

Syllabus Of Gate For Mechanical Engineering

GATE Mechanical Engineering
Mathematics for Economists
A Textbook of Fluid Mechanics
GATE 2021 : Electrical Engineering (12 Mock Tests + 5 Previous Years' Solved Papers)
GATE Mechanical Engineering 2018
Radar RF Circuit Design
Production Technology
Internal Combustion Engines
Building Technology (For Kerala University)
Refrigeration and Air Conditioning
A Modern Approach to Verbal & Non Verbal Reasoning
Mechanical Engineering for GATE (Graduate Aptitude Test in Engineering)
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Principles of Microeconomics: A New-Look Textbook of Microeconomic Theory, 22e
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Higher engineering mathematics
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GATE MECHANICAL ENGINEERING, Second Edition
Mechanical Engineering Guide for GATE/ PSUs
Mechanical Engineering (O.T.)
GATE 2020 Mechanical Engineering Guide with 10 Practice Sets (6 in Book + 4 Online) 7th edition
Engineering Thermodynamics
Engineering Thermodynamics
Theory of Machines
Fundamentals of Engineering Heat and Mass Transfer
The Theory of Machines
Design of Machine Elements
A Textbook of Strength of Materials
GATE Civil Engineering 2019
Programmed Statistics (Question-Answers)

GATE Mechanical Engineering

This text contains the mathematical material necessary as background for the topics covered in advanced microeconomics courses. It focuses on two key components of microeconomics - optimization subject to constraints and the development of comparative statistics. Assuming familiarity with calculus of one variable and basic linear algebra, the text allows more extensive coverage of additional topics like constrained optimization, the chain rule, Taylor's theorem, line integrals and dynamic programming. It contains numerous examples that illustrate economics and mathematical situations, many with complex solutions.

Mathematics for Economists

Mechanical Engineering for GATE/PSUs exam contains exhaustive theory, past year questions and practice problems. The book has been written as per the latest format as issued for latest GATE exam. The book covers Numerical Answer Type Questions which have been added in the GATE format. To the point but exhaustive theory covering each and every topic in the latest GATE syllabus.

A Textbook of Fluid Mechanics

GATE 2021 : Electrical Engineering (12 Mock Tests + 5 Previous Years' Solved Papers)

GATE Mechanical Engineering 2018

GATE Electrical Engineering is a three-hour long test that measures the candidature of participating electrical engineering graduates for taking their postgraduate engineering studies. Also, these candidates take GATE Electrical Engineering for acquiring officer level posts in various Government undertakings and renowned private businesses. Each year, several millions of electrical engineers take GATE Electrical Engineering while only a few millions of them qualify. To ease the preparation of GATE Electrical Engineering aspirants, EduGorilla has brought its two great tools- GATE Electrical Engineering mock tests and GATE Electrical Engineering online test series. GATE Electrical Engineering is held once in a year with one of the aims to produce a competent workforce of electrical engineers for both government institutions and private businesses. This way, GATE Electrical Engineering is beneficial for both test takers and their future employers. This is because successful aspirants of this test get their abilities verified for their employability. On the other hand, employers also get saved from separately organizing recruitment exams. Also, the aspirants may pursue postgraduate studies from this test. EduGorilla's GATE EE mock tests and GATE EE online test series help the aspirants in these regards.

Radar RF Circuit Design

Follow the career path that took Bill Gates from being a Harvard drop-out to one of the wealthiest men in the world, and learn how to think like the genius businessman himself. A household name for his role in the founding of ubiquitous computer software company Microsoft, Bill Gates is one of the world's great businessmen. Brought up to compete rigorously in all areas of his life, he dropped out of Harvard in 1975 to follow his dream of starting his own firm. He formed "Micro-Soft" and set about coding his way to the top. But creating software language was just the beginning of a journey that would eventually see Gates become the wealthiest man in the world. He not only knew how to develop a product, but was great at selling it too, becoming a figurehead of the staid but booming corporate America. In recent years, Gates turned away from the computer screen to combat injustices in the world, channeling huge amounts of his personal fortune into the Bill and Melinda Gates Foundation, a body whose operations are changing the way the charity sector goes about its business. How to Think Like Bill Gates reveals the key motivations, decisions, and philosophies that made Gates a name synonymous with success. Studying how he honed his business acumen, faced down all competitors, overcame adversity, and stood strong in the face of overwhelming odds, with quotes and passages by and about him, you too can learn to think like Bill Gates.

Production Technology

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.

Internal Combustion Engines

Revised extensively, the new edition of this text conforms to the syllabi of all Indian Universities in India. This text strictly focuses on the undergraduate syllabus of Design of Machine Elements I and II , offered over two semesters.

Building Technology (For Kerala University)

Refrigeration and Air Conditioning

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'.

A Modern Approach to Vernbal & Non Verbal Reasoning

Score of students appear for Graduate Aptitude Tests in Engineering and various competitive examinations. They take the test only after they have undergone a prescribed syllabus that make them eligible for the degree. A number of standard books must have been read and consulted by them but before examination or interview they would need a quick review of important aspects and fundamentals of several subjects. They would also need to test their understanding of the subjects by answering the questions. The present book provides such a means. It is not merely a collection of questions but an attempt to bring important aspects and fundamentals of various subjects of a wide branch of Engineering i.e., Mechanical Engineering. Besides brief review of subject matter questions-both problems and objective type have been carefully selected and formulated with an aim to help understand a subject in totality. The subjects have been greatly summarized by highlighting important aspects. The questions have been placed in order of logical development, with a view to continuously and progressively bring in the understanding. The wastage of space has particularly been avoided and hence repetition of question unless asked in some examination will not be found in this book. The Mechanical Engineering graduates will find this book helpful and handy for revising their understanding before any test and interview.

Mechanical Engineering for GATE (Graduate Aptitude Test in Engineering)

The text begins by reviewing, in a simple and precise manner, the physical

principles of three pillars of Refrigeration and Air Conditioning, namely thermodynamics, heat transfer, and fluid mechanics. Following an overview of the history of refrigeration, subsequent chapters provide exhaustive coverage of the principles, applications and design of several types of refrigeration systems and their associated components such as compressors, condensers, evaporators, and expansion devices. Refrigerants too, are studied elaboratively in an exclusive chapter. The second part of the book, beginning with the historical background of air conditioning in Chapter 15, discusses the subject of psychrometrics being at the heart of understanding the design and implementation of air conditioning processes and systems, which are subsequently dealt with in Chapters 16 to 23. It also explains the design practices followed for cooling and heating load calculations. Each chapter contains several worked-out examples that clarify the material discussed and illustrate the use of basic principles in engineering applications. Each chapter also ends with a set of few review questions to serve as revision of the material learned.

How to Think Like Bill Gates

GATE Mathematics

Engineering Thermodynamics has been designed for students of all branches of engineering specially undergraduate students of Mechanical Engineering. The book will also serve as reference manual for practising engineers. The book has been written in simple language and systematically develops the concepts and principles essential for understanding the subject. The text has been supplemented with solved numerical problems, illustrations and question banks. The present book has been divided in five parts: "Thermodynamic Laws and Relations" "Properties of Gases and Vapours" "Thermodynamics Cycles" "Heat Transfer and Heat Exchangers" Annexures

GATE Mechanical Engineering

GATE Mechanical Engineering is designed for candidates preparing for the Graduate Aptitude Test in Engineering (GATE). This examination is conducted across the country by the IITs and IISc and it focuses on engineering and science subjects. On the basis of the GATE Score, the higher educational institutes offer admission for M.Tech and Ph.D. programs. The GATE Score is also used by Public Sector units like ONGC, NTPC, ISRO, BHEL, DRDO, IOCL, NHPC and others to recruit entry-level engineers. The book is a valuable resource for the students who wish to achieve success in the GATE, and want to succeed in academic and employment pursuits. This book is based on the latest syllabus of GATE. It is divided into 17 chapters and each chapter contains key concepts and formulas, solved examples, previous years' GATE questions, and practice paper with solutions. KEY FEATURES

- Key concepts and formulas to facilitate quick revision of the important points in each chapter.
- Practice papers to self-assess are available at https://www.phindia.com/DP_Sharma_GATE_ME/
- More than 2100 problems with solutions to develop problem-solving skills.
- More than 1500 diagrams for easy understanding of the concepts which make the reading more fruitful.
- Most of the

questions are from previous years' GATE and IES exam papers. • Multiple choice questions help students to assess their learning. • Lucid presentation of solutions of practice papers to improve on the areas that need improvements. TARGET AUDIENCE • GATE examination (Mechanical Engineering) • PSUs examinations (Mechanical Engineering) • IES examination (Mechanical Engineering) • BE/B.Tech (Mechanical Engineering)

GATE 2017: MECHANICAL ENGINEERING

GATE - Mechanical Engineering 2016

Heat & Mass Transfer 2E

GATE : Mechanical Engineering

GATE Mechanical Engineering

This most popular and proven text takes a further lead with this revision by aligning its contents with the prescribed UGC model curriculum and new Choice Based Credit System (CBCS) syllabus. The book provides carefully tailored content for undergraduate courses in economics across a range of academic disciplines.

Quantitative Aptitude for Competitive Examinations

This authoritative new resource presents practical techniques for optimizing RF and microwave circuits for applications in radar systems design with an emphasis on current and emerging technologies. Professionals learn how to design RF components for radar systems and how to choose appropriate materials and packaging methods. This book explains how to integrate components while avoiding higher-level assembly issues and troubleshooting problems on the measurement bench. Theory and practical information are provided while addressing topics ranging from heat removal to digital circuit integration. This book is divided into three sections: the first section introduces the basics of microwave design, including transmission line theory and common materials used in RF circuits. The methods for creating accurate device models for both passive and active circuits are presented. The second part details the design of power amplifiers, low noise amplifiers, and passive elements. Both conventional and state-of-the-art design techniques are included with ample 'tips and tricks.' The last section concludes with a focus on component integration providing details on design methods for military operations, high manufacturing yield, and preventing measurement issues.

GATE 2020 for Mechanical Engineering | 32 Previous Years' Solved Question Papers | Also for GAIL, BARC, HPCL | By

Pearson

This Book Covers A Wide Range Of Topics In Statistics With Conceptual Analysis, Mathematical Formulas And Adequate Details In Question-Answer Form. It Furnishes A Comprehensive Overview Of Statistics In A Lucid Manner. The Book Provides Ready-Made Material For All Inquisitive Minds To Help Them Prepare For Any Traditional Or Internal Grading System Examination, Competitions, Interviews, Viva-Voce And Applied Statistics Courses. One Will Not Have To Run From Pillar To Post For Guidance In Statistics. The Answers Are Self-Explanatory. For Objective Type Questions, At Many Places, The Answers Are Given With Proper Hints. Fill-In-The-Blanks Given In Each Chapter Will Enable The Readers To Revise Their Knowledge In A Short Span Of Time. An Adequate Number Of Multiple-Choice Questions Inculcate A Deep Understanding Of The Concepts. The Book Also Provides A Good Number Of Numerical Problems, Each Of Which Requires Fresh Thinking For Its Solution. It Will Also Facilitate The Teachers To A Great Extent In Teaching A Large Number Of Courses, As One Will Get A Plethora Of Matter At One Place About Any Topic In A Systematic And Logical Manner. The Book Can Also Serve As An Exhaustive Text.

Principles of Microeconomics: A New-Look Textbook of Microeconomic Theory, 22e

Mechanics of Materials

GATE Solved Papers for Mechanical [ME]

Revised extensively and updated with several new topics, this book discusses the principles and applications of "Heat and Mass Transfer". It is written with extensive pedagogy, clear explanations and examples throughout to elucidate the concepts and facilitate problem solving.

Higher engineering mathematics

A to Z answers on all internal combustion engines! When you work with 4-stroke, 2-stroke, spark-ignition, or compression-ignition engines, you'll find fast answers on all of them in V. Ganesan's Internal Combustion Engines. You get complete fingertip data on the most recent developments in combustion & flame propagation, engine heat transfer, scavenging & engine emission, measurement & testing techniques, environmental & fuel economy regulations, & engine design. Plus the latest on air-standard, fuel-air, & actual cycles, fuels, carburetion, injection, ignition, friction & lubrication, cooling, performance, & more.

Mechanical Vibrations

GATE MECHANICAL ENGINEERING, Second Edition

Mechanical Engineering Guide for GATE/ PSUs

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) Civil 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 (O.T.)

GATE 2020 Mechanical Engineering Guide with 10 Practice Sets (6 in Book + 4 Online) 7th edition

This text serves as an introduction to the subject of vibration engineering at the undergraduate level. The style of the prior editions has been retained, with the theory, computational aspects, and applications of vibrations presented in as simple a manner as possible. As in the previous editions, computer techniques of analysis are emphasized. Expanded explanations of the fundamentals are given, emphasizing physical significance and interpretation that build upon previous experiences in undergraduate mechanics. Numerous examples and problems are used to illustrate principles and concepts. A number of pedagogical devices serve to motivate students' interest in the subject matter. Design is incorporated with more than 30 projects at the ends of various chapters. Biographical information about scientists and engineers who contributed to the development of the theory of vibrations given on the opening pages of chapters and appendices. A convenient format is used for all examples. Following the statement of each example, the known information, the quantities to be determined, and the approach to be used are first identified and then the detailed solution is given.

Engineering Thermodynamics

Engineering Thermodynamics

- 'GATE Mechanical Engineering Guide 2020 with 10 Practice Sets - 6 in Book + 4 Online Tests - 7th edition' for GATE exam contains exhaustive theory, past year questions, practice problems and Mock Tests.
- Covers past 15 years questions.
- Exhaustive EXERCISE containing 100-150 questions in each chapter. In all contains around 5300 MCQs.
- Solutions provided for each question in detail.
- The book provides 10 Practice Sets - 6 in Book + 4 Online Tests designed exactly on the latest pattern of GATE exam.

Theory of Machines

Building Technology involves selecting suitable material and carrying out building construction neatly. This book covers these aspects and is neatly written as per the syllabus of Kerala University. The text is presented in simple, precise and reader friendly language. It is amply supported by figures and tables. Key Features • Detailed coverage of the Kerala University syllabus. • Simple and precise explanations. • Text sufficiently illustrated by figures and tables. • Relevant IS Codes listed. • Exhaustive questions listed.

Fundamentals of Engineering Heat and Mass Transfer

The Theory of Machines

A comprehensive study guide for GATE by AglaSem The book contains GATE exam pattern, syllabus, and previous years solved papers of GATE exam.

Design of Machine Elements

This book has been developed by a group of faculties who are highly experienced in training GATE candidates and are also subject matter experts in their respective fields. The book is divided into three parts— covering (1) General Aptitude, (2) Engineering Mathematics and (3) Electronics and Communications Engineering'. Coverage is as per the syllabus prescribed for GATE and all 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. So, this book would definitely serve as a one-stop solution for all GATE aspirants, preparing for upcoming examination.

A Textbook of Strength of Materials

This book provides a leading platform for GATE aspirants to practice and hone their skills required to gain the best score in the examination. It includes more than 25 previous years' GATE questions segregated topic-wise supported by detailed step-wise solutions for all. Besides, the book presents the exam analysis at the beginning of every unit which will enable a better understanding of the subject. The questions in the chapters are divided according to their marks, hence emphasizing on their importance. This, in turn, will help the students to get an idea about the pattern and weightage of these questions that appeared in the GATE exam every year. Features: • Includes around 32 years' GATE questions arranged chapter-wise • Detailed solutions for better understanding • Includes the latest GATE solved question papers with detailed • analysis • Comprehensively revised and updated Table of Contents: Reviewers preface Syllabus: Mechanical Engineering Important Tips for GATEPreparation Unit 1: Engineering Mechanics Chapter1: Engineering Machines Unit 2: Strength of Materials Chapter1: SimpleStresses Chapter2: Complex Stresses Chapter3: SFD andBMD Chapter4: Centroids andMoment ofInertia Chapter5: PureBending Chapter6: Shear Stress in Beams Chapter7: Springs Chapter8: Torsion Chapter9: Slopes andDeflections Chapter10: Thin Cylinders Chapter11: Column andStruts Chapter12:

Propped and Fixed Beams Chapter 13: Strain Energy Unit 3: Machine Design
Chapter 1: Static Loading Chapter 2: Fatigue Chapter 3: Bolted,
Riveted and Welded Joints Chapter 4: Gears Chapter 5: Rolling Contact Bearings
Chapter 6: Sliding Contact Bearings Chapter 7: Brake Chapter 8: Clutches Unit 4:
Theory of Machines Chapter 1: Analysis of of Planner Mechanism Chapter 2: Dynamic
Analysis of Single Slider-crank Mechanism Chapter 3: Gear and gear Trains Chapter 4:
Fly Wheels Chapter 5: Mechanical Vibrations Unit 5: Fluid Mechanics and Turbo
Machinery Chapter 1: Property of Fluids Chapter 2: Fluid Statics Chapter 3:
Fluid Kinematics Chapter 4: Fluid Dynamics Chapter 5: Laminar Flow Chapter 6:
Turbulent Flow Chapter 7: Boundary Layer Chapter 8: Turbo Machinery Unit 6: Heat
Transfer Chapter 1: Conduction Chapter 2: FINS and THX Chapter 3: Convection
Chapter 4: Radiation Chapter 5: Heat Exchangers Unit 7: Thermodynamics
Chapter 1: Zeroth Law and Basic Concepts Chapter 2: Work and Heat Chapter 3: First
Law of Thermodynamics Chapter 4: Second Law of Thermodynamics Chapter 5: Entropy
Chapter 6: Property of Pure Substances Chapter 7: Availability Chapter 8: Air Cycles
Chapter 9: Psychrometry Chapter 10: Rankine Cycle Chapter 11: Gas Turbines
Chapter 12: Refrigeration Chapter 13: Internal Combustion Engines

GATE Civil Engineering 2019

GATE Mechanical Engineering is designed for candidates preparing for the Graduate Aptitude Test in Engineering (GATE). This examination is conducted across the country by the IITs and IISc and it focuses on engineering and science subjects. On the basis of the GATE Score, the higher educational institutes offer admission for M.Tech and Ph.D. programs. The GATE Score is also used by Public Sector units like ONGC, NTPC, ISRO, BHEL, DRDO, IOCL, NHPC and others to recruit entry-level engineers. The book is a valuable resource for the students who wish to achieve success in the GATE, and want to succeed in academic and employment pursuits. This book is based on the latest syllabus of GATE. It is divided into 17 chapters and each chapter contains key concepts and formulas, solved examples, previous years' GATE questions, and practice paper with solution. KEY FEATURES • Key concepts and formulas to facilitate quick revision of the important points of the chapter. • Practice papers to self-assess and prepare for the latest GATE pattern. • More than 1800 problems with solutions to develop problem-solving skills. • More than 1200 diagrams for easy understanding of the concepts which make the reading more fruitful. • Most of the questions are from previous years' GATE and IES exam papers. • Multiple choice questions help students to assess their learning. • Lucid presentation of solutions of practice papers to improve on the areas that need improvements.

Programmed Statistics (Question-Answers)

This text is meant to fill a long felt need for a comprehensive and authoritative book on heat and mass transfer for students of Mechanical/Chemical/Aeronautical/Production/ Metallurgical engineering. The dual objective of understanding the physical phenomena involved and the ability to formulate and solve typical problems by an average student has been kept in mind while writing this book. In this text, an effort has been made to identify the similarities in both qualitative and quantitative approach, between heat transfer and mass transfer. This gives a better understanding of the phenomena of mass

transfer. The subject matter has been developed to a sufficiently advanced stage in a logical and coherent manner with neat illustrations along with an adequate number of solved examples. A large number of problems (with answers) at the end of each chapter assist in the pedagogy. The book has been appended with a set of selected MCQs. The role of experimentation in the teaching of Heat and Mass Transfer is well established. Properly designed experiments reinforce the teaching of basic principles more thoroughly. Keeping this in mind one full chapter comprising 12 typical experiments forms another special feature of this text.

Contents: Basic Concepts Fundamental Equations of Conduction One-Dimensional Steady State Heat Conduction Multi-Dimensional Steady State Conduction Transient Heat Conduction Fundamentals of Convective Heat Transfer Forced Convection Systems Natural Convection Thermal Radiation - Basic Relations Radiative Heat Exchange Between Surfaces Boiling and Condensation Heat Exchangers Diffusion Mass Transfer Convective Mass Transfer Experiments in Engineering Heat and Mass Transfer.

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