INTRODUCTION

equillibrium method (LEM) based on and corresponding stress- strain conditions. equations of static equillibrium, calculates the factor of safety (FOS) without any information about stress-strain in the soil mass. The developments of stability analysis of slope have closely followed the developments in computational mechanics. The present course aims at familiarsing the professional engineers on different slope stability methods and their applicability to different problems.

SCOPE

Out of different methods like limit analysis, finite element method, finite difference method, boundary element method, The LEM is more popular as it is easy to do the analysis. However, over the years the basic materials for the dykes/small dams are

chaning particularly for check dams, tailing Stability analysis of slope is one of the most dams, ash ponds etc. In these cases the the sought after problem in civil and mining stress – strain information is very important engineering. The stability of natural slopes along with the factor of safety value. Hence, like hilly terrains, river beds and man made there is a need of analyzing slopes using SLOPE STABILITY ANALYSIS FOR CIVIL slopes like dams, embankments of highways finite element method (FEM). In the & MINING ENGINEERS and railways is the pripority of Civil proposed short term course it is intended to engineers to avoid disasters. Similarly, discuss the application of FEM to slope management of cut slopes and stability of stability analysis vis-a-vis the traditional dump slope is very important for mine LEM. The use of FEM based softwaresafety. Gravitional force, force due to PLAXIS will be used to analysis different seepage, sudden drawdown cases and types of slopes i.e. embankment, dump seismic forces are governing factyors slope, tailing dams, mine cut slopes, hilly affecting the stability of slopes. The limit terrains etc. to find out the factor of safety

THEMES

The broad outline of the course is as follows but not limited to:

- Natural and manmade slopes
- Classification of slopes
- Factors affecting stability of slopes
- Slope stability analysis methods
- Computer methods for slope stability analysis
- Case studies

TEQIP-II SHORT TERM COURSE

ON

September 28-30, 2016



Coordinators

Sarat Kumar Das

Department of Civil Engineering Sk. Md Equeenudin Department of Earth & Atmos. Sc



National Institute of Technology, Rourkela Odisha-769008, India

WHO SHOULD ATTEND

The course is specially designed for **REGISTRATION FEE** professional engineers of both civil and The registration fee is free for the participants "SLOPE STABILITY ANALYSIS FOR CIVIL mining engineering. The course includes real field examples of slopes and their solution using the commercial softwares. The course will help the professional engineers in getting the confidence of design, construction and maintenance of check dams, tailing dams and ash ponds.

RESOURCE PERSONS

The resource persons includes academician and professionals from NIT, IIT and other central government institutions.

VENUE

The short term course will be conducted in Ph: 91-9778548959(M) Civil engineering department, National E-mail: equeen@ nitrkl.ac.in Institute of Technology, Rourkela, Odisha-769008

ACCOMMODATION

Free accommodation will be provided in the Institute on twin sharing basis with accommodation and fooding.

IMPORTANT DATES Submission of Application form : 26thth September 2016

TEQIP-II Sponsored Short term Course on

from the Industry. However, the application must be duly forwarded by the competent authority of the organizations.

CONTACT ADDRESS

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Dr. Sk. Md Equeenudin

Department of Earth & Atmospheric science.

& MINING ENGINEERS"

Sept 28-30, 2016

Registration Form

Name(s)
Affiliation(s)
Address
Phone/Fax
Email
Date:Signature:

Signature and seal of

Forwarding Authority