

ABOUT THE ORGANISERS

SAARC DISASTER MANAGEMENT CENTRE

SAARC Disaster management Centre was set up in 2006 at the premises of National Institute of Disaster Management in New Delhi. The centre has the mandate to serve eight Member countries of South Asian Association for Regional Cooperation (SAARC), Afghanistan, Bangladesh, Bhutan, India, Maldives, Nepal, Pakistan and Sri Lanka - by providing policy advice and facilitating capacity building services including strategic learning, research, training, system development and exchange of information for effective disaster risk reduction and management in South Asia. It carries out studies research, organizes workshops and training programme, published reports, documents and provides various policy advisory services to the Member Countries.

INDIAN INSTITUTE OF REMOTE SENSING, DEHRDUN

Indian Institute of Remote Sensing is a leading academic Institute in India with long experience of training more than 8000 persons from India and abroad in last 43 years in collaboration with ITC and many other international organizations. Since 2001, it has been offering M.Sc./ PG Diploma/Certificate courses in "Geoinformatics in Geohazards" in collaboration with ITC Netherlands. It has developed excellent curricula for its programmes and has been offering various short courses related to disaster management in collaboration with ADPC and UN agencies.

CLIMATE

The climate of Dehradun is moderate due to its location at the foot of the Himalayas. During the month of August there will be rains and the temperature will range between 16⁰C to 36⁰C. Therefore light woollens and an umbrella is recommended.

For details contact:



Director,
SAARC Disaster Management Centre,
NIDM Building, IIPA Campus,
I.P. Estate, ITO Ring Road, New Delhi-110002.
Phone: 0091-11-23702445
Fax: 0091-11-23702446
E-mail: director.sdmc@gmail.com,
Webstie: www.saarc-sdmc.nic.in

Dr. P. K. Champati ray,
Head-Geoscience Division,
Indian Institute of Remote Sensing (NRSC/IRSO),
4, Kalidas Road, P.B. No. 135,
Dehradun-248001, Uttrakhand
Phone: 0091-135-2524151
Fax: 0091-135-2741987
E-mail: champati_ray@rediffmail.com,



SAARC Training Programme on GEOINFORMATICS & SPATIAL INFORMATION FOR DISASTER MANAGEMENT

August 02-07, 2010

**Venue
Indian Institute of Remote Sensing,
Dehradun, Uttrakhand (India)**

**for
Professionals/Middle Level Executives/Staff involved in
Disaster Management**

**Organized by
SAARC Disaster Management Centre,
New Delhi (India)**

**In collaboration with
Indian Institute of Remote Sensing,
Dehradun, Uttrakhand (India)**

BACKGROUND

Despite the serious human efforts, the rise in socio-economic toll of disasters highlights the need for organized and continuous efforts for effectively and efficiently managing the disaster situations. In the recent times it has been observed that during important disasters a lot of critical information has been generated using Earth Observation (EO) and Geoinformation (GI) techniques, thereby making it imperative that a large section of stake holders involved with all aspects of disaster management need to be trained to take full advantage of this timely technical information disseminated by national and international agencies. It is important that organizations involved with disaster management institutionalize the mechanism to assimilate such information and disseminate to all during the crisis time so that in every stage of disaster management starting from preparedness to relief rehabilitation stage, the delivery mechanism improves and mitigation measures are well focused. Additionally, in recent years there has been tremendous advancement in EO capabilities, thereby making it imperative to get abreast of new technology and its application potential in disaster management.

COURSE OBJECTIVES

The main objective of the course is to develop a cadre of specialists who can assimilate the EO based solution in their operations related to disaster management. Also it will educate how to look for EO based data and solutions in public domain (Internet) and develop in-house capability to integrate with other ancillary data and provide information which is most authentic and accurate. It will enhance the capability during prevention stage by enabling important tasks such as risk assessment in a shortest possible time and provide spatial inputs for all round decision making.

WHO SHOULD ATTEND

Professionals/Middle Level Executives/Staff involved in disaster management with some background/exposure in Geo-Information Technology in member countries.

COST OF COURSE

There is no course fee for government sponsored candidates from member countries. However, as per the SAARC Harmonized Provisions for the Regional Centres, the travel expenses for the participants shall be borne by the member countries whereas local hospitalities like hotel accommodation, food and local transport shall be borne by the SAARC Disaster Management Centre.

DURATION OF COURSE

Duration of course would be for a week, 02-07 August, 2010.

COURSE CONTENTS

It will cover all aspects of latest advances in EO systems, capabilities and existing services including Web GIS based dissemination with case examples from recent hazards of the

region. Attempts will be made to demonstrate the role of GI technology in each stage of Disaster Management (Prevention, Preparedness, during event, Relief and Rehabilitation) for each major type of disasters using lectures as well as hands on experiences. Emphasis would be given on advance topics such as Radar remote sensing (for mainly flood and earthquake studies) and web based dissemination using Web GIS. The training programme will focus on the following topics:-

- Ø Recent trend in EO techniques and applications for Disaster Management
- Ø Spatio-temporal analysis and modelling
- Ø GPS application for earthquake studies
- Ø Agricultural drought monitoring and assessment
- Ø Landslide hazard modelling and vulnerability analysis and mitigation measures
- Ø Potential seismic hazard assessment using Geo-informatics tools
- Ø Flood monitoring and mapping using SAR data, vulnerability analysis and damage assessment
- Ø Glacier hazard and GOLF assessment
- Ø Remote sensing applications for cyclone and tsunami disaster
- Ø Overview of internet GIS and webGIS

PRACTICALS

Practical's will include:

a) Remote sensing data processing and analysis; b) GIS applications; c) GIS application for crustal deformation studies; d) Landslide hazard assessment and monitoring; d) Seismic hazard case studies; e) Flood hazard case studies; f) GLOF-Case studies; g) Cyclone/Tsunami case studies.

TRAINING VENUE

Indian Institute of Remote Sensing (NRSC/ISRO), 4-Kalidas Road, Dehradun, Uttarakhand, India.

ADUIDENCE

20 Professionals/Middle Level Executives/Staff involved in disaster management with some background/exposure in Geo-Information Technology in member countries.

CERTIFICATE

Participants completing the course successfully will be awarded with certificate.

LANGUAGE

Teaching medium is English and all course materials will be provided in English only.