



ONLINE SHORT COURSE

ON

**“SPACE TECHNOLOGY FOR DISASTER
MANAGEMENT”**

Organized By

Conducted By



**Centre for Space Science and Technology Education in
Asia and the Pacific (CSSTEAP)
(Affiliated to the United Nations)
IIRS Campus, 4, Kalidas Road, Dehradun, India
www.cssteap.org**



**Indian Institute of Remote Sensing (IIRS)
Indian Space Research Organisation (ISRO)
Department of Space, Government of India
4, Kalidas Road, Dehradun, India
www.iirs.gov.in**



**Through: Virtual Platform
April 19 – 30, 2021**



INTRODUCTION

Natural disasters are becoming more frequent and intense across the globe. According to the latest report by UN-ESCAP, Asia-Pacific region is the most disaster-prone region in the world, and the region faces major disaster problems in the form of environmental hazards, geological hazards and hydro-meteorological hazards, and causing massive damage to environment, infrastructure, economy and society. To address the challenge posed by disasters, the international community adopted the Sendai Framework for Disaster Risk Reduction (DRR) 2015-2030 at the Third UN World Conference on DRR in March 2015 in Sendai, Japan. The space based inputs can become an important tool in building resilience and addressing the priorities outlined by Sendai framework for DRR. Space technology can be useful particularly in the risk assessment, monitoring, response, mitigation and preparedness phases of disaster management, including early warning.

ABOUT CSSTEAP AND IIRS

CSSTEAP was established in India in November 1995 with its headquarters in Dehradun and over the past 25 years, the center has emerged as a Centre of Excellence in capacity building in the field of space science and technology application. The 1st campus of the Centre was established at Dehradun, India and is hosted by Indian Institute of Remote Sensing (IIRS), a constituent unit of Indian Space Research Organisation (ISRO). CSSTEAP has been imparting training and educational programmes related to RS & GIS, Satellite Communication, Satellite Meteorology, Space Science, Global Navigation Satellite Systems, and Small Satellite Mission, helping participants in developing research skills through its Master Degree, Post Graduate and Certificate programmes.

IIRS (established in 1966), a constituent unit of Indian Space Research Organization (ISRO), is a key player for training and capacity building in geospatial technology and its applications through training, education and research in Southeast Asia. The training, education and capacity building programmes of the Institute are designed to meet the requirements of professionals at working levels, fresh graduates, researchers, academia, and decision makers.

OBJECTIVE OF THE COURSE

The overall objective of this two weeks training programme is to generate awareness among users / researchers / professionals / decision-makers / academicians on Space technology and its applications for disaster management and in the line of implementing Sendai Framework for DRR. The participants will be familiarized with the Disaster Management concepts, conceptual frameworks and institutional mechanisms, application of space and geospatial technologies for pre- and post-disaster monitoring and mitigation such as early warning, hazard, vulnerability and risk assessment, damage assessment and other measures, data repositories and web portals for providing disaster related information. The course will include theory and hands on sessions to facilitate in-depth learning.

COURSE CONTENTS

First Week

- Overview of global framework for disaster risk reduction
- Overview of Climate Change and Natural Hazards
- Overview of geospatial technology for disaster management
- Satellite based communication and navigation for community level disaster management
- Geo-web portals and data repositories for providing disaster related information

Second Week

- Application of space technology in environmental disasters (forest fire, atmospheric etc.)
- Applications of space technology in geological hazards (earthquakes, landslides etc.)
- Applications of space technology in hydro-meteorological hazards (flood, drought, cyclones etc.)
- Community participation in disaster risk reduction
- Success stories of applications of geospatial technology in disaster management support

ELIGIBILITY

Master's degree in science or Bachelor's degree in engineering or equivalent qualification relevant in the field of study with at least 5 years of experience in teaching/research or professional experience in the field of natural resources or environment, e.g. agriculture, soils, forestry, ecology, geosciences, water resources, human settlement, land use planning, oceanography, environmental analysis, etc. (For candidates with higher qualifications, the minimum experience may be relaxed). Basic knowledge in mathematics and/or statistics is essential. The course will be conducted in English, the candidate should have proficiency in English language.

COURSE FEE AND HOW TO APPLY

There is no course fee for applicants applying through proper channel. Applicants are requested to send the scan copy of their application forwarded by the Head of their respective organization / institution for consideration through e-mail at cssteap-admissions@iirs.gov.in.

Announcement of course: February 02, 2021

Last date for application (via e-mail): February 28, 2021.

CONTACT DETAIL

For any course related query, Kindly contact to

Dr. Arijit Roy

(Course Director)

(Email: arijitroy@iirs.gov.in; Ph: +91-135-2524370)

Mr. Hari Shankar

(Course Coordinator)

(Email: harishankar@iirs.gov.in; Ph: +91-135-2524330)

Indian Institute of Remote Sensing

4, Kalidas Road, Dehradun-248001,

Uttarakhand, India



**CENTRE FOR SPACE SCIENCE AND TECHNOLOGY EDUCATION
IN ASIA AND THE PACIFIC**
(AFFILIATED TO THE UNITED NATIONS)

**APPLICATION FORM FOR SHORT COURSE ON
“SPACE TECHNOLOGY FOR DISASTER MANAGEMENT”**

April 19 - 30, 2021

Conducted by

Indian Institute of Remote Sensing, Dehradun, India

(Through Online mode)

**Last date for receipt of application: February 28, 2021
(Through e-mail: cssteap-admissions@iirs.gov.in)**

Affix
Recent Passport
Size Photograph

1. Name (Dr/Mr/Mrs/Miss):

2. Father's Name:

3. Date of Birth (DD/MM/YYYY): 4. Place of Birth:

5. Gender (Male/Female): 6. Nationality:

7. Contact Information: Present official Address (Valid until what date):

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.....

Home: Office:

Mobile: E-mail:

8. Permanent home Address (in your country):

.....
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Telephone: Alternate E-Mail (G-mail or Yahoo):

9. ACADEMIC QUALIFICATIONS:

Degree/(Bachelor/ Master)/ Diploma	Duration of Course (mention from which year to year)	University/ Institution Name	Year of passing	Grade/ Percentage	Major subjects/ specialisation

10. DETAILS OF EXPERIENCE:

(a) Present Position:

Organisation and Complete Address.....

Date of joining this Organisation (dd/mm/yyyy):

(b) Experience during past 15 years:

Name of the Organisation(s)	Position(s)/Post(s) held	Nature of work done	Duration

11. Have you done any other course from CSSTEAP (If 'yes'; please give details including the month & year)

.....

12. DETAILS OF PASSPORT: Please provide valid passport details below and if not holding a valid passport, please forward copy of the passport whenever available.

Passport Number	Place of Issue (City and Country)	Date of Issue	Passport Valid up to	Issuing Authority

13. DECLARATION BY THE CANDIDATE:

I have read the announcement brochure and the information provided in the application are correct.

Date :

Place:

Signature of Candidate

14. NOMINATING AGENCY CERTIFICATE:

Dr/Mr./Ms.....is nominated to attend the Short Course on “Space Technology for Disaster Management” to be conducted by Indian Institute of Remote Sensing, Dehradun, Uttarakhand, India during April 19 - 30, 2021 through online mode. It is envisaged to utilize his/her experience in specific tasks of our organization. He/She possesses adequate knowledge of English Language required for the course.

Date :

Place :

Signature:

Name in Capital Letters:

Designation :

Phone No :

Fax No :

Email :

(Official Seal of the sponsoring or nominating authority)

Please send the scan copy of application form duly signed by the nominating agency to the Course Director, DRR Course, Indian Institute of Remote Sensing (ISRO), Dehradun - 248001, Uttarakhand, India by through Email at cssteap-admissions@iirs.gov.in.