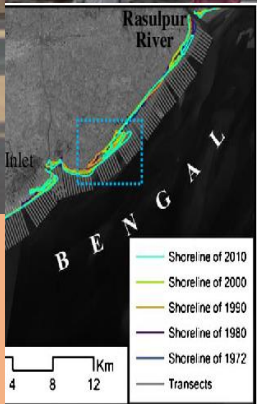




ONLINE SHORT COURSE
ON
“COASTAL ZONE MANAGEMENT IN
RESPONSE TO NATURAL HAZARDS AND
CLIMATE VARIABILITY”

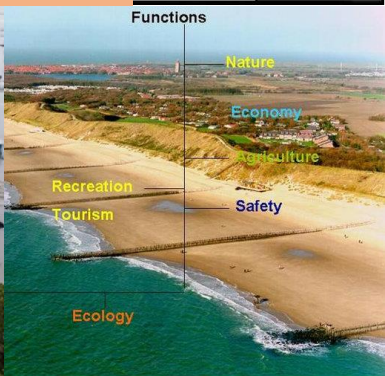
Organized By **Conducted By**



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
July 26 – August 06, 2021



INTRODUCTION

Sea level rise has been considered as one of the major threats to the low-lying coastal regions around the world. Sea level rise increases the vulnerability of the coastal zones which are already exposed to multiple hazards, including storms and storm induced flooding, erosion, tsunamis etc., and the impact of climate change increases the uncertainties and complexity of the scenario. Thus, the appropriate management of the coastal regions are vital for ensuring the environmental and economic stability of the coasts. The coastal management integrates the biological, physical, and policy sciences to form the adequate plans with maximum sustainability for protecting the coastal zones. The long term implications of such actions in response to the natural hazards and climate change are also of vital importance.

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 CSSTEAP programmes are executed by the faculty of Department of Space at campuses namely, Indian Institute of Remote Sensing (IIRS), Dehradun, Space Applications Centre and Physical Research Laboratory, Ahmedabad and UR Rao Satellite Centre, Bengaluru. The training programmes includes PG and Short Courses on RS & GIS, Satellite Communications, Satellite Meteorology and Global Climate, Space & Atmospheric Science, Global Navigation Satellite Systems, Small Satellite Missions and DRR regularly. Besides this many short courses, webinars, MOOC and workshops on various themes are also organized.

IIRS (established in 1966), a constituent unit of 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 provide an understanding on sea level rise in response to natural hazards and climatic variability and the importance of coastal zone management to the users / researchers / professionals / decision-makers / academicians. The participants will gain knowledge about the coastal management concepts, inundation due to tropical cyclones and tsunami, climate change, sea level rise, coastal vulnerability due to inundation and sea level monitoring using remote sensing products. The course will provide an understanding of the advantages of using remote sensing observations for coastal management and the areas of active research. The course will include theory and hands-on sessions to facilitate in-depth learning.

COURSE CONTENTS

First Week

- An introduction to ocean remote sensing
- An overview of Climate Change and Natural Hazards in context to ocean sciences
- An introduction to coastal zone management
- An overview of geospatial technology for coastal zone management
- Overview of remote sensing applications for coastal hazards

Second Week

- Coastal inundation due to tropical cyclones and tsunami
- Sea level rise in the climate change scenario
- Analysis of coastal vulnerability due to inundation
- Global and regional sea level monitoring using remote sensing data
- Generation of DEM of intertidal zone using Google Earth Engine

ELIGIBILITY

The applicants should have a 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 Marine Science, Earth Science, Oceanography, Fisheries, Environmental Science, and related fields. 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 15, 2021

Last date for application (via e-mail): June 20, 2021.

CONTACT DETAIL

For any course related query, Kindly contact to

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