

SPONSORSHIP CERTIFICATE

Certified that we sponsor Dr/Mr/Ms. _____

for participation in the short term course titled **Geosynthetics as Modern Civil Engineering Construction Materials** being conducted at Department of Civil Engineering IIT Madras during February 05-10, 2018.

Date: Signature and seal of
Principal/Head of Institution

Place:

**Applications should reach before
15th December 2017**

Please send the applications to:

Prof. K. Rajagopal
Department of Civil Engineering
Indian Institute of Technology Madras
Chennai 600 036

Phone: (044) 2257-4263
Fax: (044) 2257-4252
E-mail: gopalkr@iitm.ac.in

COURSE FACULTY

The lectures will be delivered by renowned geotechnical faculty members from IIT Madras and other reputed institutes in India. Some lectures will also be delivered by international speakers from Korea, Taiwan, US, etc. Some guest lectures by prominent practicing engineers will also be arranged.

ELIGIBILITY AND REGISTRATION

This course is open to teachers of Engineering colleges recognized by AICTE and having an undergraduate degree in Civil Engineering. The number of participants will be restricted as per the prevailing QIP norms. The participants are entitled for 3-tier AC train fare by the shortest route.

BOARDING AND LODGING

Boarding and lodging (twin sharing basis) facilities will be provided at the Taramani Guest House of the Institute.

IMPORTANT DATES

Receipt of duly filled application form and sponsorship certificate	15-12-2017
Intimation of selection to the participants by e-mail	20-12-2017
Confirmation of participation by the applicants by e-mail	25-12-2017

AICTE Quality Improvement Programme
IIT Madras

Geosynthetics as Modern Civil Engineering Construction Materials

February 05-10 2018



Coordinators
Prof K. Rajagopal
&
Dr. Dali Naidu Arnepalli



**Department of Civil Engineering Indian
Institute of Technology Madras
Chennai 600036**

Introduction

The geosynthetics are extensively being used in construction of several civil infrastructure and geo-environmental protection projects in the country. The geosynthetic products are made of different types of polymeric and natural materials (coir, jute etc.) for their applications in Civil, geotechnical & geo-environmental engineering. Although, these products are popularly used in various infrastructure projects in India, most engineering colleges do not offer basic fundamental courses related to this area due to the lack of expert faculty.

With this in view, this course is designed to train the teachers of various technical institutions to understand the geosynthetics as modern construction materials & offer relevant courses in this upcoming area. This course will also expose the participants to the recent advances and developments in the area geosynthetics.

Objectives & Methodology

The primary objective of the short course is to introduce the geosynthetics as modern construction materials, their design concepts and recent trends and developments in the field of geosynthetics to the teachers of various technical institutions and to expose them to the current field practice in various infrastructure projects in India and abroad.

This will also enable college teachers to offer basic courses or to guide undergraduate final year projects and post graduate thesis in the area of geosynthetics. All the participants will be provided detailed lecture notes & educational CDs and samples of different geosynthetic products. The lectures during the course

will be delivered by the coordinators, invited guest faculty from other institutes and prominent practicing engineers in this field. Some lectures will also be delivered by experts from Korea, Taiwan & USA.

Venue

The venue for this short term course will be the **Lecture halls at IC&SR Building**, IIT Madras

Course Highlights

The scope of the course includes,

- Types of geosynthetics, their manufacturing and test methods
- Basic design principles of geosynthetics
- Geosynthetic applications in highway, railway and infrastructure developmental projects
- Construction of steep slopes/embankments on soft soils using geosynthetics
- Construction of heavy container yards using geosynthetics
- Role of geosynthetics in ground improvement and foundation on soft soils
- The application of geosynthetics as barrier materials in civil engineering
- Design concepts, construction of hazardous waste containment systems (engineered landfills) using geosynthetics.
- Long term performance and serviceability of geosynthetics under extreme climatic conditions.
- Erosion and coastal and river protection applications of geosynthetics.

DEPARTMENT OF CIVIL ENGINEERING, IIT Madras

A Short Term Course

Geosynthetics as Modern Civil Engineering Construction Materials

February 5-10, 2018

REGISTRATION FORM

1. Name:
2. Designation:
3. Educational Qualification:

Degree	Specialization	Year & University

4. Name of the sponsoring Organisation :
5. Teaching & Professional Experience :
Position held :
Nature of work :
6. Address for Communication:
(Including e-mail address)

Date:
Place:

Signature of the Applicant