

Course syllabus

Department of Civil Engineering, Indian Institute of Technology Madras

CE5430- Geotechnical Engg. Design Studio

Credit Distribution: C:6 L:1 T:0 P:3 E:0 O:2 TH:6

Course Type: Lab

Description: Fundamentals of Geotechnical analysis and design. Design of pilefoundations. Design of Diaphragm walls. Design of prestressedground anchors. Design of machine foundations. Seismic analysis and design of soil structure retaining walls and foundations.Usage of softwares such as FEAppv, TALREN, Sage “ CRISP, SIGMA/W, GEO 4 and GEOFEM : Line Nonlinear analysis.Computer “ based Laboratory Exercises.

Course Content : NIL

Text Books NIL

Reference Books : NIL

Prerequisite: NIL