

## Fundamentals of Power Electronics

<b>Author :</b>	Soumitra Kumar Mandal
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### Product Description

Fundamentals of Power Electronics



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# Human Resource Management

DR. PREMVIR KAPOOR



## Human Resource Management

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## Product Description

**Human Resource Management** Human resource management by Dr. Premvir Kapoor is a comprehensive and forward-looking guide designed to navigate the complexities of managing people in a rapidly evolving global economy. Recognizing that human capital is an organization's most vital and appreciating asset, the book shifts the focus from traditional, rule-bound personnel management to a modern, humanitarian, and strategic approach. It explores how socioeconomic, technological, and political shifts – such as globalization and the rise of WTO—demand innovative mechanisms for developing employee skills and competencies. Specifically tailored for students for students of BBA, MBA, and M. Com, the text presents complex concepts in a simple, compact, and easily understandable manner. It bridges the gap between academic theory and professional practice by covering essential topics like job analysis, recruitment, performance appraisal, and the emerging field of human resource Accounting. Whether you are a student preparing for professional examinations or a manager seeking to improve organizational effectiveness through a motivated workforce, this book provides the necessary tools to transform human potential into a source of sustainable competitive advantage. **Salient Features:**

- **Strategic Capital Focus:** the text treats human resources as a form of capital and a primary investment, emphasizing that while other resources depreciate, human value appreciates through experience.
- **Comprehensive functional coverage:** it provides an in-depth look at the entire HRM lifecycle, including meticulous processes for manpower planning, recruitment, selection, and induction.
- **Scientific job Analysis:** The book details systematic methods for job description and specification, utilizing both quantitative and non-quantitative techniques to define roles and responsibilities accurately.
- **Advanced performance metrics:** Readers are introduced to sophisticated evaluation tools such as the balanced scorecard and HR scorecard to link people management directly to business performance.
- **Human Resource Accounting:** It explores modern valuation methods and models, like the lev and schwarts model, to measure the economic value of human resources within financial statements.
- **Organizational Development Insights:** The content emphasizes building an enabling culture through OD interventions, team development, and the use of change agents to faster innovation.
- **Analytical**



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## Table of Contents

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### Preface

- Managing Human Resources
- Human Resource Management
- Human Resource Planning
- Job Analysis
- Recruitment and Selection
- Training and Development
- Human Resources Development
- Performance Appraisal and Compensation Management
- Employee Relations
- Personnel Policy, Research and Audit
- Human Resource Accounting
- Auditing and Accounting

### Key Terms Questions for Review Bibliography

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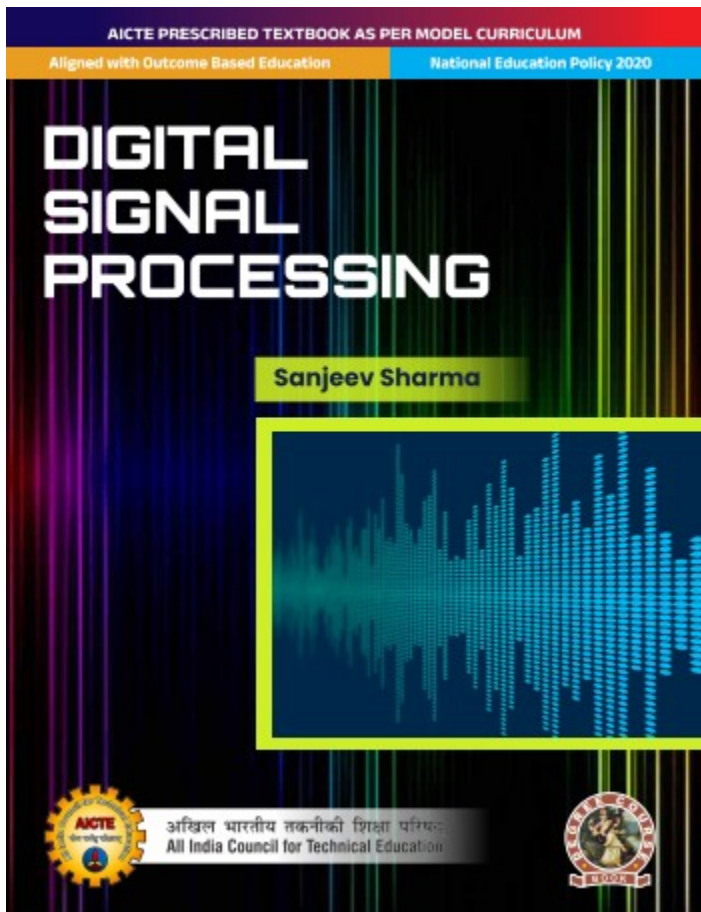
## Author

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**Dr. Premvir Kapoor** BBM(BHU), MBA(Podar Institute of Management), LLB Delhi, Ph.D(Meerut University), Diploma in Training and Development, ISTD New Delhi, Diploma in Corporate Laws and Secretarial Practice(Indian Law institute New Delhi). He has worked s Director in Sri Ram Institute of Management and IIMT Institute of Management, Greater Noida and Professor of Human Resource Management at IMS Ghaziabad and Lingaya University Faridabad. He has been associated with some of the leading Institutes of Company Secretaries of India, Institute of Marketing management, Western U.P Productional Council. He is a member of Indian Law Institute, New Delhi. He has been visiting faculty at various prestigious business schools.

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## Digital Signal Processing

<b>Author :</b>	Sanjeev Sharma
<b>ISBN 13 :</b>	978-93-55386-57-1
<b>ISBN 10 :</b>	93-55386-57-5
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<b>Condition Type :</b>	New
<b>Country Origin :</b>	India

## Product Description

**Digital Signal Processing** This book familiarizes students with different domains of electronics communication. The main purpose of this book is to help students and researchers understand the basics of signal processing concepts. The content is aligned with the model curriculum of AICTE and follows the concepts of outcome-based education as per the National Education Policy (NEP)2020. Salient Features:

- The content of the book is aligned with the mapping of Course Outcomes, Program Outcomes, And Unit Outcomes.
- At the beginning of each unit, learning outcomes are listed to help students understand what is expected of them after completing the unit.
- The book provides lots of recent information, QR codes for resources, projects, and more.
- Figures, tables, and software screenshots are included to enhance the clarity of the topics.
- Many solved examples are included in each chapter to improve the numerical solving skills not students.
- Exercises are provided for student practice after every chapter.
- Applications of digital signal processing are included.

## Table of Contents

Foreword Acknowledgement Preface Outcome Based Education Course Outcomes Guidelines for Teachers Guidelines for Students Abbreviations and Symbols List of Figures List of Tables

- Introduction
- Classification of Signals and Systems
- Discrete-Time Signals and Systems
- Z-Transform
- DTFT: Discrete Time Fourier Transform
- DFT: Discrete Fourier Transform
- FFT: Fast Fourier Transform
- Design of Digital Filters
- Multirate Digital Signal Processing
- Application of Digital Signal Processing

Bibliography and Suggested Reading Digital Signal Processing Laboratory CO and PO



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## Author

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**Dr. Sanjeev Sharma** Assistant Professor Department of Electronics Engineering, Indian Institute of Technology (BHU), Varanasi

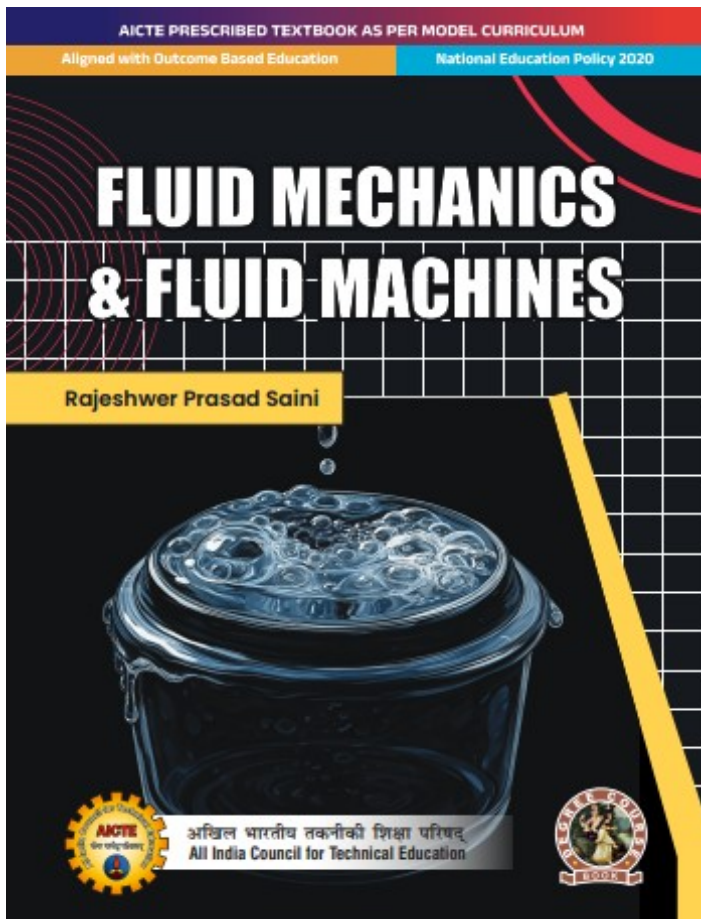
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## Fluid Mechanics & Fluid Machines

<b>Author :</b>	R.P. Saini
<b>ISBN 13 :</b>	978-93-55388-37-7
<b>ISBN 10 :</b>	93-55388-37-3
<b>E-ISBN 13 :</b>	978-93-55388-37-7
<b>Edition :</b>	First
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<b>Publisher :</b>	Khanna Publishing House
<b>M.R.P :</b>	Rs 464.00
<b>Categories :</b>	<a href="#">AICTE Prescribed Textbooks, English Books</a>
<b>Condition Type :</b>	New
<b>Country Origin :</b>	India

## Product Description

**Fluid Mechanics & Fluid Machines** This book familiarizes the students to different domains of Fluid Mechanics & Fluid Machines. This covers fundamentals of fluid mechanics, fluid dynamics, dimensional analysis, water turbines and pumps. Main purpose of the book is to help students and researchers to understand and apply the fundamentals to applications in engineering problems. 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 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.
- Solved and unsolved problems including numerical examples are solved with systematic steps

## Table of Contents

Acknowledgement Preface Outcome Based Education Course Outcomes Guidelines for Teachers Guidelines for Students Abbreviations and Symbols List of Figures List of Tables

- Fundamentals of Fluid Mechanics
- Fluid Dynamics
- Dimensional Analysis
- Fluid Machines – Pumps
- Fluid Machines – Water Turbines



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## Author

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**Dr. R.P. Saini** Department of Hydro and Renewable Energy Indian Institute of Technology Roorkee

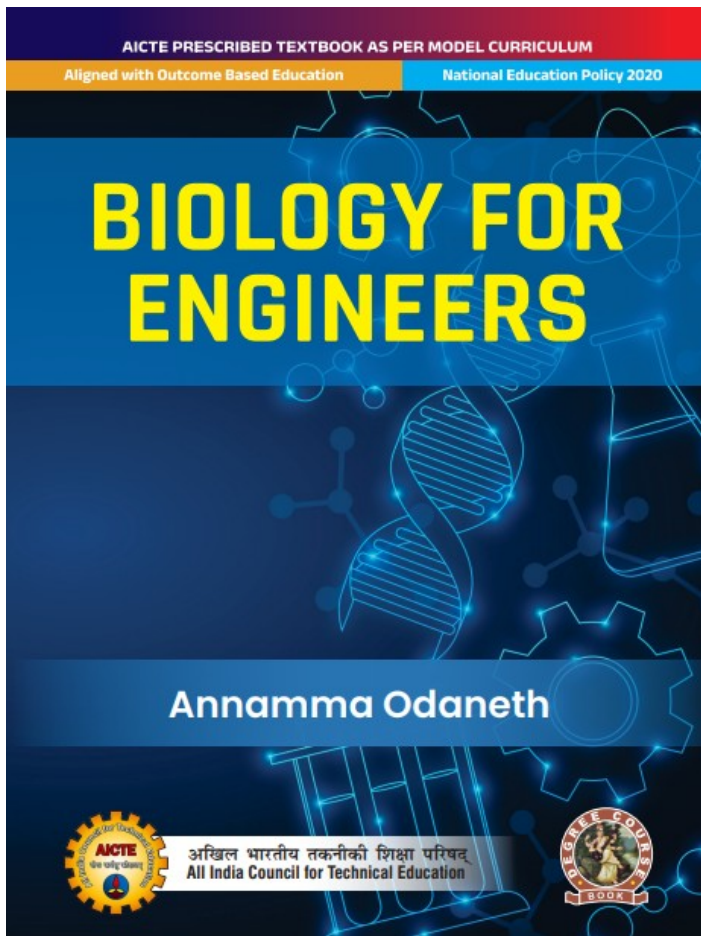
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## Biology for Engineers

<b>Author :</b>	Annamma Odaneth
<b>ISBN 13 :</b>	978-93-55386-98-4
<b>ISBN 10 :</b>	93-55386-98-2
<b>E-ISBN 13 :</b>	978-93-55386-98-4
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<b>Categories :</b>	<a href="#">AICTE Prescribed Textbooks,</a> <a href="#">English Books</a>
<b>Condition Type :</b>	New
<b>Country Origin :</b>	India

## Product Description

**Biology for Engineers** This text book on Biology for Engineers provides foundation of the subject to the reader. It familiarizes readers to important basic technical concepts of cell, its parts, its characterization and other basic biology topics that are the backbone of any work done. The main concept 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 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.
- Short questions, objective questions and long answer exercises are given for practice of students after every chapter.
- Unsolved problems are solved with systematic steps.



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- ENZYMES
- INFORMATION TRANSFER
- MACROMOLECULAR ANALYSIS
- METABOLISM
- MICROBIOLOGY

CO-PO Attainment Table Index

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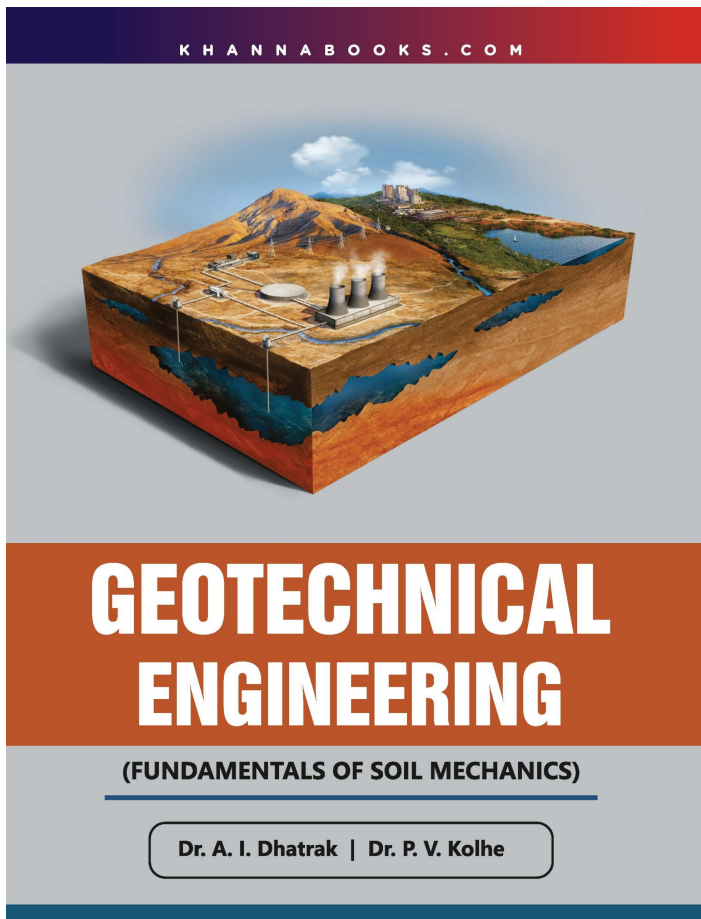
## Author

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**DR. ANNAMMA ODANETH (PhD)** Associate Professor DBT-ICT Centre for Energy Biosciences Institute of Chemical Technology Nathalal Parikh Marg Matunga, Maharashtra

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## Geotechnical Engineering (Fundamentals of Soil Mechanics)

<b>Author :</b>	A. I. Dhatrik
<b>ISBN 13 :</b>	978-93-55386-62-5
<b>ISBN 10 :</b>	93-55386-82-1
<b>E-ISBN 13 :</b>	978-93-55386-62-5
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<b>Categories :</b>	<a href="#">Civil Engineering</a>
<b>Condition Type :</b>	New
<b>Country Origin :</b>	India

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## Product Description

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**Geotechnical Engineering (Fundamentals of Soil Mechanics)** This book offers comprehensive information about the fundamental concepts of soil behavior and geotechnical engineering for students, educators and professionals. It explains the types, classification and properties of soil along with its procedure in a clear detailed manner. Covering historical development, Formation, three phase diagram, index as well as engineering properties such as compaction, permeability, seepage analysis, stresses, consolidation and shear strength, the book draws from international standards such as ASTM, KIS. One of the key strengths is clear explanation of complex concepts using real world examples and historical case studies making it a valuable reference across various geotechnical engineering solutions. Salient Features

- It provides fundamental information about the soil formation and its classification.
- It includes detailed information about the index and engineering properties which controls the behaviour of soil.
- It is rich in solved examples and case studies which make it more clear and easy to understand.
- It provides detailed procedure for testing the soil as per Indian standard.
- It includes data from ASTM, BIS and other international standard.
- It includes applications of soil engineering in the field of Civil Engineering.



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## Table of Contents

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- Introduction
- Soil Phase System and Its Relationships
- Soil Properties and Its Determination
- Soil Classification System
- Soil Structure and Clay Mineralogy
- Compaction of Soils
- Permeability of Soils
- Seepage Analysis
- Stress Distribution in Soil Mass
- Shear Strength of Soil
- Compressibility and Consolidation of Soil
- Field Applications of Geotechnical Engineering

Soil Testing: Is Codes Soil Testing: General Procedure Bibliography

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## Author

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**Dr. A.I. Dhatrak** (BE, ME, PhD) is an Associate professor at Government college of Engineering, Amravati with over 37 years of teaching experience. He is working as National Executive Council Member for ISTE, New Delhi since 2006. He holds senior positions including chairman - IGS Amravati Chapter, Member BOS at Amravati University, and Ex - Dean Academics at GCOEA. His research interests primarily focus on geotechnical Engineering and Water Resources Engineering along with consultancy services. He is life member of various professional societies like IGS, ISTE, IEI, IWWA, ISH, IRC and ICI. **Dr. P. V. Kolhe** (B. Tech, M. Tech, PhD) is an Assistant professor at PRMIT&R, Badnera, Amravati with over 12 Years of teaching experience. His research interests primarily focus on geotechnical and Transportation Engineering along with consultancy services. He is life member of various professional societies like IGS, ISTE, and IEI.

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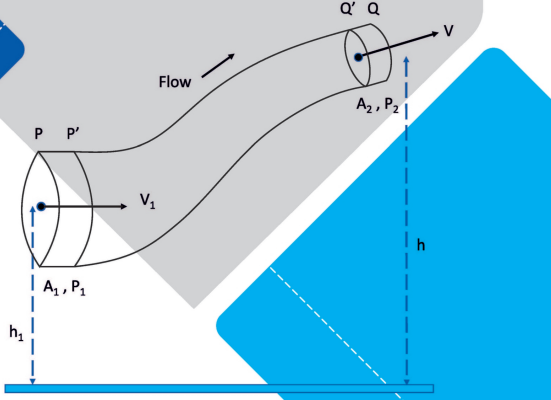
ಮಾದರಿ ಪಠ್ಯಕ್ರಮದ ಅನುಸಾರ ಎಐಸಿಟಿಇ ಶಿಫಾರಸು ಮಾಡಿರುವ ಪಠ್ಯಪುಸ್ತಕ

ಫಲಿತಾಂಶ ಆಧಾರಿತ ಶಿಕ್ಷಣದೊಂದಿಗೆ ಹೊಂದಿಸಲಾಗಿದೆ

ರಾಷ್ಟ್ರೀಯ ಶಿಕ್ಷಣ ನೀತಿ 2020

# ಅನ್ವಯಿಕ ಭೌತಶಾಸ್ತ್ರ - I

(ಲ್ಯಾಬ್ ಕೈಪಿಡಿಯೊಂದಿಗೆ)



ಮೀನಾ ತಲಾಟಿ  
ಬಿನ್ನೋದ ಕುಮಾರ್ ಯಾದವ್

## Applied Physics-I (with Lab Manual)

<b>Author :</b>	Mina Talati
<b>ISBN 13 :</b>	978-93-91505-85-1
<b>ISBN 10 :</b>	93-91505-85-6
<b>E-ISBN 13 :</b>	978-93-91505-85-1
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## Product Description

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“Applied Physic-I” is a compulsory paper for the first year Diploma course in Engineering & Technology. Syllabus of this books is strictly aligned as per model curriculum of AICTE, and academic content is amalgamated with the concepts of outcome-based education. Book covers six topics- Physical World, Units and Measurements; Force and Motion; Work, Power and Energy; Rotational Motion; Properties of Matter; Heat and Thermometry. 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 Outcome, Programs Outcomes and Unit Outcomes. 2. Book provides lots of interested facts, QR Code for E-resources, QR Code for use of ICT etc. 3. Students and teacher centric subject materials are included in book with balanced and chronological manner. 4. Figures and tables are inserted to improve clarity of the topics. 5. Short questions, objective questions and long answer exercises of different difficulty levels are given for practice after every chapter. 6. Solved numerical examples are provided with systematic steps in each chapter followed by numerical exercises with hints.

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## Table of Contents

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**Unit 1:** Physical World, Units and Measurements.

**Unit 2:** Force and Motion.

**Unit 3:** Work, Power and energy.

**Unit 4:** Rotational Motion.

**Unit 5:** Properties of Matter.

**Unit 6:** heat and Thermometry.

**Annexes**

**Appendices**

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## Authors

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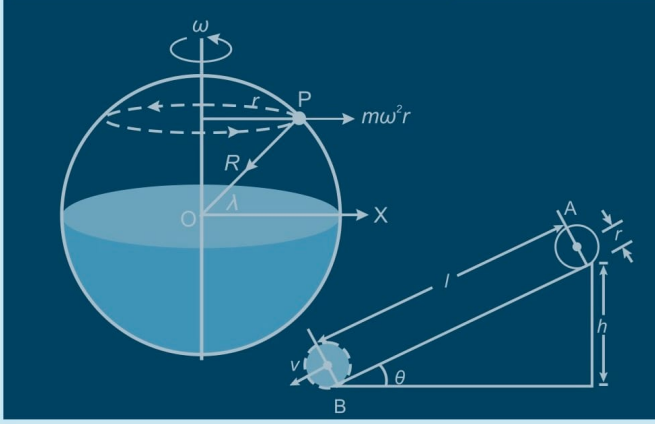
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மாதிரி பாடத்திட்டத்தின்படி AICTE - ஆல் பரிந்துரைக்கப்பட்ட பாடப்புத்தகம்

வெளிப்பாடு அடிப்படையிலான கல்வியின்படி வழுவமைக்கப்பட்டது

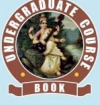
தேசிய கல்விக் கொள்கை 2020



# இயற்பியல்

இயந்திரவியல் - ஓர் அறிமுகம்

(ஆய்வக கையேட்டுடன்)



ஏ.பி. பட்டாச்சார்யா | அடானு நாக்

## Physics (Introduction to Mechanics) (with Lab Manual)

**Author :** A. B. Bhattacharya

**ISBN 13 :** 978-93-91505-76-9

**ISBN 10 :** 93-91505-76-7

**E-ISBN 13 :** 978-93-91505-76-9

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**Country Origin :** India



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## Product Description

**Physics: Introduction to Mechanics** has been written for the first year students of B Tech Engineering Degree Courses of all Indian Universities following the guideline and syllabus as recommended by AICTE. The book, written in a very simple and lucid way, will be very much helpful to reinforce understanding of different aspects to meet the engineering student's needs. Writing a text-cum manual of this category poses several challenges providing enough content without sacrificing the essentials, highlighting the key features, presenting in a novel format and building informative assessment. This book on engineering physics will prepare students to apply the knowledge of Mechanics to tackle 21 century and onward engineering challenges and address the related questions.

### Some Salient features of the book:

- € €1. Expose basic science to the engineering students to the fundamentals of physics and to enable them to get an insight of the subject.
- € €2. To develop knowledge on critical questions solved and supplementary problems covering all type of medium and advanced level
- € €3. Under problems in a very logical and systematic manner.
- € €4. Some essential information for the user the

## Table of Contents

**Foreword Acknowledgement Preface**

**Outcome Based Education**

**Course Outcomes Abbreviations and Symbols List of Figures Guidelines for Teachers Guidelines for**

**Students Unit 1:** Introductory Mechanics. **Unit 2:** Conservation Principles. **Unit 3:** Dynamics of Particles. **Unit 4:**

Oscillations. **Unit 5:** Rotational Motion. **Unit 6:** Dynamics of a Right Body. **Table of Physical Constants**

**Appendices Annexures References for Further learning CO and PO Attainment Table Index**



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## Authors

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**Prof. A. B. Bhattacharya**, Pro-Vice-Chancellor of JIS University, did his M. Sc. and Ph. D. degree in Physics from the University of Calcutta. He did his Post-doc from the Massachusetts Institute of Technology, USA and subsequently joined in the Department of Physics, Kalyani University. He has published 256 Research papers in high-impact Journals and over 150 proceeding papers in conferences. He has successfully guided 24 scholars for their Ph.D. and has written a large number of invited articles in many Journals. He is the author of 29 textbooks written for engineering and science students and also for general readers from many reputed publishers like Infinity Science Press, Taylor & Francis, etc. International Institute of Success Awareness honored him with their most coveted Institutional and globally reputed “Glory of India Gold Medal” for remarkable contributions to India’s national prestige. He is a Life Fellow of the Institution of Electronics and Telecommunication Engineers. **Dr. Atanu Nag** did his M. Sc. in 2007 and Ph. D. in 2013 from the University of Kalyani. He has published over 50 Journal papers and 5 books for Science & Engineering students. Presently he is the Head and Associate Professor in the Department of Physics, Modern Institute of Engineering & Technology, Hooghly, West Bengal.

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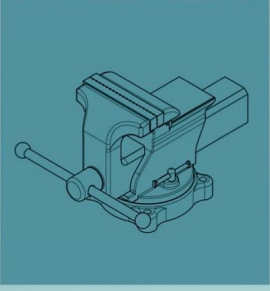
மாதிரி பாடத்திட்டத்தின்படி AICTE - ஆல் பரிந்துரைக்கப்பட்ட பாடப்புத்தகம்

வெளிப்பாடு அடிப்படையிலான கல்வியின்படி வடிவமைக்கப்பட்டது

தேசிய கல்விக் கொள்கை 2020

# பணிமனை / உற்பத்தி முறைகள்

(ஆய்வக கையாட்டுடன்)



வீரண் ணா டி. கெஞ்சக்கனவர்

## Workshop / Manufacturing Practices (with Lab Manual)

<b>Author :</b>	Veerana D.K.
<b>ISBN 13 :</b>	978-93-91505-74-5
<b>ISBN 10 :</b>	93-91505-74-0
<b>E-ISBN 13 :</b>	978-93-91505-74-5
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## Product Description

The textbook on “Workshop/ Manufacturing Practices” is designed to cater the needs of young minds of 21 century. The AICTE model curriculum and National Education Policy has driven a new wave in the technical education. The textbook is designed not only to cater the need of the syllabus but also to look things in a different perspective. The Workshop is the place where the core of learning about different materials, equipment, tools and techniques takes place. Basically the workshop used to prepare the small components by hand tools. Sometimes they may be parts of the large machines or may may be parts for replacement/repairs. In this text book an attempt has been made to connect the conventional tools usage to advanced machine tools usage. The relevant practical examples are quoted to make the readers more comfortable with product and processes. The blooms taxonomy is fallowed in construction of each chapters and exercises. The objective and multiple questions with higher order thinking may help the readers to not only to face the semester end exam even they may help in competitive and other examinations. Salient Features: 1. Manufacturing Methods 2. CNC Machining, Additive manufacturing 3. Fitting operations & power tools 4. Electrical & Electronic 5. Carpentry 6. Plastic moulding, glass cutting 7. Metal casting 8. Welding (arc welding & gas welding), brazing 9. Laboratory experiments and models Appendices References



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**Chapter 2:** CNC Machining, Additive manufacturing, Fitting operations & power tools

**Chapter 3:** Electrical & Electronic

**Chapter 4:** Carpentry, Plastic molding, glass cutting.

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**Part- B: Workshop Practice Laboratory**

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**Veerana D.K.**

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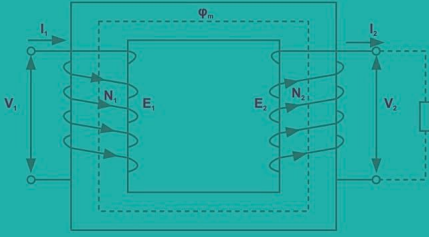
परिणाम आधारित शिक्षणाधी सुसंगत

राष्ट्रीय शैक्षणिक धोरण 2020

## इलेक्ट्रिकल आणि इलेक्ट्रॉनिक

इंजिनिअरिंगची  
मूलभूत तत्त्वे

(प्रयोगशाळा नियमपुस्तिकेसह)

सुसान एस मॅथ्यू  
साजी टी चाकोFundamentals of Electrical  
and Electronics Engineering  
(with Lab Manual)

<b>Author :</b>	Saji T. Chacko
<b>ISBN 13 :</b>	978-93-55380-44-9
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## Product Description

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“Fundamentals of Electrical & Electronics Engineering” 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. Books covers six topics- Overview of Electronics Components and Signals. Overview of Analog Circuits. Overview of Digital Electronics, Electric and magnetic Circuits, A.C. Circuits and Transformer and Machines. Each topic is written in easy and lucid manner. A set of exercises at the end of each units to test the student’s comprehension is provided. Some salient features of the book: 1. Content of the book aligned with the mapping of Course Outcomes, Programs Outcomes and Unit Outcomes. 2. The practical applications of the topics are discussed along with micro projects and activities for generating further curiosity as well as improving problem solving capacity. 3. Book provides lots of vital facts, concepts, principles and other interesting information. 4. QR Codes of video resources and websites to enhance use of ICT for relevant supportive knowledge have been provided. 5. Student and teacher centric course materials included in book in balanced manner. 6. Figures, tables, equations and comparative charts are inserted to improve clarity of the topics. 7. Objective questions and subjective questions are given for practices of students at the end of each unit. 8. Solved and unsolved problems including numerical examples are solved with systematic steps.

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**Susan S. Mathew Saji T. Chacko**

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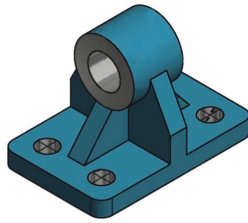
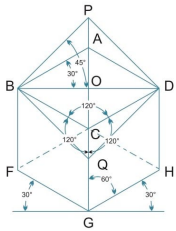
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AICTE PRESCRIBED TEXTBOOK AS PER MODEL CURRICULUM

Aligned with Outcome Based Education

National Education Policy 2020

# ENGINEERING GRAPHICS & DESIGN



## Engineering Graphics & Design

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<b>Country Origin :</b>	India

### Product Description

This textbook "Engineering Graphics and Design" is based on the latest outcome based model curriculum of the AICTE. The book covers complete syllabus catering requirements of all major technical universities and institutes and provides insights into traditional engineering graphics as well as treats of the subject using 2D and 3D design software. It offers technical details, current standard, real world examples and clearly explains theory and technique in highly visual and concise format. The topic covered in this book are arranged into 9 chapters comprising self-explanatory diagrams and solved examples. Salient Features: 1. Introduction of Engineering Drawing. 2. Orthographic Projection. 3. Projection of Solids. 4. Section of Solids and Development of Surfaces. 5. Isometric Projection. 6. Overview of Computer Graphics. 7. CAD Drawing. 8. Solid Modelling. 9. Team Design Project.



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## Author

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**Pradeep Jain** has 15 years of experience in teaching and industry in CAD/CAM. presently he is working as an associate professor in the Department of Mechanical Engineering, Ajay Kumar Garg Engineering College, Ghaziabad. He is providing training and consultancy in CAD/ CAM field.

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