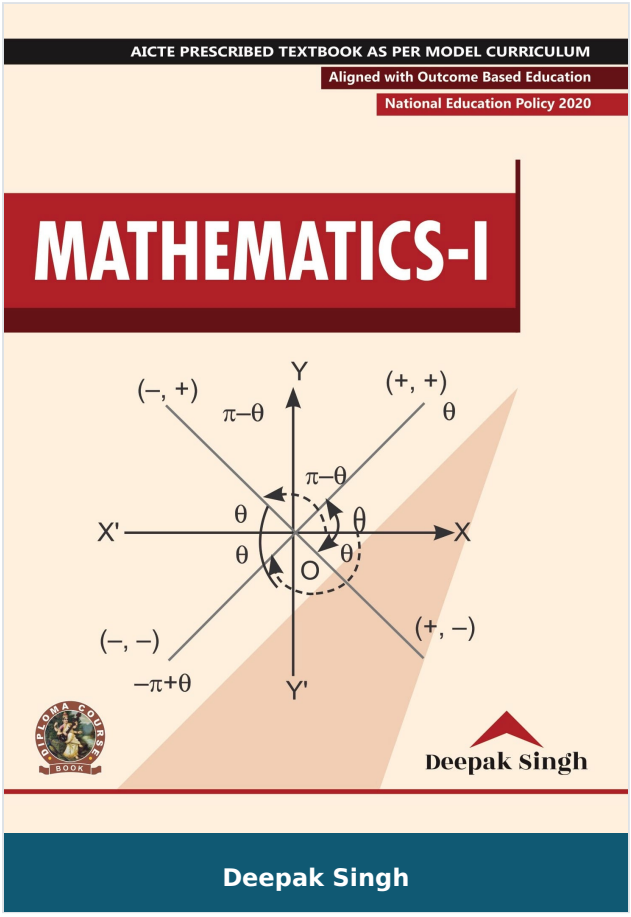
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Mathematics I

Author :	Deepak Singh
ISBN 13 :	978-93-91505-42-4
ISBN 10 :	9391505422
E-ISBN 13 :	978-93-91505-42-4
Edition :	First
Pages :	180
Type of book :	Physical
Year :	2024
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 295.00
Categories :	AICTE Prescribed Textbooks, English Books, Book Store, Ebooks, APPPLIED SCIENCES & HUMANITIES
Condition Type :	New
Country Origin :	India

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Product Description

“Mathematics-I” is included as a paper for the first year Diploma program. Syllabus of this book is strictly aligned as per model curriculum of AICTE, and academic content is combined with the concept of outcome-based education.

Book cover five Units Trigonometry, Functions and Limit, Differential Calculus, Complex numbers and partial Fraction, Permutation and Combination and Binomial Theorem. In every unit each topic is written in easy and lucid manner. A set of exercise at the end of each unit is clubbed to test the student’s comprehension.

Some salient features of the book:

· Content of the book aligned with the mapping of Course Outcomes, Programs Outcomes and Unit Outcomes.

· Book provides lots of real-world applications, interesting facts, QR Code for E-resources, mini projects, curiosity topics, sample specification table etc.

· Students and teacher centric subject materials included in book with balanced and chronological manner.

· Figures, tables and mathematical equations are inserted to improve clarity of the topics.

· Short questions, objective questions and long answer exercises are given for practice of students after every chapter.

· Comprehensive synopsis of formulae for a quick revision of the basic principles.

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- Differential Calculus
- Complex Numbers and Partial Fraction
- Permutation and Combination, Binomial Theorem
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- References for Further Learning
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- Index

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