

14th GIS For Disaster Risk Management Course

01. Schedule

4-15 November 2019 | Bangkok, Thailand



02. Course Overview

Geographical Information System (GIS) is an excellent tool to assess and analyze disaster risk. ADPC, in collaboration with the Asian Institute of Technology (AIT), the University of Twente's Faculty of Geo-Information Science and Earth Observation (ITC), and UNOSAT from the United Nations Institute for Training and Research (UNITAR) designed the Training Course on GIS for Disaster Risk Management (DRM) for persons who are interested to assess and analyze data and information using GIS tools.

The course aims to provide an overview of the use of spatial information in disaster risk management. The course not only explains what spatial data is and how it is collected, but also emphasizes on the use of the data during pre- and post-disaster management such as in early warning systems and hazard, vulnerability, risk, and damage assessments as well as in the design of risk reduction measures.

The good thing about this course is that you don't need to be an IT or a GIS person. You just need to be a DRM person with computer background and you are ready to learn and work around the software and GIS tools the course provides.

03. Course Objectives

Upon completion of this course, participants should be able to:

- Understand the concept of Disaster Risk Assessment, Reduction and Management
- Describe and utilize spatial data, geographic information systems (GIS) and remote sensing in disaster risk assessment and management
- Utilize existing sources of historical disaster information
- Apply GIS/remote sensing in hazard, vulnerability, and risk assessment
- Utilize risk information in emergency preparedness planning
- Visualize hazard and risk information
- Apply GIS/remote sensing to pre & post-disaster damage assessment

04. Course Content

In order to achieve the objectives, the course will have the following modules:

Module: Disaster Management Related Concepts, Terminologies, and Frameworks

This module orients participants about the disaster related basic concepts and terminologies, disaster risk trends, climate change and disaster, major frameworks, approaches, tools, and methods for disaster risk reduction and climate change adaptation.

Module: Overview of GIS and Remote Sensing

This module discusses basic concepts of GIS and remote sensing and their components as well as introduction to spatial information technology and handling spatial information using GIS software as a tool to support disaster risk assessment and management.

Module: Pre-disaster risk assessment

This module discusses risk assessment components including hazard assessment, elements at-risk, exposure assessment, vulnerability assessment, coping capacity, types and methodology of risk assessment including indicator- and modeling- based approaches, risk evaluation, and cost-benefit analysis.

Module: Post-disaster impact and damage analysis

This module discusses the use of remote sensing data/satellite imagery for disaster relief and recovery, impact analysis and preliminary damage assessment, and building damage assessment.

Module: Risk information and communication for risk reduction planning

This module discusses how risk result/information can be communicated effectively by visualization of risk information, map interpretation, web portal in order to raise disaster risk awareness for risk reduction planning. Application of risk assessment such as risk-sensitive land use planning will also be discussed in this module.

Module: Mini projects

This module provides participants with the opportunity to apply their learning from the 2-week training.

05. Methodologies

Various trainee-centered methodologies shall be employed:

- Lectures
- Presentations
- Role-Plays
- Group Exercises

The course shall be conducted in English.

06. Target Participants

The course is open to all participants who are working or will be working in the organizations where spatial information is used or considered to be used for the purpose of disaster risk assessment, disaster risk management, or disaster risk reduction. There is no prerequisite GIS and remote sensing knowledge for participant who is interested in this course.

07. Registration

Interested individuals and organizations can register online at www.adpc.net/apply.

For more information about the course, you may also contact Thanyaphat Sirasakpurekul at thanyaphat@adpc.net and telephone numbers +66 22980681 to 92 loc. 134.

Due to limited slots for this course, interested parties must register on or before October 7, 2019 while payment must be made by October 21, 2019.

08. Course Fee

Investment for the course is USD2,375. This is inclusive of cost of instruction; morning and afternoon snacks including lunch for ten (10) days; and training kits which include e-tablets that the participants can keep after the course. Special discount rates and packages may apply:

- 10% discount for women participants
- 10% discount for self-paying participants (over and above the 10% discount for women)
- 10% discount for each participant sent by an organization (minimum of three participants)

09. Contact Information

Elisa Schmidt

ADPC Academy

Email: academy@adpc.net or elisa.schmidt@adpc.net

URL: www.adpc.net/academy

10.

The course's continued success hinges on its highly competent faculty and resource persons. The pool of experts not only have solid and practical experience in all facets of GIS4DRM but have excellent capacity to transfer the knowledge and skills to the participants.



adpc Asian Disaster Preparedness Center

979/69, SM Tower, 24th Floor, Paholyothin Road, Samsen Nai, Phayathai, Bangkok 10400, Thailand

