

| Code | Subjects | Short Name | Weekly Work Load (in Hrs) | | | Semester Examination Scheme of Marks | | | | | | Credits |
|---------------------|---|------------|---------------------------|-----------|---------|--------------------------------------|--------------------|-----|-----|----|------------|---------|
| | | | Lectures | Tutorials | PR/OR G | Theory | | TW | PR | OR | Max. Marks | |
| | | | | | | In-Semest or Exam | End-Semest or Exam | | | | | |
| 107001 | Engineering Mathematics I | | 4 | 1 | – | 50 | 50 | 25 | – | – | 125 | 5 |
| 107002 / 107009. | Engineering Physics OR Engineering Chemistry | | 4 | – | 2 | 50 | 50 | 25 | – | – | 125 | 5 |
| 102006 | Engineering Graphics I | | 3 | – | 2 | 50 | 50 | – | – | – | 100 | 4 |
| 103004 / 104012 | Basic Electrical Engineering OR Basic Electronics Engineering | | 3 | – | 2 | 50 | 50 | 25 | – | – | 125 | 4 |
| 101005 | Basic Civil and Environmental Engineering | | 3 | – | 2 | 50 | 50 | 25 | – | – | 125 | 4 |
| 110003 | Fundamentals of Programming Languages I | | 1 | – | 2 | – | – | – | 50* | – | 50 | 2 |
| 111007 | Workshop Practice | | – | – | 2 | – | – | 50 | – | – | 50 | 1 |
| Total of Semester I | | | 18 | 1 | 12 | 250 | 250 | 150 | 50 | – | 700 | 25 |

Mechanical Engineering First Year Pune

Anup Goel



Mechanical Engineering First Year Pune:

Basic Mechanical Engineering Anup Goel, 2021-01-01 Mechanical engineering as its name suggests deals with the mechanics of operation of mechanical systems This is the branch of engineering which includes design manufacturing analysis and maintenance of mechanical systems It combines engineering physics and mathematics principles with material science to design analyse manufacture and maintain mechanical systems This book covers the field requires an understanding of core areas including thermodynamics material science manufacturing energy conversion systems power transmission systems and mechanisms My hope is that this book through its careful explanations of concepts practical examples and figures bridges the gap between knowledge and proper application of that knowledge **Vishwadharmi**

Prof. Dr. Vishwanath D. Karad - A Great Visionary Philosopher Scientist Rahul Vishwanath Karad, 2022-02-22 Early in 1981 the visionary in Dr Vishwanath D Karad saw the need for unaided engineering colleges to cater to the demand of India that was rapidly rising in aspirations In the subsequent years the state of Maharashtra and indeed the entire nation put brick and mortar to this vision to the point that today India produces 1.5 million engineering graduates per year the majority of them from unaided institutions This has helped India to be the biggest exporter of white collar jobs globally since the turn of the century The educationist scientist spiritualist philanthropist education builder humanist and peace ambassador put all his experiences together in recent years to make the world's largest dome the dome at Vatican City Rome Italy is now second placed and the world's first peace dome which will likely end up being the eighth wonder of the world This book is a collection of testimonials written by esteemed personalities of our society for this living jewel of India Advanced

Computing Deepak Garg, Joel J. P. C. Rodrigues, Suneet Kumar Gupta, Xiaochun Cheng, Pushpender Sarao, Govind Singh Patel, 2024-03-25 The two volume set CCIS 2053 and 2054 constitutes the refereed post conference proceedings of the 13th International Advanced Computing Conference IACC 2023 held in Kolhapur India during December 15-16 2023 The 66 full papers and 6 short papers presented in these proceedings were carefully reviewed and selected from 425 submissions The papers are organized in the following topical sections Volume I The AI renaissance a new era of human machine collaboration application of recurrent neural network in natural language processing AI content detection and time series data analysis unveiling the next frontier of AI advancement Volume II Agricultural resilience and disaster management for sustainable harvest disease and abnormalities detection using ML and IOT application of deep learning in healthcare cancer detection using AI Untold Journey of a Soldier Colonel Anurag Bahukhandi, 2024-11-26 In this compelling autobiography the author recounts a journey through the lesser known yet equally vital aspects of military life Untold Journey of a Soldier delves into the technical and administrative challenges faced in the line of duty revealing the grit and resilience required to overcome obstacles With candid reflections and practical tips this book serves as both an engaging narrative and a valuable guide for those seeking to navigate the complexities of technical and administrative aspects of military as well as civil jobs Join the

author as he illuminate the path from anonymity to triumph showcasing the strength of the human spirit in the face of adversity

FUNDAMENTALS OF MECHANICAL ENGINEERING SAWHNEY, G. S.,2015-06-30 Written with the first year engineering students of undergraduate level in mind the well designed textbook now in its Third Edition explains the fundamentals of mechanical engineering in the area of thermodynamics mechanics theory of machines strength of materials and fluid dynamics As these subjects form a basic part of an engineer s education this text is admirably suited to meet the needs of the common course in mechanical engineering prescribed in the curricula of almost all branches of engineering This revised edition includes a new chapter on Fluid Dynamics to meet the course requirement Key Features Presents an introduction to basic mechanical engineering topics required by all engineering students in their studies Includes a series of objective type question True and False Fill in the Blanks and Multiple Choice Questions with explanatory answers to help students in preparing for competitive examinations Provides a large number of solved problems culled from the latest university and competitive examination papers which help in understanding theory

REFRIGERATION AND AIR CONDITIONING S. N. SAPALI,2013-11-13 This book is designed for a first course in Refrigeration and Air Conditioning The subject matter has been developed in a logical and coherent manner with neat illustrations and a fairly large number of solved examples and unsolved problems The text developed from the author s teaching experience of many years is suitable for the senior level undergraduate and first year postgraduate students of mechanical engineering automobile engineering as well as chemical engineering The text commences with an introduction to the fundamentals of thermo dynamics and a brief treatment of the various methods of refrigeration Then follows the detailed discussion and analysis of air refrigeration systems vapour compression and vapour absorption refrigeration systems with special emphasis on developing sound physical concepts and gaining problem solving skills Refrigerants are exhaustively dealt with in a separate chapter The remainder chapters of the book deal with psychrometry and various processes required for the analysis of air conditioning systems Technical descriptions of compressors evaporators condensers expansion devices and ducts are provided along with design practices for cooling and heating load calculations The basic principles of cryogenic systems and applications of cryogenic gases and air liquefaction systems have also been dealt with The Second Edition incorporates a New sections on vortex tube solar refrigeration and magnetic refrigeration in Chapter 2 b Additional solved examples on vapour compression refrigeration system using the R134a refrigerant in Chapter 4 c New sections on duct arrangement systems and air distribution systems in Chapter 15 d A new Chapter 17 on Food Preservation

Innovative Design, Analysis and Development Practices in Aerospace and Automotive Engineering (I-DAD 2018) U. Chandrasekhar,Lung-Jieh Yang,S. Gowthaman,2018-12-14 The book includes the best articles presented by researchers academicians and industrial experts at the International Conference on Innovative Design and Development Practices in Aerospace and Automotive Engineering I DAD 2018 The book discusses new concept in designs and analysis and manufacturing technologies for improved

performance through specific and or multi functional design aspects to optimise the system size weight to strength ratio fuel efficiency and operational capability Other aspects of the conference address the ways and means of numerical analysis simulation and additive manufacturing to accelerate the product development cycles Describing innovative methods the book provides valuable reference material for educational and research organizations as well as industry wanting to undertake challenging projects of design engineering and product development

Systems in Mechanical Engineering Anup Goel,2021-01-01 Mechanical engineering as its name suggests deals with the mechanics of operation of mechanical systems This is the branch of engineering which includes design manufacturing analysis and maintenance of mechanical systems It combines engineering physics and mathematics principles with material science to design analyse manufacture and maintain mechanical systems This book covers the field requires an understanding of core areas including thermodynamics material science manufacturing energy conversion systems power transmission systems and mechanisms This book includes basic knowledge of various mechanical systems used in day to day life My hope is that this book through its careful explanations of concepts practical examples and figures bridges the gap between knowledge and proper application of that knowledge

Mechanical Operations Kiran D Patil,2012-09 Properties and Handling of Particulate Solids Conveyors Mixing of Solids and Pastes Size Reduction Mechanical Separations Screening Filtration Separation Based on Motion of Particulate through the Fluids Mixing and Agitation Fluidization Beneficiation Process

When I was Me? ----based on true incidents---- Mr. yogesh Bhila Patil,2025-06-03 This book is more than just the author s story it is his voice reaching out to those who may be searching for the support he once needed Based on true events it explores the struggle between physical experience and medical interpretation While science may define his condition as a disorder the author firmly believes in the reality of what he lived through Through reflections on joblessness mental health and fatherhood he discovered that happiness isn t found in grand achievements but in the simple joys of giving and loving especially the moments shared with his son His journey is one of resilience acceptance and moving forward no matter how many questions life leaves unanswered This autobiography doesn t only recount personal struggles it offers insight strength and knowledge If it inspires even one soul to rise again then every hardship the author faced finds its purpose

A Brief History of Mechanical Engineering Uday Shanker Dixit,Manjuri Hazarika,J. Paulo Davim,2016-08-13 What is mechanical engineering What a mechanical engineering does How did the mechanical engineering change through ages What is the future of mechanical engineering This book answers these questions in a lucid manner It also provides a brief chronological history of landmark events and answers questions such as When was steam engine invented Where was first CNC machine developed When did the era of additive manufacturing start When did the marriage of mechanical and electronics give birth to discipline of mechatronics This book informs and create interest on mechanical engineering in the general public and particular in students It also helps to sensitize the engineering fraternity about the historical aspects of engineering At the same time it provides a common sense knowledge of mechanical

engineering in a handy manner *Mechanical Engineering* American Society of Mechanical Engineers, 1919 History of the American society of mechanical engineers Preliminary report of the committee on Society history issued from time to time beginning with v 30 Feb 1908 **2024-25 SSC JE Mechanical Engineering Solved Papers** YCT Expert Team , 2024 25 SSC JE Mechanical Engineering Solved Papers Guide to Coal India Management Trainee Tier I & II Mechanical Engineering Exam with 2022 Solved Paper 2nd Edition Disha Experts, 2019-12-24 Guide to Coal India Management Trainee Tier I II Mechanical Engineering Exam covers all the 5 sections including the Technical Ability section in detail The book covers the complete syllabus as prescribed in the latest notification The book is divided into 5 sections which are further divided into chapters which contains theory explaining the concepts involved followed by practice exercises The Technical section is divided into 11 chapters The book also provides 2022 Tier I II Solved Papers SSC Junior Engineers Mechanical Engineering Paper 1 2019 Arihant Experts, 2019-06-04 Staff Selection Commission SSC is one of the prestigious organisations of Government of India known widely for recruiting potential candidates for various posts at various subordinate offices SSC Junior Engineer CPWD MES Mechanical Engineering for Paper I Computer based test CBT 2019 is a revised edition to provide students an updated version of study material following the latest examination pattern for this examination It is divided into three parts covering General Intelligence and Reasoning General Awareness and Mechanical along with their chapters equipped with complete theories Each chapter consists of sufficient number of MCQs for harnessing the conceptual clarity It has 3 solved papers of 2015 2017 and 2018 with detailed solutions It also provides 3 mock tests for self practice Enclosed with such effective set of study material it is hoped that it will ensure success in this upcoming examination TOC Solved Paper 2018 Solved Paper 2017 Solved Paper 2015 PART A General Intelligence Reasoning PART B General Awareness PART C Mechanical 3 Mock Test **SSC JE Mechanical Engineering (Paper 1) | 8 Full-length Mock Tests + 3 Previous Year Papers (2200+ Solved Questions)** EduGorilla Prep Experts, 2022-08-03 Best Selling Book for SSC JE Mechanical Engineering Paper 1 with objective type questions as per the latest syllabus given by the SSC Compare your performance with other students using Smart Answer Sheets in EduGorilla s SSC JE Mechanical Engineering Paper 1 Practice Kit SSC JE Mechanical Engineering Paper 1 Preparation Kit comes with 11 Tests 8 Full length Mock Tests 3 Previous Year Papers with the best quality content Increase your chances of selection by 14X SSC JE Mechanical Engineering Paper 1 Prep Kit comes with well structured and 100% detailed solutions for all the questions Clear exam with good grades using thoroughly Researched Content by experts **Theory of Machines and Mechanisms I.** Emilio Bautista, 1987 *Solid Rocket Propellants* Haridwar Singh, Himanshu Shekhar, 2019-03-07 Propellants contain considerable chemical energy that can be used in rocket propulsion Bringing together information on both the theoretical and practical aspects of solid rocket propellants for the first time this book will find a unique place on the readers shelf providing the overall picture of solid rocket propulsion technology Aimed at students engineers and researchers in the area

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