
Gbtu Mechanical Engineering Syllabus 5 Semester

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*Mechanical
Measurements*
Penguin India

Theory of Machines is Engineering. It provides a clear exposition of the basic principles and reinforces the development of problem-solving skills with graded end-of-chapter problems. The book has been a comprehensive textbook for undergraduate students in Mechanical, Production, Aeronautical, Civil, Chemical and Metallurgical

thoroughly updated and revised with fresh examples and exercises to conform to the syllabi requirements of the universities across the country. The book features an introduction and chapter outline for each chapter; it contains 265 multiple choice questions at the end of the book; over 300 end-of-chapter exercises; over 150 solved examples interspersed throughout the text and a glossary for ready reference to the terminology.

Elements of Mechanical Engineering

New Age

International

This book

examines Mult

i-Criteria

Decision

Modelling (MCDM) methodologies and facilitates diverse ways for strategic decision-making in a variety of practical applications.

This book also provides a pragmatic foundation for solving real-life problems in different scenarios of emerging global markets.

Multi-Criteria

Decision

Modelling:

Applicational

Techniques

and Case Studies

depicts the use of sensitivity analysis and modelling and includes case studies to understand and illustrate challenging concepts. It also offers step-by-step comprehensive methodologies for the utilization of MCDM to a variety of situations.

The book deliberates ways for companies to use these methods to their

<p>advantage in order to achieve sustainability. Furthermore, it also presents an overview of the major streams of thought and provides a holistic view of the latest research and development trends in modelling and optimization.</p> <p>FEATURES</p> <p>Offers a stepwise comprehensive methodology for the application of MCDM to a variety of situations</p> <p>Presents an</p>	<p>overview of the major streams of thought present in the MCDM technique</p> <p>Provides a holistic view of the latest research and development trends in the emerging markets in terms of modelling and optimization using MCDM for different industrial sectors</p> <p>Illuminates a practical foundation in order to provide a guide to address the problems of</p>	<p>emerging markets</p> <p>Enlightens the ways for companies to use these methods to their advantage to be able to achieve sustainability</p> <p>This book is a guide for those performing decision analysis for academic purposes as well as for researchers aspiring to expand their knowledge on MCDM problem solving.</p> <p><i>Introduction to Engineering Mathematics Vol-</i></p>
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<p><i>III (GBTU) Firewall</i> Media A well set out textbook to explain the concepts of biomedical electronics and instrumentation. The book covers the complete syllabi of UP Technical University of various subjects concerning Biomedical Electronics and Instrumentation. The text is admirably suited to meet the needs of the students of electronic engineering, electronic instrumentation, electrical engineering, and biomedical</p>	<p>engineering. The book presents succinct coverage of the theory, definitions, formulae and examples. The text is well supported by plenty of diagrams and worked problems. To make the underlying concepts easily comprehensible, the text has been written in question-answer form. Most of the questions have been taken from various university examination papers, specially from UPTU. <u>Soil Mechanics and Foundations</u> Laxmi Publications</p>	<p>This book is primarily written according to the latest syllabus (July 2013) of Mahamaya Technical University, Noida for the third semester students of B.E./B.Tech/B.Arch. The textbook is for the Group B [ME, AE, MT, TT, TE, TC, FT, CE, CH, etc. Branches] of B.Tech III Semester. The Solved Question Paper of Dec. 2012 is included in the body of the text. Industrial Noise Control and Acoustics John Wiley & Sons This is a revised</p>
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edition of the eight years old popular book on operating System Concepts. In Addition to its previous contents, the book details about operating system foe handheld devices like mobile platforms. It also explains about upcoming operating systems with have interface in various Indian language. In addition to solved exercises of individual chapters, the revised version also presents a question bank of most frequently asked questions and their solutions. Value addition has been done in almost all the 14 chapters of the book.

A Textbook Of Engineering Mathematics-I : (As Per The New Syllabus, B.Tech. I Year Of U.P.

Technical University) Firewall Media For B.E./B.Tech. / B.Arch. Students for First Semester of all Engineering Colleges of Maha Maya Technical University, Noida and Gautam Buddha Technical University, Lucknow Machine Component Design Pearson Education India Pratiyogita Darpan (monthly magazine) is India's largest read General Knowledge and Current Affairs Magazine. Pratiyogita Darpan (English monthly magazine) is known for quality content on

General Knowledge and Current Affairs. Topics ranging from national and international news/ issues, personality development, interviews of examination toppers, articles/ write-up on topics like career, economy, history, public administration, geography, polity, social, environment, scientific, legal etc, solved papers of various examinations, Essay and debate contest, Quiz and knowledge testing features are

covered every month in this magazine. A Text Book of Engineering Mathematics I. K. International Pvt Ltd Tribological performance of sustainable composites depend upon external parameters such as interface and environmental temperature, contact pressure and behavior of contact materials at interface and so forth. This book covers sustainable composites and bio- composites in terms of proper selection of

reinforcements, methods to improve the thermal and mechanical properties, techniques for uniform dispersion of the reinforcements and their tribological performance. Also, it details the testing and damage characterization methods of these sustainable composites. Features: 1. Presents fundamental knowledge of sustainable composites, including chemical composition, structural features and fabrication

techniques. 2. Provides an analytical overview of the different types of characterization techniques and tribological methods. 3. Provides an extensive review of properties and their tribological performance for biomedical application. 4. Contains extensive reviews on cutting-edge research on lightweight materials for future applications in a variety of industries and their tribological performance. 5. Provides the

application of sustainable composites in various fields such as aerospace, automobile, medical etc. This book is aimed for Researchers, Professionals and Graduate students of Tribology, Composites, Mechanical Engineering and Materials Engineering. B.Sc. Practical Physics New Age International Compiling strategies from more than 30 years of experience, this book provides numerous case studies that illustrate the implementation of

noise control applications, as well as solutions to common dilemmas encountered in noise reduction processes. It offers methods for predicting the noise generation level of common systems such as fans, motors, c Engineering Mathematics S. Chand Publishing This book covers historical aspects and future directions of mechanical and industrial engineering. Chapters of this book include applied mechanics and design, tribology, machining, additive manufacturing and management of

industrial technologies. Mechanical Engineering (O.T.) CRC Press Engineering Mathematics (Conventional and Objective Type) completely covers the subject of Engineering Mathematics for engineering students (as per AICTE) as well as engineering entrance exams such as GATE, IES, IAS and Engineering Services Exams. Though a first edition, the book is enriched by 50 years of Academics and professional experience of the Author(s) and the experience of more

<p>than 85 published books.</p> <p>Theory of Machines New Age International</p> <p>This text covers the basic principles of turbomachinery in a clear, practical presentation that ties theory logically and rigorously with the design and application part of turbomachines such as centrifugal compressors, centrifugal pumps, axial flow compressors, steam and gas turbines, and hydraulic turbines. The contents of the book have been designed to meet the requirements of undergraduate and postgraduate students of</p>	<p>mechanical engineering. The book helps students develop an intuitive understanding of fluid machines by honing them through a systematic problem-solving methodology. Key Features Simple and elegant presentation to enable students to grasp the essentials of the subject easily and quickly Focuses on problem-solving techniques Provides an excellent selection of more than 300 graded solved examples to foster understanding of the theory Gives over 100 chapter-end problems Provides a succinct summary of equations at the end of each chapter</p>	<p>Provides solutions to several question papers at the end of the book.</p> <p>Manufacturing Processes (As per the new Syllabus, B.Tech. I year of U.P. Technical University) S. Chand Publishing</p> <p>Introduces the basic concepts of robot manipulation--the fundamental kinematic and dynamic analysis of manipulator arms, and the key techniques for trajectory control and compliant motion control. Material is supported with abundant examples adapted from successful industrial practice or advanced research topics. Includes carefully devised conceptual diagrams, discussion</p>
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of current research topics with references to the latest publications, and end-of-book problem sets. Appendixes. Bibliography. Theory Of Automata, Formal Languages And Computation (As Per Uptu Syllabus) New Age International This Book Is Aimed At Providing An Introduction To The Basic Models Of Computability To The Undergraduate Students. This Book Is Devoted To Finite Automata And Their Properties. Pushdown Automata

Provides A Class Of Models And Enables The Analysis Of Context-Free Languages. Turing Machines Have Been Introduced And The Book Discusses Computability And Decidability. A Number Of Problems With Solutions Have Been Provided For Each Chapter. A Lot Of Exercises Have Been Given With Hints/Answers To Most Of These Tutorial Problems. Microwave Engineering New Age International This Book Has Been Written

Strictly According To The Latest Syllabus Prescribed By U.P. Technical University, Lucknow For Undergraduate Students Of Electronics & Communication Engineering. Its First Chapter Discusses The Microwave Propagation Through Waveguides. The Second Chapter Describes Microwave Cavity Resonators. Third Chapter Deals With Microwave Components. Chapter Four Explains Various Microwave

<p>Measurements. The Authors Have Chapter Five Discusses Limitations Of Conventional Active Devices At Microwave Frequencies And Introduces Various Microwave Tubes And Their Classification. Chapter Six Is Divided Into Three 6A, 6B & 6C And Discusses O- Type (6A, 6B) And M-Type (6C) Tubes. Microwave Semiconductor Devices Have Been Discussed In Chapters Seven To Nine. Microwaves And Their Applications Are Described In An Introduction.</p>	<p>Taken Special Care In Keeping A Balance Between Mathematical And Physical Approach. Large Number Of Illustrative Diagrams Have Been Incorporated. A Good Number Of Solved Problems, Picture From University Examination Papers, Have Been Included For Reinforcing The Key Concepts. <u>Pratiyogita</u> <u>Darpan</u> Firewall Media Modern Manufacturing Technology: Spotlight on</p>	<p>Future summarizes the emergence and development of modern manufacturing techniques (MMTs) with a focus on metallic and advanced material-based additive manufacturing technologies and their potential applications. Further, it explores advanced machining techniques for production of novel nanomaterials. The book also covers modern sophisticated techniques for the fabrication of ultrafine electronic</p>
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devices such as micro-electromechanical systems (MEMS), nano-electromechanical systems (NEMS), semiconductors, and optical systems. A dedicated chapter on manufacturing technology for Industry 4.0 is included. Features: Describes the background of manufacturing techniques in brief including the advent of and introduction to MMTs Reviews various types of MMTs established in recent years and their accelerated growth and

development innovation-driven applications
Overviews the physical and chemical techniques used for nanomaterials production
Explores the fabrication mechanisms of MEMS, NEMS, semiconductors and optical devices
Provides a conceptual overview of additive manufacturing technologies
This book is geared to undergraduate and postgraduate students and professionals in mechanical and manufacturing

engineering, and the manufacturing industry.
Heat and Mass Transfer New Age International
This Book Presents A Systematic Account Of The Concepts And Principles Of Engineering Thermodynamics And The Concepts And Practices Of Thermal Engineering. The Book Covers Basic Course Of Engineering Thermodynamics And Also Deals With The Advanced Course Of Thermal Engineering. This Book Will Meet The Requirements Of The Undergraduate

Students Of Engineering And Technology Undertaking The Compulsory Course Of Engineering Thermodynamics. The Subject Matter Of Book Is Sufficient For The Students Of Mechanical Engineering/Industrial-Production Engineering, Aeronautical Engineering, Undertaking Advanced Courses In The Name Of Thermal Engineering/Heat Engineering/ Applied Thermodynamics Etc. Presentation Of The Subject Matter Has Been Made In Very Simple And Understandable

Language. The Book Is Written In Si System Of Units And Each Chapter Has Been Provided With Sufficient Number Of Typical Numerical Problems Of Solved And Unsolved Questions With Answers. Basics of Mechanical Engineering Sarup & Sons Manufacturing Processes (As Per the UPTU New Syllabus)I. K. International Pvt Ltd Robot Analysis and Control CRC Press Worksheets are included to act as observation book for taking readings. Tips on practical application of the tools and instruments

are given Adages found in each page are unique for motivation and personality development of the students Illustrations of the tools used in various sections of workshop are provided Fundamentals Of Turbomachinery CRC Press About the Book: Manufacturing process has become important in the industrial environment to produce products for the service of mankind. The basic need is to provide theoretical and practical knowledge of manufacturing processes to all the

engineering students. This book covers most of the syllabus of manufacturing processes for engineering classes prescribed by UPTU. At the end of each chapter, a number of questions have been provided for testing the students understanding about the concept of the subject. The whole text has been organized in 10 chapters. The first chapter presents the br.