

Selection and Mode of Payment

Selected candidates will be intimated through Email. They have to remit the necessary course fee to the Bank as per the details given below. Outstation participants requiring accommodation and boarding facilities have to pay Rs.4000/- in addition to the course fee.

Account Name	GIAN NITW
Account Number	62447453600
Bank	State Bank of Hyderabad
Branch	REC Warangal (NIT Campus)
Branch Code	20149
IFSC	SBHY0020149
MICR Code	506 004 011
SWIFT Code	SBHYINBB018

*Candidates registering early will be given preference in short listing process.

For any queries regarding registration of the course, please contact the Coordinators:

Course Coordinators

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Course details are also available at:

<http://www.gian.iitkgp.ac.in/files/brochures/BR1468834>
950GIAN_GIT_Brochure_VRM.pdf
<http://www.gian.iitkgp.ac.in/GREGN>

About GIAN Courses

MHRD, Govt. of India has launched an innovative program titled 'Global Initiative of Academic Networks' (GIAN) in Higher Education, in order to garner the best international experience into our system. As a part of this, internationally renowned Academicians and Scientists are invited to augment the country's academic resources, accelerate the pace of quality reforms and elevate India's scientific and technological capacity to global excellence.

About the Civil Engineering Department

The Department of Civil Engineering with four divisions offers an undergraduate program in Civil Engineering and seven postgraduate programs. The Department has experienced faculty and well established laboratories. The Department has collaborating with major government departments, industries and R&D organizations.

About the Institute and Warangal

National Institute of Technology (formerly Regional Engineering College), Warangal is the first among 17 RECs setup as joint venture of the Government of India and the state government. Over the years the college has established itself as a premier Institution imparting technical education of a very high standard leading to the B. Tech degrees in various branches of engineering and M. Tech and Ph. D programs in various specializations. With a view to give further impetus to the technological education, the Central Govt. upgraded the RECs into NITs, and conferred the Deemed to be University status.

Warangal is known for its rich historical and cultural heritage. It is situated at a distance of 140Km. from Hyderabad. Warangal is well connected by rail and road. National Institute of Technology campus is 2 Km. away from Kazipet railway junction and 12Km. away from Warangal railway station. Participants are advised to alight either at Kazipet or Warangal depending upon the train of travel. The local weather during December is cold. The average temperature will be about 30 degree Centigrade during day and about 20 degree Centigrade during night



Two Week GIAN Course On

**Ground Improvement Techniques
(Classification, Case Studies and Trends)**

30 August- 9th September 2016

Call for Registration and Participation

International Faculty

Prof. Hemanta Hazarika
Department of Civil & Structural Engineering
Kyushu University, Fukuoka,
Japan

Coordinators

Dr. V. Ramana Murty
Dr. G. Kalyan Kumar
Dr. Rakesh J. Pillai

Organized by

DEPARTMENT OF CIVIL ENGINEERING
NATIONAL INSTITUTE OF TECHNOLOGY
WARANGAL-506004
TELANGANA

Overview

Ground improvement is one of the basic requirements of many Civil Engineering construction projects. Improving the ground permits construction on problematic soils by changing their characteristics and strength. With the introduction of Japanese high speed railways (Shinkansen) in India, ground improvement will play a significant role in the construction and infrastructure development in India.

This course focuses on the principles of various ground improvement techniques developed in Japan, Asia and the rest of the world. The course will encompass the understanding of the problems facing geotechnical researchers and engineers working in the field of ground improvement, and will also cover the recent advances in the techniques available to them. The course contents consist of three parts. Part I focuses on the approaches for ground improvement geo system dividing the each technique in various groups and mechanics involved in each technique. Part II describes many case histories from Japan and other Asian countries based on the tutors' experiences of working in various ground improvement projects and their implementation. Part III focuses on the new applications and trend of the ground improvement geo system including recycling, geo environmental consideration and preservation of the world cultural heritage.

This course targets the beginners and the intermediate level practitioners who are dealing with geotechnical construction projects or who have interest in the development and application of ground improvement techniques. Engineers and researchers will find it helpful in developing, advancing and applying the techniques in the field.

In this course, ground improvement techniques, their theoretical background, methods adopted in a particular situation and accomplishment of the projects will be described in an easily understandable way. This course helps students, researchers and engineers to understand what is ground improvement, principles of the improvement methods considering the geological and geotechnical background, how they are executed in the site, basis of selection of a particular ground improvement technique in a project, and the cost-performance of such methods, etc.

The course will be delivered by expert who had many years of practical and consulting experiences as well as experiences on research, development and, execution of ground improvement projects in Japan and other Asian countries.

Course details

Part I: Approches for Ground Improvement

Part II: Case Histories of Ground Improvement Techniques

Number of participants for the course will be limited to 50.

International Expert:



Prof. Hemanta Haza, Professor in the Department of Civil Engineering, Kyushu University, Fukuoka, Japan. His research interests include soil-structure interaction, stability of soil- structures during earthquakes and tsunami, ground improvement, application of recycled waste and lightweight materials in constructions, stability of cut slopes, and landslides and protection against them.

Institute Expert:



Dr. Ramana Murty, is an Associate Professor of Civil Engineering at NIT Warangal. His research interests are Ground Improvement, Expansive soils and waste material utilization.



Dr. Kalyan Kumar is an Assistant Professor of Civil Engineering at NIT, Warangal. His research interests are Soil Dynamics, Seismic hazard, Seismic microzonation, Disaster Management and Subsurface Investigation.



Dr. Rakesh J. Pillai, is an Assistant Professor of Civil Engineering at NIT, Warangal. His research interests are Soft clay engineering, Cyclic behavior of clays, Constitutive modelling and Tunneling.

Who can participate?

Registration is open to:

- Field engineer or research scientist working in the fields of Civil and Geotechnical Engineering.
- Student or faculty from academic institution interested in the area of ground modification and construction practices in difficult ground.

How to Register?

Stage -1:

Web (Portal) Register: Visit GIAN Website at the link: <http://www.gian.iitkgp.ac.in/GREGN/index> and create login User ID and Password. Fill up the blank registration form and do web registration by paying Rs 500/- online through Net Banking / Debit / Credit card. This provides him/her with life time registration to enroll in any number of the GIAN courses offered.

Stage -2:

Course Registration (Through GAIN Portal): Log in to the GIAN portal with the user ID and password created. Click on 'Course Registration' option given at the top of the registration form. Select the course titled "**Ground Improvement Techniques (Classification, Case Studies and Trends)**" from the list and click on 'Save' option. Confirm your registration by Clicking on 'Confirm Course'.

Registration Fees:

Faculty and scientists	Rs. 4000/-
Participants from industry/ Training organizations/ consultancy firms	Rs. 10000/-
Students and research scholars	
• Without award of grade	Rs. 1000/-
• With award of grade	Rs. 2000/-
Student participants from abroad	USD 100
Other participants from abroad	USD 500

The registration fee includes instructional materials, tutorials, laboratory and computer use, free internet facility, working lunch, mid sessions tea and snacks. Outstation participants will be provided accommodation and boarding in visitors Block/Hostel in the campus on payment.