

**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 cant 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

**Raffaela Di Napoli**



## Transportation Engineering 1 Vtu Notes:

*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 Elements of Civil Engineering and Engineering Mechanics Prakash M. N. Shesha,mogaveer Ganesh B.,2011-11-30 It is a basic under graduate textbook for first year students of all branches of engineering though especially designed to conform to the syllabus of visvesaraya technological university vtu The book imparts basic knowledge in various facets of civil engineering and the related engineering structures and infrastructure such as buildings roads highways dams and bridges inter alia emphasizing the role and responsibilities of a civil engineer in modern society It also briefly explains the broad scope of allied fields of civil engineering such as surveying transportation water resources environmental engineering geotechnical engineering foundation engineering and construction technology The engineering mechanics portion of the book is comprehensively covered in eight chapters divided into topics on forces centroid moment of inertia and friction Each chapter introduces the concepts to the reader gradually and stepwise Providing a wealth of practice examples the book em New Serial Titles ,1989 A union list of serials commencing publication after Dec 31 1949 **National Union Catalog** ,1982 **The Reserve Marine** ,1962 **National Union Catalog, 1981** ,1982 Linear Operator Methods in Chemical Engineering with Applications to Transport and Chemical Reaction Systems Doraiswami Ramkrishna,Neal Russell Amundson,1985 C.E. 4201 A. M. Stevens,University of New Brunswick. Department of Civil Engineering,1971 The National union catalog. 1968-1972 ,1973 The National Union Catalogs, 1963- ,1964 **Who is who in Lithuania** ,2004 **The Engineering Index Annual** ,1994 Since its creation in 1884 Engineering Index has covered virtually every major engineering innovation from

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## Whispering the Secrets of Language: An Emotional Journey through **Transportation Engineering 1 Vtu Notes**

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