



International Training Workshop

Geohazards Risk Assessments using Geospatial Tools and Techniques along the CPEC

GIS & Space Application in Geosciences Lab (G-SAG), National Centre of GIS and Space Applications (NCGSA), and National Centre of Excellence in Geology, University of Peshawar, Pakistan
(8-11 March, 2022)

BACKGROUND

GIS and Space Applications in Geosciences (GSAG) Laboratory is established at the National Centre of Excellence in Geology, University of Peshawar, in affiliation with the National Center of GIS and Space Applications (NCGSA). This lab aims to promote and apply geo-information applications in geosciences mainly, geohazards assessment, geological applications, water and forests resources. GIS and remote sensing are becoming effective and efficient tools in the exploration, monitoring, and sustainable management of natural resources. Growing remote sensing data with enhanced capabilities and GIS techniques, provide opportunities for their utilization in various fields of geohazards including GIS/remote sensing based spatial analysis for natural hazards. Besides scientific research in the lab themes, one of the important components of the GSAG is the capacity building of professionals, scientists and researchers in GIS and Remote Sensing applications for geosciences. Under this component, the GSAG-L is organizing a comprehensive training workshop on “**Geohazards and Risk Assessment using geospatial tools and techniques along the CPEC**” with national and international partners. The resource persons are nationally and internationally renowned scientists and practitioners in the field of natural hazard assessment and mitigation. The training shall be focused on the tools and techniques for geohazard assessment, mainly landslides and earthquakes. The training shall assist to provide a platform to the relevant professionals and postgraduate students to grasp the theoretical background of geo-information data and analysis tools and their potential applications in geosciences.

CONTENTS

- Natural hazards and associated risks in Pakistan
- Landslide types and causes
- GIS-based Spatial Analysis for Natural Hazards Assessments
- Landslide inventory, susceptibility and hazard assessment
- Engineering solutions for seismic hazard mitigation in the mountainous region
- Community based Disaster risk mitigation, north Pakistan.
- Debris flow and hazard- mapping and monitoring.

PARTNERS

- Karakoram International University (KIU), Gilgit Baltistan
- China-Pakistan Joint Research Centre on Earth Sciences (CPJRC), Islamabad, Pakistan.
- Centre for Disaster Resilience, Faculty of Geoinformation and Earth Observation, University of Twente, The Netherlands.

ORGANIZING COMMITTEE

- **Dr. Muhammad Shafique**
(Associate Professor, NCEG, University of Peshawar)
- **Dr. Khaista Rehman**
(Associate Professor, NCEG, University of Peshawar)
- **Mr. Ghazanfar Ali Khattak**
(Assistant Professor, NCEG, University of Peshawar)
- **Mr. Muhammad Suliman**
(Research Associate, G-SAGL, NCEG, UoP)

RESOURCE PERSONS

- **Prof. Dr. Atta Ullah Shah** (Vice Chancellor, Karakoram International University, Gilgit Baltistan)
- **Prof. Mark Van der Meijde** (University of Twente, Netherlands)
- **Prof. Dr. Chen Ningsheng** (Institute of Mountain Hazards and Environment, Chinese Academy of Sciences)
- **Prof. Yong Nie** (Institute of Mountain Hazards and Environment, Chinese Academy of Sciences)
- **Prof. Chen Ning Sheng** (CPJRC & Institute of Mountain Hazards and Environment, Chinese Academy of Sciences)
- **Dr. Muhammad Shafique** (NCEG, University of Peshawar)
- **Dr. Khaista Rehman** (NCEG, University of Peshawar)
- **Mr. Ghazanfar Ali Khattak** (NCEG, University of Peshawar)
- **Dr. Muhammad Ali** (NCEG, University of Peshawar)
- **Dr. Alam Sher** (Home and Tribal Affairs Department)

WHO SHOULD ATTEND?

The training workshop is designed for professionals and post-graduate students having background knowledge of GIS and Remote Sensing.

Registration Deadline

1st March, 2022

Registration Fee:

Professionals: Rs 5000/=
Students: Rs 2500/= (No. of Participants 30)

Account Details:

Account # 266 922 313
Account Title: NCGSA GSAG
Bank/Branch Code: UBL/1486

Registration link is given on the NCEG site

<http://nceg.uop.edu.pk/>

Contact info:

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