

MODULE : 01

INTRODUCTION

Hours : 06

Marks : 12

Branches of Geology useful in Civil Eng.

Geology

(From Greek; Geo = Earth & Logos = Science)

Geology is the science that deals with study of earth as a planet. Thus it include essence of scientific study deals with age, origin & structure of earth. It also deals with evolution, modification & extension extinction of various surface & subsurface physical features like mountains, plateaus, plains, valleys, basin caves & all coastal marine & submarine forms

i. Main Core Branches of Geology

a) Physical Geology : Study of upper surface of earth i.e. mountains, valley, plains, & time to time change in it due to weathering & erosion & study of landslides, volcanism, earthquake

b) Mineralogy : Mineralogy is the branch of geology deals with the scientific study of minerals. Minerals are Naturally occurring, Inorganic, Solid, Definite Chemical composition, Internal structure. In mineralogy mostly studied its optical properties i.e. internal structure of minerals that is cubic, hexagonal, etc.

c) Petrology : (From greek, Petro = Rock) Study of origin, texture, structure, formation, composition of different types of rocks etc.

Engineering Geology Notes

Rachel Sandford



Engineering Geology Notes:

Lecture Notes Niek Rengers, International Institute for Aerial Survey and earth Sciences, 1973 **Principles of Engineering Geology (lecture Notes of Subject H.5)** Niek Rengers, Institut international de levés aériens et sciences de la terre, 1975 Principles of Engineering Geology Niek Rengers, 1981 *CE446 - Engineering Geology* D. H. Gray, 19??

Engineering Geology for Geologists A. F. Geiger, A. W. Hatheway, American Geological Institute, 1978 **Notes on Engineering Geology for the Snowy Mountains Scheme** Snowy Mountains Hydro-electric Authority. Engineering Geology Branch, D. G. Moye, 1964 **Engineering Geology in Construction Excavation** Association of Engineering Geologists, 1980* *Engineering Geology 260* Karl Terzaghi, 1996 Engineering Geology, 2nd Edition Reddy D.V., Engineering Geology is a multidisciplinary subject that interacts with other disciplines such as mineralogy petrology structural geology hydrogeology seismic engineering rock engineering soil mechanics geophysics remote sensing RS GIS GPS and environmental geology This book is the only one of its kind in the Indian market that caters to the students of all these subjects Engineers require a deep understanding interpretation and analyses of earth sciences before suggesting engineering designs and remedial measures to combat natural disasters such as earthquakes volcanoes landslides debris flows tsunamis and floods This book covers all aspects of engineering geology and is intended to serve as a reference for practicing civil engineers geotechnical engineers marine engineers geologists and mining engineers Engineering Geology has also been designed as a textbook for students pursuing undergraduate and postgraduate courses in advanced applied geology and earth sciences A plethora of examples and case studies relevant to the Indian context have been included for better understanding of the geological challenges faced by engineers New in this Edition The concept of watershed and the depiction of watershed atlas of India Latest findings by the Indian Bureau of Mines Recent developments in coastal engineering and innovative structures New types of protective structures to guard against tsunamis Role of geology in building smart cities Environmental legislation in India Engineering geology D. G. Price, 1989 **Notes on Geology and Engineering Geology, Bendora Water Main, A.C.T.** George Anthony Michael Henderson, 1973 Engineering geology C. A. Davenport, D. G. Price, 2003 **Engineering Geology of Melbourne** J.L. Neilson, 2018-02-06 A compilation of papers describing the geology engineering properties and the hazards and design issues associated with the substrata of Melbourne and its surrounds It includes the area from Geelong to Bacchus Marsch to the Dandenongs and Mornington Peninsula

Environmental Geology Notes , 1986 **Mp4720 Marine Engineering Geology** P.M. Maurenbrecher, Delft University of Technology, Faculty of Mining and Petroleum Engineering. Section Engineering Geology, 1994 Quarry and Surveyors' and Contractors' Journal , 1916 Engineering Geology for Infrastructure Planning in Europe Robert Hack, Rafiq Azzam, Robert Charlier, 2004-04-22 Geologists and civil engineers related to infrastructure planning design and building describe professional practices and engineering geological methods in different European infrastructure projects

Engineering Geology for Geologist A.F. Geiger,A.W. Hatheway,American Geological Institute,Association of Engineering Geologists,1978 *Bulletin - Association of Engineering Geologists* Association of Engineering Geologists,1981

Engineering Geology Analysis of Geologic Factors in Site Selection and Design for Engineered Notes and Exercises T. Z. Jones,1977

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