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Short Courses 2014-16

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Short Courses 2014-16

21st December 2014

Meeting of Forum on Promotion of Soil Dynamics in India

**Amit Prashant
IIT Gandhinagar**

Why short courses

- Promoting soil dynamics in research agenda of the country
- Improving state of practice involving soil dynamics

Short Courses at IIT Gandhinagar

Date	Title
February 2011	Geotechnical Aspects of Earthquake Engineering
February 2012	Geotechnical Aspects of Earthquake Engineering
April 2012	Finite Element Method: Constitutive Modelling and Applications
November 2012	Seismic Design of Buildings
February 2013	Finite Element Method: Constitutive Modelling and Applications
March 2013	Geotechnical Aspects of Earthquake Engineering
October 2013	Seismic Design and Earth and Rock-fill Dams
January 2014	Soil-Structure-Interaction: Computer Applications and Material Models
February 2014	Seismic Design of Reinforced and Confined Masonry Buildings
October 2014	Geotechnical Aspects of Earthquake Engineering

Example Short Course Topics

- Basics of Soil Dynamics
- Machine Foundations: Analysis and Design
- Soil-Structure-Interaction (including dynamic response)
- Dynamic Behaviour of Soils
- Geotechnical Testing Methods – Dynamic properties
- Geotechnical Aspects of Earthquake Engineering
- Seismic Design
 - Shallow or Deep foundations
 - Dams and Embankments
 - Retaining Structures

Course Types

- For Industry and Academia
 - Well structured content
 - Simple and easy to understand
 - Interpretation of codes
 - Applications and Case studies
 - Nuances of practice
- For Academia only
 - Fundamental versus advanced topic
 - Well structured content
 - Literature review

Three Year Plan: 2014-16

- Collect interest groups within India
 - Identification of interested colleagues
 - Courses at different IITs and IISc
- Networking with interested experts abroad
 - Members of Forum and their availability
- Target of minimum Six courses per year
 - Minimum Two per year from IIT Gandhinagar
- Promoting other local colleges to conduct similar courses

Funding Aspects

- Treat people well
- Expenditure
 - Average Rs 2000 per day per person on publicity, local hospitality and resource material
 - Travel and hospitality of Instructors
- Funding Source
 - Course fee
 - Sponsorship

Thank You...

Amit