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

Conducted By
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
June 14 – 25, 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.

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 zone 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 remote sensing observations for coastal zone 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
- Application 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.

CONTACT DETAIL
For any course related query, Kindly contact to
Dr. D. Mitra
(Course Director)
(Email: mitra@iirs.gov.in; Ph: +91-135-2524181)

Dr. Sachiko Mohanty
(Course Coordinator)
(Email: sachiko@iirs.gov.in; Ph: +91-135-2524178)

Indian Institute of Remote Sensing
4, Kalidas Road, Dehradun-248001,
Uttarakhand, India
APPLICATION FORM FOR SHORT COURSE ON
“Coastal zone management in response to natural hazards and climate variability”

June 14 - 25, 2021
Conducted by
Indian Institute of Remote Sensing, Dehradun, India
(Through Online mode)

Last date for receipt of application: April 15, 2021
(Through e-mail: cssteap-admissions@iirs.gov.in)

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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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:

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<th>Duration of Course (mention from which year to year)</th>
<th>University/Institution Name</th>
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10. DETAILS OF EXPERIENCE:
   (a) Present Position: .................................................................................................................................

Organisation and Complete Address: ...........................................................................................................
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Date of joining this Organisation (dd/mm/yyyy): ......................................................................................
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(b) Experience during past 15 years:

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11. Have you done any other course from CSSTEAP (If ‘yes’, please give details including the month & year):
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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.

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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 “Coastal zone management in response to natural hazards and climate variability” to be conducted by Indian Institute of Remote Sensing, Dehradun, Uttarakhand, India during June 14 - 25, 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: ____________________
Signature: ____________________
Place: ____________________
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, CZM Course, Indian Institute of Remote Sensing (ISRO), Dehradun - 248001, Uttarakhand, India through email at cssteap-admissions@iirs.gov.in.