Module - I (10 Hours)

History of Indian Railways, Component parts of railway track, Problems of multi gauge system, Wheel and axis arrangements, Coning of wheels, Various resistances and their evaluation, hauling capacity and tractive effort, stresses in rail, sleepers, ballast and formation. Permanent way component parts:, wear and failure in rails, Rail joints, bearing plates, anti-creep devices, check and guard rails, Ballast requirements, Specifications, Formation, Cross-section, drainage.

Module - II (10 Hours)

Geometric design: Alignment, horizontal curves, super elevation, equilibrium cunt and cant deficiency. Length of transition curves, Gradients and grade compensation, vertical curves. Point and Crossing: Design of simple turn out, various types of track junction and their configurations.

Module - III (10 Hours)

Signalling and interlocking: Control of train movement and monitoring, types of signals, principles of interlocking. Air Transport Development: Airport scenario in India — Stages of development, Aircraft characteristics, airport planning, site selection, Obstruction and zoning laws, Imaginary surfaces, Approach zones and turning zones.

Module – IV (10 Hours) Runways and Taxiway design: Elements of runway, orientation and configuration, Basic runway length and corrections. Geometric elements design, Taxiway design, Main and exit taxiway, Separation clearance, Holding aprons, Typical airport layouts, Terminal building, gate position. Visual Aids and Air Traffic Control: Airport making and lighting. Airway and airport traffic control, Instrumental landing systems and Air navigation aids.

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New Serial Titles, 1988 A union list of serials commencing publication after Dec 31 1949 **The Reserve Marine** Soft Skills for Employability: A Guide to Success, VTU Revised Syllabus 2025 Dr. Udayakumar Hiremath, Dr. .1956 Rajashekara M N,2025-09-14 Discover the essential guide to mastering soft skills for today s competitive job market aligned with the VTU revised syllabus 2025 This comprehensive book focuses on developing crucial employability skills that make candidates stand out in their professional journey The content covers vital aspects of personal and professional development from effective communication and teamwork to problem solving and leadership qualities Perfect for students and young professionals this guide provides practical insights and strategies for workplace success The book emphasises collaborative skills confidence building and responsible professional conduct all key elements that employers value Written by experienced academics it offers a structured approach to understanding and implementing soft skills in real world scenarios Whether you re preparing for your first job or looking to advance your career this resource serves as your roadmap to enhanced employability and professional growth Accounting for Managers: For VTU, Advances in Geotechnical and Transportation Engineering Sireesh Saride, B. Umashankar, Deepti Avirneni, 2020-04-09 This book presents the selected peer reviewed papers from the national conference Futuristic Approaches in Civil Engineering FACE 2019 This volume focuses on latest research and challenges in the field of geotechnical transportation environmental and water resources engineering The first part focuses on alternative and sustainable pavement materials maintenance and rehabilitation of roads transportation planning traffic engineering hybrid vehicles safety management and intelligent transport systems In the second part of the book basic and advanced research in geotechnical engineering which can provide sustainable solutions to practical problems in foundations retaining structures soil dynamics site characterization slope stability dams rock engineering environmental geotechnics and geosynthetics are covered The third part of the book includes current research in environment and water resources engineering The contents of this book will be useful for students researchers as well as industry professionals

Airline Transport Pilot, Aircraft Dispatcher, and Flight Navigator Written Test Book ,1993 Accounts and Papers Great Britain. Parliament. House of Lords,1852 Operations Research D S Hira,1992 The author have used numerical examples as the means for presentation of the underlying ideas of different operations research techniques Accordingly a large number of comprehensive solved examples taken from a variety of fields have been added in every chapter and they are followed by a set of unsolved problems with answers and hints wherever required through which readers can test their understanding of the subject matter The book in its present form contains around 650 examples 1 280 illustrative diagrams National Union Catalog ,1968 Includes entries for maps and atlases ELEMENTS OF CIVIL ENGINEERING AND ENGINEERING MECHANICS M. N. SHESHA PRAKASH,GANESH B. MOGAVEER,2014-07-30 This book in its third edition continues to focus on the basics of civil engineering and engineering mechanics to provide students

with a balanced and cohesive study of the two areas as needed by them in the beginning of their engineering education A basic undergraduate textbook for the first year students of all branches of engineering this book is specifically designed to conform to the syllabus of Visvesvaraya Technological University VTU Imparting the basic knowledge in various facets of civil engineering and the related engineering structures and infrastructure such as buildings roads highways dams and bridges the third edition covers the engineering mechanics portion in eleven chapters Each chapter introduces the concepts to the reader stepwise Providing a wealth of practice examples the book emphasizes the importance of building strong analytical skills Practice problems at the end of each chapter give students an opportunity to absorb concepts and hone their problem solving skills The book comes with a companion CD containing the software developed using MS Excel to work out the problems on Forces Centroid Friction and Moment of Inertia The use of this software will enable the students to understand the concepts in a relatively better way NEW TO THIS EDITION Introduces a chapter on Kinematics as per the revised Civil Engineering syllabus of VTU Updates with the latest examination Question Papers including the one held in the month of December 2013

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