

# About Civil Engineering

## Basic of Civil Engineering

- 1] Initial setting time of cement — 30 min.
- 2] Final setting time of cement — 10 hrs
- 3] DPR — Detailed Project report
- 4] 1 Gallon — 3.78 liters
- 5] Standard size of brick — 190mm x 90mm  
x 90mm
- 6] 1 yard — 3 Feet
- 7] Dimensional tolerance of cube =  $\pm 2$  mm
- 8] Density — RCC — 2500 kg/m<sup>3</sup>
- 9] Density — PCC — 2400 kg/m<sup>3</sup>
- 10] Steel — 7850 kg/m<sup>3</sup>

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# Basic Civil Engineering Notes 1st Semester

**Imperial Library, Calcutta**



## **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](http://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](mailto:tmcnagpur@gmail.com) We shall be glad to help you immediately Dr Mukul Burghate Author 800+ Objective Economy MCQs with 100% Explanatory Notes for Civil Services & other Competitive Exams 5th Edition Pages-92 , Municipal Reference Library Notes New York Public Library. Municipal Reference Library,1915 *Notes on Hydrologic Activities* United States. Inter-agency Committee on Water Resources,1952 Register University of California, Berkeley,1905 Register of the University of California University of California, Berkeley,1896 Record ... Catalog ... Announcements Clemson Agricultural College of South Carolina,1924 **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

**Subject-index to the author-catalogue. 1908-10. 2 v** Imperial Library, Calcutta, 1908      **Catalogue** Calcutta (India). Imperial library, 1908  
**The Engineer** ,1890      *The Cornell Civil Engineer* ,1922 Includes transactions of the Association      **Notes and Queries and Historic Magazine** Sylvester Clark Gould, 1892      **Courses of Study** Catholic University of America, Washington Catholic university of America (D.C.), 1923      **Miscellaneous Notes and Queries** ,1892      *Annual Catalogue* College of Hawaii, 1918      **Year-book of the Catholic University of America** Catholic University of America, 1921      *Notes on the history of University college, London. With a record of the session 1886-87* London univ, univ. coll, 1886      *News Notes of California Libraries* California State Library, 1917 Vols for 1971 include annual reports and statistical summaries      **Subject-index to the author-catalogue. 1908-10. 2 v** ,1908

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