International Training Course
on

LAndslide Risk Assessment and Mitigation
LARAM-India 2020

February 17-22, 2020

Department of Civil Engineering
IIT Roorkee, Roorkee-247667, INDIA

Organised by

IIT Roorkee
India

Indian Geotechnical Society
Roorkee Chapter

UNIVERSITÀ DEGLI STUDI
DI SALERNO
University of Salerno
Italy

NTNU
Kunnskap for en bedre verden
Norwegian University of Science and Technology, Norway

Sponsored by

सत्यमेव जयते
Department of Science and Technology
Govt. of India

NDMA
National Disaster Management Authority
Govt. of India

PREAMBLE

Landslides are one of the most common major natural disasters attacking the hill regions causing loss of human life, fertile soil, and pastureland along with destruction of property and infrastructure. They may cause formation of landslide dam sudden failure of which may inundate the downstream area. Earthquakes, rainfall, instability caused due to change in stabilised slope profile, construction of infrastructural activities like roads, and unplanned urbanisation are some of the major factors responsible for initiating the landslides. With fast developmental and infrastructural activities occurring in Himalayan region there has been an unprecedented increase in the frequency of landslides during recent past. It is of utmost importance that engineers, architects, planners and construction personnel be aware of the analysis and control measures required to mitigate the landslide problems.

The International School on "**Landslide Risk Assessment and Mitigation – LARAM**" founded by the Geotechnical Engineering Group of the University of Salerno in 2005, was envisioned to offer a permanent venue for PhD students, young researchers and renowned experts to interact and exchange ideas in the field of landslide risk. The main objectives of LARAM are to develop high educational interdisciplinary programs for assessing, forecasting and mitigating landslide risk over large areas; and to promote the creation of training programs aimed at solving real landslide risk problems using the most advanced theories and methodologies in the fields of geotechnical engineering, geomechanics, geology, physical geography, mathematical modelling, monitoring, GIS techniques, risk management and other relevant topics. These aims are achieved by means of yearly cycles of lectures, seminars, workshops and conferences.

LARAM-India is an initiative jointly conceived by the University of Salerno (UNISA), the Norwegian University of Science and Technology (NTNU), the Indian Institute of Technology Roorkee (IIT-Roorkee), and the Indian Geotechnical Society (IGS). In addition the course is supported by Department of Science and Technology, Government of India, New Delhi. The aim of this initiative is to develop and conduct a training course dealing with landslide risk management, to be delivered by renowned international landslide experts in India.

LARAM-INDIA COMMITTEE

Representatives from: UNISA, NTNU, IITR and IGS

KEY SPEAKERS

The participants will have opportunity to interact and discuss the landslide mitigation related issues with the experts working at International and National level. Majority of the speakers will be from Italy, Norway and Switzerland. Few experts from India will also be taking lectures. The details will be available at http://www.laram.unisa.it/school/2020india/2020india

WHO CAN ATTEND THE COURSE?

The LARAM class will be composed by **40** selected participants:
Indian PhD students, Young PhD holders and Young Professors (**10** participants)
Non-Indian PhD students, Young PhD holders and Young Professors (**10** participants)
Indian Professionals (**20** participants)
Note - Young: less than 40 years at the date of the LARAM Course, February 2020.

SELECTION

The selection of the participants will be based on criteria that are in line with the well-establish selection procedure of the LARAM School (http://www.laram.unisa.it/). The selected participants will pay their own travel and accommodation expenses, as well as a registration fee.

REGISTRATION FEE

The details of fee are as follows:

Category of participant	**Registration fee (Non-Refundable)**	**Staying charges: Institute guest house**
Indian PhD students	INR 3000 (To be paid in advance)	INR 750 per day per room; One-day advance is compulsory; Rest to be paid in the guest house; *Two students can share one room*.
Indian Young researchers (PhD) and Young Faculty	INR 5000 (To be paid in advance)	INR 750 per day per room; One-day advance is compulsory; Rest to be paid in the guest house;
International PhD students,	INR 5000 (To be paid in advance)	INR 750 per day per room; One-day advance is compulsory; Rest to be paid in the guest house;
International Young researchers (PhD) and Young Faculty	INR 10000 (To be paid in advance)	INR 750 per day per room; One-day advance is compulsory; Rest to be paid in the guest house;
Indian Professionals	INR 10000 (To be paid in advance)	INR 750 per day per room; One-day advance is compulsory; Rest to be paid in the guest house.

The fee includes meals/ tea/ snacks /site visit / course material during the course. The fee may be paid through bank draft drawn in the name of "**IIT ROORKEE**" and payable at Roorkee. The fee can also be transferred directly to the IIT Roorkee bank account electronically. The details of the transactions should be immediately sent to the organisers. The bank account details of IIT Roorkee are given in Annexure-1.

ACCOMMODATION

The accommodation is being arranged by the organisers in the institute guest houses. In case, a participant wish to make his or her own arrangements for the stay, the organisers should be informed well in advance.

CORRESPONDENCE

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ABOUT ROORKEE

Roorkee is in the State of Uttarakhand (India) and is located close to the foothills of Himalayas. Roorkee Railway Station is on the main line of Northern Railway having direct links to Delhi, Mumbai, Kolkata and Amritsar. Roorkee can also be reached via Dehradun airport which is about 60 km away. The place is also within easy reach from Delhi by road (180 km) and is located on Delhi - Haridwar and Delhi - Dehradun bus routes Roorkee is ideally located near several tourist places like Dehradun (70 km), Mussoorie (100 km), Haridwar (32 km) and Rishikesh (52 km). The weather at Roorkee during the month of February is pleasant with maximum temperature about 25°C and minimum about 10°C.

ANNEXURE-I, IIT Roorkee Bank Account Details

1.	Type of Registration	:	***Registered Societies (Govt. Autonomous Bodies)***
2.	Agency Name	:	***INDIAN INSTITUTE OF TECHNOLOGY, ROORKEE***
3.	Act/ Registration No.	:	***ACT NO. 16 OF 2002***
4.	Date of Registration (DD/MM/YYYY)	:	***28.3.2002***
5.	Registering Authority	:	***DIRECTOR, INDIAN INSTITUTE OF TECHNOLOGY, ROORKEE***
6.	State of Registration	:	***UTTARAKHAND***
7.	TIN No.	:	***---NIL---***
8.	TAN No.	:	***MRTI00281B***
9.	Address Line 1	:	***INDIAN INSTITUTE OF TECHNOLOGY***
10.	Address Line 2	:	***ROORKEE***
11.	Address Line 3	:	***ROORKEE***
12.	City	:	***ROORKEE***
13.	State	:	***UTTARAKHAND***
14.	District	:	***HARIDWAR***
15.	Pin Code	:	***247667***
16.	Contact Person	:	***DEAN SRIC, INDIAN INSTITUTE OF TECHNOLOGY, ROORKEE***
17.	Phone :	:	***01332-285245***
18.	Email	:	***dsric@iitr.ernet.in***
19	**Bank Details:**		

NAME OF THE BANK	: ***PUNJAB NATIONAL BANK***
BRANCH OFFICE	: ***INDIAN INSTITUTE OF TECHNOLOGY ROORKEE-247667.***
ACCOUNT NAME	: ***RTGS FUND, IITROORKEE***
ACCOUNT NO:	: **4044000100151240**
BRANCH CODE.	: 4044
IFC CODE	: PUNBO404400
MICR CODE	: 000024000
PAN NO.	: **AAALI0033R**
TAN NO.	: MRTI00281B
Service Tax No.	: **AAALI0033RST001**