

Epub free Mit mechanical engineering syllabus [PDF]

for students following the 2010 btec national programmes in mechanical engineering manufacturing engineering and operations maintenance engineering this textbook covers the most popular specialist units of the mechanical engineering manufacturing engineering and operations and maintenance engineering pathways of the new 2010 btec national engineering syllabus it features contributions from expert lecturers and two new downloadable chapters principles and applications of fluid mechanics and principles and applications of thermodynamics the subject mechanical engineering drawing has been introduced in 3rd semester for mechanical engineering groups as per model syllabus issued by the all india council for technical education with effect from 2011 for diploma level of engineering courses in india the conventions used in this book are as per bis sp 46 1988 this book is written elaborately using simple words to realize every chapter even without help of a teacher objects are shown in 3d model which helps the students about the object during drawing assembled drawings are shown in half and full sections including offset section to visualize the interior of the object it covers all the features of the entire syllabus of mechanical engineering drawing key features convention used as per bis sp 46 1988 all the problems are explained in details example on every topic with drawings assembly drawings with sectional views 3d model of all components all drawings are made using autocad software this textbook for the first year students of all branches of rajiv gandhi proudyogiki vishwavidyalaya rgpv bhopal m p it has been strictly according to the new syllabus of rgpv the subject matter has been explained clearly and precisely in the simplest way salient features are 250 solved examples a number of exercises at the end of every chapter multi choice the book strictly complies with the new syllabus of gujrat technological university ahmedabad for b e first year of all braches of engineering the subject matter is presented in a graded stepwise easytofollow style each chapter includes muliplechoice questions review questions and exercises for easy recapitulation revised in line with the new engineering syllabus in particular the section on heat transfer has been expanded this book is the systematic presentation of the concepts and principles essential for understanding engineering thermodynamics engineering mechanics and strength of materials textbook covers the complete syllabus of compulsory subject of mechanical engineering of uttar pradesh technical university lucknow in particular and other universities of the country in general for undergraduate students of engineering and technology basic concepts and laws of thermodynamics have been clearly explained using a large number of solved problems entropy properties of pure substances thermodynamic cycles and ic engines are described in detail steam tables andmollier diagram is included principles of engineering mechanics have been discussed in detail and supported by sufficient number of solved and unsolved problems simple and compound stresses are discussed at length bending stresses in beam and torsion have been covered in detail large number of solved and unsolved problems with answers are given at the end of each chapter si units are used throughout the book this book has been written for the medical pharmacy nursing me m tech be b tech students of all university with latest syllabus for ece eee cse it mechanical bio medical bio tech bca mca and all b sc department students the basic aim of this book is to provide a basic knowledge in fundamentals of mechanical engineering fundamentals of mechanical engineering syllabus students of degree diploma amie courses and a useful reference for these preparing for competitive examinations all the concepts are explained in a simple clear and complete manner to achieve progressive learning this book is divided into five chapters each chapter is well supported with the necessary illustration practical examples special features simple language point wise descriptions in easy steps chapter organization in exact agreement with sequence of syllabus simple line diagrams concepts supported by ample number of solved examples and illustrations pedagogy in tune with examination pattern of rgtu large number of practice problems model question papers about the book this book is designed to suit the core engineering course on basic mechanical engineering offered to first year students of all engineering colleges in madhya pradesh this book meets the syllabus requirements of basic mechanical engineering and has been written for the first year students all branches of be degree course of rgpv bhopal affiliated engineering institutes a number of illustrations have been used to explain and clarify the subject matter numerous solved examples are presented to make understanding the content of the book easy objective type questions have been provided at the end of each chapter to help the students to quickly review the concepts elements of mechanical engineering occupy a prominent position of understanding over view of mechanical engineering it consists of three units which are basic principals of thermodynamics basic manufacturing process simple stress and strain throughout the book s i units have been followed basic principle has been explained in detail by using solved problems several unsolved problems tutorial sheets objective questions have been provided at the end of each chapter for practice this book is intended to serve as a textbook for the course of b tech 1st and 2nd semester for the students

of amity university who find difficulties for finding syllabus of amity university in a single book and is written in si system each chapter of the book is written in a simple and logical way and explaining theory with the help of examples now in its fourth edition mechanical engineering has been revised to be in line with the technical qualifications of the new engineering apprenticeship standards at level 3 in addition four new chapters are included that cover static and dynamic engineering systems fluid systems and additive manufacturing the text covers eight units of the btec l3 advanced manufacturing engineering development technical knowledge qualification as well as some content in the btec national engineering syllabus and btec l3 aerospace and aviation engineering specialist qualifications it also covers some of the content in the eal l3 advanced manufacturing engineering development technical knowledge qualification to enhance learning mathematical theory is backed up with numerous examples to work through there are also activities for students to complete out of the classroom that help put the theory into context test your knowledge quizzes throughout the text enable students to test their understanding while end of unit review questions are helpful for exam revision and course work this book is ideal for students undertaking level 3 courses in engineering although students undertaking level 4 engineering courses will also find the content of the book useful to their studies alan darbyshire is a retired further education lecturer and experienced textbook author for intermediate gnvq and avce he drafted several of the mechanical engineering units for the btec national specifications charles gibson completed an aeronautical mechanical engineering apprenticeship and then spent 16 years in the royal navy maintaining military helicopters before retiring from the military in 2008 since then he has worked in further education as the head of aeronautical engineering at city of bristol college where he also taught on several programmes including btecs in aeronautical engineering and foundation degrees in 2013 he transferred to yeovil college where he continues to teach on engineering programmes from level 2 to level 5 he has also been involved in the writing of engineering technical knowledge qualifications for several engineering apprenticeship standards this book is tailor made as per the syllabus of engineering mechanics offered in the first year of undergraduate students of engineering the book covers both statics and dynamics and provides the students with a clear and thorough presentation of the theory as well as the applications the diagrams and problems in the book familiarize students with actual situations encountered in engineering get the kindle version free along with the paperback version this book cover the syllabus for the engineering part of the basic civil and mechanical engineering course it will helpful for the engineering student to gain the basic knowledge in all aspects this book is presented in a simple and comprehensive manner diagrams are also included in the chapters to explain the concepts this textbook has been designed to provide students with a strong foundation in both subjects this book has been written in a simple and comprehensive manner to enable students to derive maximum understanding throughout the text an attempt has been made to present the subject matter in a simple and precious manner also the question bank has been included at the end of the book the 1st edition of book entitled design of machine elements for iird year diploma semester vi in diploma in mechanical engineering group as per the syllabus prescribed by sbte we have observed the students facing extreme difficulties in understanding the basic principles and fundamental concepts without adequate solved problems along with the text to meet this basic requirement of students sincere efforts have been made to present the subject matter with frequent use of figures and lots of numerical examples basic electrical engineering has been written as a core course for all engineering students viz electronics and communication engineering computer engineering civil engineering mechanical engineering etc since this course will normally be offered at the first year level of engineering the author has made modest effort to give in a concise form various features of basic electrical engineering using simple language and through solved examples avoiding the rigorous of mathematics salient features steady state analysis of a c circuits explained network theorems explained using typical examples analysis of 3 phase circuits and measurement of power in these circuits explained measuring instruments like ammeter voltmeter wattmeter and energy meter described various electrical machines like transformers d c machines single phase and three phase induction motors synchronous machines servomotors have been described a brief view of power system including conventional and nonconventional services of electrical energy is given numerous solved examples and practice problems for thorough grasp of the subject presented a large number of multiple choice questions with answers given 1 the book is prepared for the preparation for the gate entrance 2 thepractice package deals with mechanical engineering 3 entire syllabus is divided into chapters 4 solved papers are given from 2021 to 2000 understand the pattern and build concept 5 3 mock tests are given for self practice 6 extensive coverage of mathematics and general aptitude are given 7 questions in the chapters are divided according to marks requirements 1 marks and 2 marks 8 this book uses well detailed and authentic answers get the complete assistance with gate chapterwise solved paper series that has been developed for aspirants who are going to appear for the upcoming gate entrances the book chapterwise previous years solved papers 2021 2000 gate mechanical engineering has been prepared under the great observation that help aspirants in cracking the gate exams as the name of the book suggests it covers

detailed solutions of every question in a chapterwise manner each chapter provides a detailed analysis of previous years exam pattern chapterwise solutions are given engineering mathematics and general aptitude 3 mock tests are given for self practice to get well versed with the exam pattern level of questions asked conceptual clarity and greater focus on the preparation this book proves to be a must have resource in the solving and practicing previous years gate papers table of content solved papers 2021 2012 engineering mathematics engineering mechanics strength of material strength of material theory of machine machine design fluid mechanics heat and mass transfer thermodynamics refrigeration and air conditioning power engineering production engineering industrial engineering general aptitude crack papers 1 3 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 u p t u 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 manufacturing processes is meant for the students of b tech in all branches of engineering namely mechanical electronics computer information technology electrical and civil this book aims to fulfill specific need effective from 2008 09 sessions the last leg of all technical competitive exams including gate ese and psus require brushing of concepts and quick revisions however with bulky books the same is not possible you can and probably have already missed key formulae and ended up with not so good results to make your life easy gkp has come up with handbook series for mechanical engineering civil engineering electrical engineering computer science engineering and electronics and communications engineering our handbook for mechanical engineering serves as a quick reference guide to brush up key concepts it also helps you revise the entire syllabus quickly in limited time mechanical engineering is a sought after branch in gate upsc ese major psus and several students write its paper annually we hope that the book is immensely useful for students aiming to clear competitive examinations and for students looking for exam preparation material to revise various concepts key features of the book include a last minute prep aspects b formulae with conceptual clarity c definitions and equations with explanatory notes effective from 2008 09 session u p t u has introduced the subject of manufacturing processes for first year engineering students of all streams this textbook covers the entire course material in a distilled form basic mechanical engineering curriculum focuses on what mechanical engineering is all about design analysis materials and manufacture of systems to that extent all mathematics science and engineering courses relate their contents to analysis design development and manufacturing mechanical engineering explains about the knowledge and understanding of the concepts in the mechanical engineering discipline this book focuses on basic engineering concepts which will help student to perform well in the engineering field the following topics are covered in this subject design fundamentals engineering materials manufacturing processes machine tools thermal engineering theory of machines and machine design power absorbing devices steam boilers compressors engines and turbines refrigeration and air conditioning key features course learning objectives all topics explained in simple and lucid manner sufficient theory questions and numerical problems for practice this book has been prepared by a group of faculties who are highly experienced in training gate candidates and are also subject matter experts as a result this book would serve as a one stop solution for any gate aspirant to crack the examination the book is divided into three parts covering 1 general aptitude 2 engineering mathematics and 3 mechanical engineering coverage is as per the syllabus prescribed for gate and topics are handled in a comprehensive manner beginning from the basics and progressing in a step by step manner supported by ample number of solved and unsolved problems extra care has been taken to present the content in a modular and systematic manner to facilitate easy understanding of all topics this book addresses various aspects of civil and mechanical engineering field we have included numerous neatly drawn figures and problems with solutions for the better understanding of the subject the book is organized in six modules as per the syllabus of the first second semester b tech course under apj abdul kalam technological university kerala in this book john bird and carl ross introduce mechanical principles and technology through examples and applications enabling students to develop a sound understanding of the principles needed by professional engineers and technicians no previous background in engineering is assumed and theoretical concepts are supported by over 600 problems and worked examples this completely new text is designed to match a wide range of pre degree courses and provide an accessible introduction for undergraduates with no previous background in engineering studies the authors have ensured syllabus match for the leading uk courses at this level avce optional units mechanical engineering principles and further mechanical engineering principles and the new btec national unit mechanical principles mechanical engineering principles offers a student friendly introduction to core engineering topics that does not assume any previous background in engineering studies and as such can act as a core textbook for several engineering courses bird and ross introduce mechanical principles and technology through examples and applications rather than theory this approach

enables students to develop a sound understanding of the engineering principles and their use in practice theoretical concepts are supported by over 600 problems and 400 worked answers the new edition will match up to the latest btec national specifications and can also be used on mechanical engineering courses from levels 2 to 4 the present book on elements of mechanical engineering is meant for the engineering students of all branches at their first year level it covers the new syllabus of panjab technical university jalandhar however it shall be useful to students of other universities also the book covers the basic principles of thermodynamics zeroth law of thermodynamics and the concept of temperature in the first chapter this book has been written specially to meet the exhaustive requirements of the subject elements of mechanical engineering of b e 1st year examination of k u kurukshetra and m d u rohtak and other courses of b e b tech b sc engg u p s c a m i e salient features the presentation of the subject matter is very systematic and the language of text is in a lucid direct and easy to understand manner the book provides a comprehensive treatment of the subject matter under wide range of topics mentioned in the syllabus common to the above mentioned universities including a large number of solved examples to support the text wherever required a large number of solved examples properly graded have been added in various chapters to enable the students to attempt different types of questions in the examination without any difficulty at the end of each chapter highlights objective type questions theoretical questions and unsolved examples have been added to make the book a complete unit in all respects this book spreads into five chapters covering the various aspects on numerical methods for engineers this book cover s the syllabus of anna university b e courses in mechanical engineering automobile engineering civil engineering production engineering aeronautical engineering and electrical and electronics engineering

Mechanical Engineering Syllabus

1916*

for students following the 2010 btec national programmes in mechanical engineering manufacturing engineering and operations maintenance engineering this textbook covers the most popular specialist units of the mechanical engineering manufacturing engineering and operations and maintenance engineering pathways of the new 2010 btec national engineering syllabus it features contributions from expert lecturers and two new downloadable chapters principles and applications of fluid mechanics and principles and applications of thermodynamics

Mechanical Engineering

1905

the subject mechanical engineering drawing has been introduced in 3rd semester for mechanical engineering groups as per model syllabus issued by the all india council for technical education with effect from 2011 for diploma level of engineering courses in india the conventions used in this book are as per bis sp 46 1988 this book is written elaborately using simple words to realize every chapter even without help of a teacher objects are shown in 3d model which helps the students about the object during drawing assembled drawings are shown in half and full sections including offset section to visualize the interior of the object it covers all the features of the entire syllabus of mechanical engineering drawing key features convention used as per bis sp 46 1988 all the problems are explained in details example on every topic with drawings assembly drawings with sectional views 3d model of all components all drawings are made using autocad software

Mechanical Engineering

2010

this textbook for the first year students of all branches of rajiv gandhi proudyogiki vishwavidyalaya rgpv bhopal m p it has been strictly according to the new syllabus of rgpv the subject matter has been explained clearly and precisely in the simplest way salient features are 250 solved examples a number of exercises at the end of every chapter multi choice

Mechanical Engineering Drawing

1970

the book strictly complies with the new syllabus of gujrat technological university ahmedabad for b e first year of all braches of engineering the subject matter is presented in a graded stepwise easytofollow style each chapter includes muliplechoice questions review questions and exercises for easy recapitulation

Syllabus for Fellowship Diploma in Mechanical Engineering

2009

revised in line with the new engineering syllabus in particular the section on heat transfer has been expanded

Basic Mechanical Engineering

2010

this book is the systematic presentation of the concepts and principles essential for understanding engineering thermodynamics engineering mechanics and strength of materials textbook covers the complete syllabus of compulsory subject of mechanical engineering of uttar pradesh technical university lucknow in particular and other universities of the country in general for undergraduate students of engineering and technology basic concepts and laws of thermodynamics have been clearly explained using a large number of solved problems entropy properties of pure substances thermodynamic cycles and ic engines are described in detail steam tables and mollier diagram is included principles of engineering mechanics have been discussed in detail and supported by sufficient number of solved and unsolved problems simple and compound stresses are discussed at length bending stresses in beam and torsion have been covered in detail large number of solved and unsolved problems with answers are given at the end of each chapter si units are used throughout the book

Elements of Mechanical Engineering(GTU)

2000

this book has been written for the medical pharmacy nursing me m tech be b tech students of all university with latest syllabus for ece eee cse it mechanical bio medical bio tech bca mca and all b sc department students the basic aim of this book is to provide a basic knowledge in fundamentals of mechanical engineering fundamentals of mechanical engineering syllabus students of degree diploma amie courses and a useful reference for these preparing for competitive examinations all the concepts are explained in a simple clear and complete manner to achieve progressive learning this book is divided into five chapters each chapter is well supported with the necessary illustration practical examples

Mechanical Technology

2006

special features simple language point wise descriptions in easy steps chapter organization in exact agreement with sequence of syllabus simple line diagrams concepts supported by ample number of solved examples and illustrations pedagogy in tune with examination pattern of rgvtu large number of practice problems model question papers about the book this book is designed to suit the core engineering course on basic mechanical engineering offered to first year students of all engineering colleges in madhya pradesh this book meets the syllabus requirements of basic mechanical engineering and has been written for the first year students all branches of be degree course of rgpv bhopal affiliated engineering institutes a number of illustrations have been used to explain and clarify the subject matter

numerous solved examples are presented to make understanding the content of the book easy objective type questions have been provided at the end of each chapter to help the students to quickly review the concepts

Introduction To Mechanical Engineering: Thermodynamics, Mechanics And Strength Of Material

2020-08-06

elements of mechanical engineering occupy a prominent position of understanding over view of mechanical engineering it consists of three units which are basic principals of thermodynamics basic manufacturing process simple stress and strain throughout the book s i units have been followed basic principle has been explained in detail by using solved problems several unsolved problems tutorial sheets objective questions have been provided at the end of each chapter for practice this book is intended to serve as a textbook for the course of b tech 1st and 2nd semester for the students of amity university who find difficulties for finding syllabus of amity university in a single book and is written in si system each chapter of the book is written in a simple and logical way and explaining theory with the help of examples

Theory of Machines: As per the fifth-semester Mechanical engineering syllabus of the Gujarat Technological University

2008

now in its fourth edition mechanical engineering has been revised to be in line with the technical qualifications of the new engineering apprenticeship standards at level 3 in addition four new chapters are included that cover static and dynamic engineering systems fluid systems and additive manufacturing the text covers eight units of the btec l3 advanced manufacturing engineering development technical knowledge qualification as well as some content in the btec national engineering syllabus and btec l3 aerospace and aviation engineering specialist qualifications it also covers some of the content in the eal l3 advanced manufacturing engineering development technical knowledge qualification to enhance learning mathematical theory is backed up with numerous examples to work through there are also activities for students to complete out of the classroom that help put the theory into context test your knowledge quizzes throughout the text enable students to test their understanding while end of unit review questions are helpful for exam revision and course work this book is ideal for students undertaking level 3 courses in engineering although students undertaking level 4 engineering courses will also find the content of the book useful to their studies alan darbyshire is a retired further education lecturer and experienced textbook author for intermediate gnvq and avce he drafted several of the mechanical engineering units for the btec national specifications charles gibson completed an aeronautical mechanical engineering apprenticeship and then spent 16 years in the royal navy maintaining military helicopters before retiring from the military in 2008 since then he has worked in further education as the head of aeronautical engineering at city of bristol college where he also taught on several programmes including btecs in aeronautical engineering and foundation degrees in 2013 he transferred to yeovil college where he continues to teach on engineering programmes from level 2 to level 5 he has also been involved in the writing of engineering technical knowledge qualifications for several engineering apprenticeship standards

Fundamentals of Mechanical Engineering

2006

this book is tailor made as per the syllabus of engineering mechanics offered in the first year of undergraduate students of engineering the book covers both statics and dynamics and provides the students with a clear and thorough presentation of the theory as well as the applications the diagrams and problems in the book familiarize students with actual situations encountered in engineering

Basic Mechanical Engineering

2008-08-01

get the kindle version free along with the paperback version this book cover the syllabus for the engineering part of the basic civil and mechanical engineering course it will helpful for the engineering student to gain the basic knowledge in all aspects this book is presented in a simple and comprehensive manner diagrams are also included in the chapters to explain the concepts this textbook has been designed to provide students with a strong foundation in both subjects this book has been written in a simple and comprehensive manner to enable students to derive maximum understanding throughout the text an attempt has been made to present the subject matter in a simple and precious manner also the question bank has been included at the end of the book

Basic Mechanical Engineering

2022-07-13

the 1st edition of book entitled design of machine elements for iiiird year diploma semester vi in diploma in mechanical engineering group as per the syllabus prescribed by sbte we have observed the students facing extreme difficulties in understanding the basic principles and fundamental concepts without adequate solved problems along with the text to meet this basic requirement of students sincere efforts have been made to present the subject matter with frequent use of figures and lots of numerical examples

Elements of Mechanical Engineering

2010

basic electrical engineering has been written as a core course for all engineering students viz electronics and communication engineering computer engineering civil engineering mechanical engineering etc since this course will normally be offered at the first year level of engineering the author has made modest effort to give in a concise form various features of basic electrical engineering using simple language and through solved examples avoiding the rigorous of mathematics salient features steady state analysis of a c circuits explained network theorems explained using typical examples analysis of 3 phase circuits and measurement of power in these circuits explained measuring instruments like ammeter voltmeter wattmeter and energy meter described various electrical machines like transformers d c machines single phase and three phase induction motors synchronous machines servomotors have been described a brief view of power system including

conventional and nonconventional services of electrical energy is given numerous solved examples and practice problems for thorough grasp of the subject presented a large number of multiple choice questions with answers given

Manufacturing Processes - II: As per the fifth-semester mechanical engineering syllabus of the Gujarat Technological University

2019-08-31

1 the book is prepared for the preparation for the gate entrance 2 the practice package deals with mechanical engineering 3 entire syllabus is divided into chapters 4 solved papers are given from 2021 to 2000 understand the pattern and build concept 5 3 mock tests are given for self practice 6 extensive coverage of mathematics and general aptitude are given 7 questions in the chapters are divided according to marks requirements 1 marks and 2 marks 8 this book uses well detailed and authentic answers get the complete assistance with gate chapterwise solved paper series that has been developed for aspirants who are going to appear for the upcoming gate entrances the book chapterwise previous years solved papers 2021 2000 gate mechanical engineering has been prepared under the great observation that help aspirants in cracking the gate exams as the name of the book suggests it covers detailed solutions of every question in a chapterwise manner each chapter provides a detailed analysis of previous years exam pattern chapterwise solutions are given engineering mathematics and general aptitude 3 mock tests are given for self practice to get well versed with the exam pattern level of questions asked conceptual clarity and greater focus on the preparation this book proves to be a must have resource in the solving and practicing previous years gate papers table of content solved papers 2021 2012 engineering mathematics engineering mechanics strength of material strength of material theory of machine machine design fluid mechanics heat and mass transfer thermodynamics refrigeration and air conditioning power engineering production engineering industrial engineering general aptitude crack papers 1 3

Mechanical Engineering

2008

Engineering Mechanics

2006

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

Basic of Civil and Mechanical Engineering

2020

manufacturing processes is meant for the students of b tech in all branches of engineering namely mechanical electronics computer information technology electrical and civil this book aims to fulfill specific need effective from 2008 09 sessions

Engineering Mechanics : (As Per The New Syllabus, B.Tech. 1 Year Of U.P. Technical University)

2006

the last leg of all technical competitive exams including gate ese and psus require brushing of concepts and quick revisions however with bulky books the same is not possible you can and probably have already missed key formulae and ended up with not so good results to make your life easy gkp has come up with handbook series for mechanical engineering civil engineering electrical engineering computer science engineering and electronics and communications engineering our handbook for mechanical engineering serves as a quick reference guide to brush up key concepts it also helps you revise the entire syllabus quickly in limited time mechanical engineering is a sought after branch in gate upsc ese major psus and several students write its paper annually we hope that the book is immensely useful for students aiming to clear competitive examinations and for students looking for exam preparation material to revise various concepts key features of the book include a last minute prep aspects b formulae with conceptual clarity c definitions and equations with explanatory notes

ESP

2021-06-21

effective from 2008 09 session u p t u has introduced the subject of manufacturing processes for first year engineering students of all streams this textbook covers the entire course material in a distilled form

DESIGN OF MACHINE ELEMENTS (Subject Code MEC 604)

2022-11-22

basic mechanical engineering curriculum focuses on what mechanical engineering is all about design analysis materials and manufacture of systems to that extent all mathematics science and engineering courses relate their contents to analysis design development and manufacturing mechanical engineering explains about the knowledge and understanding of the concepts in the mechanical engineering discipline this book focuses on basic engineering concepts which will help student to perform well in the engineering field the following topics are covered in this subject design fundamentals engineering materials manufacturing processes machine tools thermal engineering theory of machines and machine design power absorbing devices steam boilers compressors engines and turbines refrigeration and air conditioning key features course learning objectives all topics explained in simple and lucid manner sufficient theory questions and numerical problems for practice

Electrical Engineering (as Per Uptu Syllabus)

2009

this book has been prepared by a group of faculties who are highly experienced in training gate candidates and are also subject matter experts as a result this book would serve as a one stop solution for any gate aspirant to crack the examination the book is divided into three parts covering 1 general aptitude 2 engineering mathematics and 3 mechanical engineering coverage is as per the syllabus prescribed for gate and topics are handled in a comprehensive manner beginning from the basics and progressing in a step by step manner supported by ample number of solved and unsolved problems extra care has been taken to present the content in a modular and systematic manner to facilitate easy understanding of all topics

Mechanical Engineering Solved Papers GATE 2022

2010-10

this book addresses various aspects of civil and mechanical engineering field we have included numerous neatly drawn figures and problems with solutions for the better understanding of the subject the book is organized in six modules as per the syllabus of the first second semester b tech course under apj abdul kalam technological university kerala

ADVANCED IC ENGINES

2014

in this book john bird and carl ross introduce mechanical principles and technology through examples and applications enabling students to develop a sound understanding of the principles needed by professional engineers and technicians no previous background in engineering is assumed and theoretical concepts are supported by over 600 problems and worked examples this completely new text is designed to match a wide range of pre degree courses and provide an accessible introduction for undergraduates with no previous background in engineering studies the authors have ensured syllabus match for the leading uk courses at this level avce optional units mechanical engineering principles and further mechanical engineering principles and the new btec national unit mechanical principles

Manufacturing Processes (As per the new Syllabus, B.Tech. I year of U.P. Technical University)

2019-11-18

mechanical engineering principles offers a student friendly introduction to core engineering topics that does not assume any previous background in engineering studies and as such can act as a core textbook for several engineering courses bird and ross introduce mechanical principles and technology through examples and applications rather than theory this approach enables students to develop a sound understanding of the engineering principles and their use in practice theoretical concepts are supported by over 600 problems and 400 worked answers the new edition will match up to the latest btec national specifications and can also be used on mechanical engineering courses from levels 2 to 4

Manufacturing Processes (As Per the UPTU New Syllabus)

2012-09

the present book on elements of mechanical engineering is meant for the engineering students of all branches at their first year level it covers the new syllabus of panjab technical university jalandhar however it shall be useful to students of other universities also the book covers the basic principles of thermodynamics zeroth law of thermodynamics and the concept of temperature in the first chapter

Engineering Mechanics

2005

this book has been written specially to meet the exhaustive requirements of the subject elements of mechanical engineering of b e 1st year examination of k u kurukshetra and m d u rohtak and other courses of b e b tech b sc engg u p s c a m i e salient features the presentation of the subject matter is very systematic and the language of text is in a lucid direct and easy to understand manner the book provides a comprehensive treatment of the subject matter under wide range of topics mentioned in the syllabus common to the above mentioned universities including a large number of solved examples to support the text wherever required a large number of solved examples properly graded have been added in various chapters to enable the students to attempt different types of questions in the examination without any difficulty at the end of each chapter highlights objective type questions theoretical questions and unsolved examples have been added to make the book a complete unit in all respects

Handbook of Mechanical Engineering

2013

this book spreads into five chapters covering the various aspects on numerical methods for engineers this book covers the syllabus of anna university b e courses in mechanical engineering automobile engineering civil engineering production engineering aeronautical engineering and electrical and electronics engineering

Manufacturing Processes

2019-08-01

Geometrical and Mechanical Engineering Drawing Syllabus

2002-02-04

Basic Mechanical Engineering

2012

GATE Mechanical Engineering

2002

BASIC CIVIL AND MECHANICAL ENGINEERING.

2009

Basics of Civil and Mechanical Engineering

2005-08-01

Mechanical Engineering Principles

2019-01-14

Mechanical Engineering Principles

Geometrical and Mechanical Engineering Drawing Syllabus

Elements of Mechanical.Engineering (PTU)

Elements of Mechanical Engineering

NUMERICAL METHODS FOR ENGINEERS

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