

Basic Civil Engineering Notes 1st Semester

Basics of Civil Engineering Dr. Mukul Burghate Engineering has been an aspect of life since the beginnings of human existence. The earliest practice of civil engineering may have commenced between 4000 and 2000 BC in ancient Egypt, the Indus Valley civilization, and Mesopotamia (ancient Iraq) when humans started to abandon a nomadic existence, creating a need for the construction of shelter. During this time, transportation became increasingly important leading to the development of the wheel and sailing. Civil engineering is the application of physical and scientific principles for solving the problems of society, and its history is intricately linked to advances in the understanding of physics and mathematics throughout history. Because civil engineering is a broad profession, including several specialized sub-disciplines, its history is linked to knowledge of structures, materials science, geography, geology, soils, hydrology, environmental science, mechanics, project management, and other fields. Throughout ancient and medieval history most architectural design and construction was carried out by artisans, such as stonemasons and carpenters, rising to the role of master builder. Knowledge was retained in guilds and seldom supplanted by advances. Structures, roads, and infrastructure that existed were repetitive, and increases in scale were incremental. The purpose of this textbook is to present an introduction to the subject of Basics of Civil Engineering of Bachelor of Engineering (BE) Semester - I. The book contains the syllabus from basics of the subjects going into the intricacies of the subjects. Students are now required to solve minimum Four (4) Assignments based on the Syllabus. Each topic is followed by Assignment Questions which now forms the compulsory part of internal assessment. All the concepts have been explained with relevant examples and diagrams to make it interesting for the readers. An attempt is made here by the experts of TMC to assist the students by way of providing Study text as per the curriculum with non - commercial

considerations. We owe to many websites and their free contents; we would like to specially acknowledge contents of website www.wikipedia.com and various authors whose writings formed the basis for this book. We acknowledge our thanks to them. At the end we would like to say that there is always a room for improvement in whatever we do. We would appreciate any suggestions regarding this study material from the readers so that the contents can be made more interesting and meaningful. Readers can email their queries and doubts to tmcnagpur@gmail.com. We shall be glad to help you immediately. Dr. Mukul Burghate Author *Register of the University of California* University of California Berkeley 1896 *Subject-index to the author-catalogue. 1908-10.* 2 v Imperial Library, Calcutta 1908 *The Alumni Quarterly and Fortnightly Notes* 1919 *University of Vermont Notes* 1917 *The Cornell Civil Engineer* 1922 Includes transactions of the Association. *Register* University of California, Berkeley 1905 **Municipal Reference Library Notes** 1915 *Catalogue* Calcutta (India). Imperial library 1908 *Notes on Hydrologic Activities* United States. Inter-agency Committee on Water Resources 1952 **Notes and Queries and Historic Magazine** Sylvester Clark Gould 1892 *Record ... Catalog ... Announcements* Clemson Agricultural College of South Carolina 1924 800+ Objective Economy MCQs with 100% Explanatory Notes for Civil Services & other Competitive Exams 5th Edition Pages-92 **Notes - Municipal Reference and Research Center** Municipal Reference and Research Center (New York, N.Y.) 1915 **The Engineer** 1890 *Courses of Study* Catholic University of America 1923 *Municipal Reference Library Notes* New York Public Library. Municipal Reference Library 1915 *Inspection Notes, 1916-1918* India. Industrial Commission 1918

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Basic Hydraulics P D Smith 2013-10-22 BASIC

Hydraulics aims to help students both to become proficient in the BASIC programming language by actually using the language in an important field of engineering and to use computing as a means of mastering the subject of hydraulics. The book begins with a summary of the technique of computing in BASIC together with comments and listing of the main commands and statements. Subsequent chapters introduce the fundamental concepts and appropriate governing equations. Topics covered include principles of fluid mechanics; flow in pipes, pipe networks and open channels; hydraulic machinery; and seepage and groundwater flow. Each chapter provides a series of worked examples consisting primarily of an introduction in which the general topic or specific problem to be considered is presented. A program capable of solving the problem is then given, together with examples of the output, sometimes for several different sets of conditions. Finally, in a section headed Program Notes the way the program is constructed and operates is explained, and the engineering lessons to be learned from the program output are indicated. Each chapter also concludes with a set of problems for the student to attempt. This book is mainly intended for the first- and second-year undergraduate student of civil engineering who will be concerned with the application of fundamental fluid mechanics theory to civil engineering problems.

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