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.

Transportation Engineering 1 Vtu Notes

N. Vinod Chandra Menon, Sreevalsa Kolathayar, Hugo Rodrigues, K. S. Sreekeshava

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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 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

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Management SECON 20 held in Angamaly Kerala India on 14 15 May 2020 The meeting served as a fertile platform for discussion sharing sound knowledge and introducing novel ideas on issues related to sustainable construction and design for the future The respective contributions address various aspects of numerical modeling and simulation in structural engineering structural dynamics and earthquake engineering advanced analysis and design of foundations BIM building energy management and technical project management Accordingly the book offers a valuable up to date tool and essential overview of the subject for scientists and practitioners alike and will inspire further investigations and research

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