CENTRE FOR SPACE SCIENCE & TECHNOLOGY EDUCATION IN ASIA AND THE PACIFIC

Announces

24th Post Graduate Course in Remote Sensing & Geographic Information System

conducted at

Indian Institute of Remote Sensing
Indian Space Research Organisation
Department of Space, Government of India, Dehradun, India
URL: www.iirs.gov.in

Academic Year
2019 - 2020
Governing Board Members and Special Invitees during 23rd Governing Board Meeting at New Delhi, December 10, 2018

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ITC (The Netherlands)

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Dr. A. Sendhil Kumar
Director, CSSTEAP, India

For further detail kindly see our website (www.cssteap.org)
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INTRODUCTION

Space science and technology plays a very important role in improving the quality of life of today’s human society for information and decision making. Most noticeable among these are communication, television, telemedicine, satellite navigation, remote sensing data, weather forecasting, disaster mitigation through emergency mapping, etc. All countries, irrespective of rich or poor, have realized the importance of space technology for improving the living conditions of their citizens. Therefore, all countries should have access to space technology and must share the equitable benefits. The global satellite data availability has made it possible for all countries to get benefits. However, a major precondition to successful space technology applications is the development of essential indigenous capabilities, particularly human resources. A consensus emerged within the international community that if effective assimilation and appropriate application of space technology are to succeed in the developing countries, efforts must be made at different levels for capacity building in space technology. Towards this, the United Nations General Assembly called for the establishment of Regional Centres for Space Science and Technology Education at the regional level in the developing countries. Under the auspices of the United Nations, through its Office for Outer Space Affairs (UN-OOSA), the six regional Centres established are: Asia and the Pacific (India), Latin America and the Caribbean (Brazil and Mexico) Africa (Morocco and Nigeria), West Asia (Jordan) and Regional Centre for Space Science & Technology in Asia and the Pacific (China). All the Centres are affiliated to the United Nations through UN-OOSA.

ABOUT REGIONAL CENTRE FOR ASIA AND THE PACIFIC IN INDIA

The Centre for Space Science and Technology Education in Asia and the Pacific (CSSTEAP) was established in India in November 1995 with its headquarters in Dehradun and is considered as the Centre of Excellence by UN-OOSA. The 1st campus of the centre was established in Dehradun, India at Indian Institute of Remote Sensing (IIRS) which is a unit of Indian Space Research Organization (ISRO), Government of India. For conducting its Remote Sensing & GIS programmes the Centre has arrangements with IIRS as a host institution. The Centre has also arrangements with Space Applications Centre (SAC) Ahmedabad, playing as host-institution for programmes related to Satellite Communications, Satellite Meteorology and Global Climate, Global Navigation Satellite Systems and Physical Research Laboratory (PRL) Ahmedabad for Space and Atmospheric Sciences.

The Centre has been imparting training and education, helping participants in developing research skills through its Master Degree, Post Graduate and Certificate programmes. This is achieved through rigorous class-room (theory and hands on exercises), group discussions, field campaigns and pilot projects in the field of space science and technology. These programmes aim at capacity building for participating countries, in designing and implementing space-based research information and application programmes. The Centre also fosters continuing education to its alumni.

"It is emphasized that the overall mission of the centres is to assist participating countries in developing and enhancing the knowledge and skills of their citizens in relevant aspects of space science and technology in order that such individuals can effectively contribute to national development programmes."
AFFILIATION TO THE UNITED NATIONS
The Centre has entered into a cooperative agreement with the United Nations which states that the United Nations will cooperate with the Centre by providing expert advice, educational curricula, technical support, necessary documentation and other appropriate support.

EDUCATIONAL PROGRAMME AND COURSES
The educational programme of the Centre is oriented towards the dissemination of knowledge in relevant aspects of space science and technology. The emphasis of the Centre is to deliberate on education and research for natural resource management along with linkages to the global programmes/databases, pilot studies, continuing education & awareness and appraisal programmes. The curriculum has been developed under the auspices of the UN Office for Outer Space Affairs (UN-OOSA) and the guidelines emerged from the meetings held for Education Curriculum Development for the Centre at Granada, Spain in February/March 1995. These curricula are reviewed periodically by an International Advisory Committee. The activities of the Centre are guided by a Governing Board, Academic Advisory Committee and respective Board of Studies.

ACADEMIC ACTIVITIES
The academic activity is divided into two phases. Phase-I is of 9 months duration and executed at the Centre in India. After successful completion of the Phase-I, the participants are encouraged to take up Phase-II research project of one year duration in their home country. Phase-II allows participants to take up research project relevant to their home country or organization and apply the technologies.

If desired by the candidate the candidate can submit one year research project to Andhra University, Visakhapatnam, India for Master of Technology Degree (M. Tech. Degree). The eligibility criteria of the university will apply.

(i) Post Graduate programme: P.G. Diploma Courses of nine months duration are organised in the following disciplines:

- Remote Sensing and Geographic Information System (RS and GIS) (at IIRS, Dehradun)
- Satellite Communications (SATCOM) (at SAC, Ahmedabad)
- Satellite Meteorology and Global Climate (SATMET) (at SAC, Ahmedabad)
- Space and Atmospheric Sciences (SAS) (at PRL, Ahmedabad)
- Global Navigation Satellite Systems (GNSS) (at SAC Ahmedabad)

Core Modules (Semester I and II) emphasize on the development and enrichment of the basic knowledge and skills of the participants in the technology. This is followed by pilot study, which provides an opportunity to fine-tune the skills for executing theme-based study.

(ii) Master programme: This programme gives an opportunity and continuity in developing higher research skills for those who have completed successfully the nine months P.G. Course. This is subject to qualifying for admission requirements of Andhra University, India. A research project by the scholars is conducted and executed in their
The Centre has so far conducted 55 post graduate courses, 22 RS-GIS, 11 SATCOM, 10 SATMET, 10 SAS and 2 GNSS courses. Currently 23rd RS&GIS course at Dehradun, 11th SATMET course at SAC, Ahmedabad and 11th SAS course at PRL, Ahmedabad are in progress. The centre also conducted various short courses in specific themes. More than 2000 participants from 36 Asia Pacific Region and 19 from other then AP regions are benefitted from these courses.

**IMPORTANT DATES**

- Last date for receipt of applications: February 28, 2019
- Information of selection: April 20, 2019
- Commencement of course: July 1, 2019
- Completion of PG diploma (Phase-I): March 31, 2020

**WHO CAN APPLY?**

The course is designed towards the professionals and specialists working in the university system, educational institutes, and involved in active research in Natural Resources (biological and physical) and Environmental management. It is strongly expected that the participating scholars will be able to:

- Serve as catalysts for furthering the skills and knowledge of other professionals in their countries.
- Contribute to policy making, planning, development and management of Remote Sensing & GIS and its applications in their countries.

**RECOGNITION OF MASTER PROGRAMME**

The Centre is in agreement with Andhra University (est. 1926) Vishakapatnam, India for award of M. Tech. Degree. The terms and conditions of this agreement are reviewed from time to time.
Enhance the self reliance of their countries so as to lessen dependence on external experts.

**HOW TO APPLY?**

Applications are invited from candidates in countries of Asia and the Pacific Region for the 24th P.G. Course in RS and GIS (www.cssteap.org). All the candidates need to be either nominated or sponsored (i.e. endorsed) by recognized institutions (e.g. departments, ministries or universities in their respective countries). Nominating or Sponsoring institutions/authority should ensure that on return, the scholar will be given an opportunity to work in a development oriented activity in the area of newly acquired knowledge and skills. The execution of a one year project work in their respective countries is the beginning of this process and it is assumed that sponsoring authority will facilitate one year research project in the home country. However, the Centre will provide long distance technical guidance. A limited number of short (4-6 months) and one year duration fellowships may be made available to meritorious participants to complete Phase-II Research Project work in India.

Please submit this duly filled application form (attached with this announcement or download from website) to the Centre through/endorsed/nominated by:

a. Governing Board member of CSSTEAP in your country 
   (for details please see website)

b. After nomination/sponsorship through
   - Indian Embassy/High Commission in your country or
   - Your Embassy/High Commission in India

The application should be completed in all respects and accompanied by attested and/or certified copies of all the certificates (School, Bachelor and Master, TOEFL, English Proficiency, etc.). Wherever, if these certificates are issued in a language other than English, then the same must be translated in English and certified by the Head of the organization Department or provide English transcription of all such documents. However, an advance copy may be forwarded at the following address for advance action and follow-up at this end:

**Course Director**

CSSTEAP-RSGIS-24  
Indian Institute of Remote Sensing, ISRO  
Department of Space, Govt. of India  
4, Kalidas Road, Dehradun - 248 001  
Uttarakhand, India  
Phone : +91 135 2524225  
Fax : +91 135 2740785  
Email : cssteap@iirs.gov.in  
Website : www.cssteap.org

Since the medium of instruction is English, therefore, the writing/reading/speaking knowledge of English is mandatory. Nominating/ sponsoring agency may kindly note and ensure above condition before forwarding the application. On arrival in India if the candidate in unable to communicate in English, the candidate will be sent back to his/her country either at the cost of nominating agency or the candidate himself/ herself.

To download application form or to know more about CSSTEAP, its past and future programmes, list of participants and countries who have benefitted from these and the Pilot Projects carried out through these programmes, please visit us at [www.cssteap.org](http://www.cssteap.org)
ELIGIBILITY FOR ADMISSION

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). High School-level knowledge in mathematics and/or statistics is essential besides the Master degree as base qualification.

Important
The applicants are advised to bring original documents including academic testimonials for verification at the time of reporting in India.

SELECTION PROCEDURE

The Centre will select the candidates through a well laid procedure, which includes satisfying academic eligibility, proficiency in English language, funding/forwarding by sponsoring authority/organization, country representation, etc. Only selected candidates will be intimated by 31st April 2018 and list of selected candidates will also appear at Centre’s web-site (www.cssteap.org). Preference in selection will be given to those candidates whose expenses are borne by the candidate/sponsoring agency. Once a candidate has been sponsored and admitted, the sponsoring authority/organization or candidate need to inform at least 15 days in advance for withdrawal or cancellation of the candidature. If the sponsoring authority wishes to call back its candidate for any unknown reasons after joining the Centre or in the middle of the course, the to and fro travel cost need to borne by either sponsoring authority or by the candidate itself.

ISRO is a premier government organisation in India for space science and technology missions and developments. ISRO is premier agency for the development Earth Observation and Communication satellites, launch vehicles, etc. Moon and Mars mission are noteworthy amongst several achievements. IIRS (est. 1966) is an unit of Indian Space Research Organization, Department of Space, Government of India and is mandated for education/training in Remote Sensing, Geoinformation Science and GPS technologies. It is a premier institution in imparting training and education in basic technologies and their applications for natural resource management. The institute has very strong R&D programme. The endeavour of the institute has been to bring young, middle as well as senior thematic experts from user communities to educate/apprise about technology/applications at Post Graduate level with the overall goal of ‘technology transfer’ and user awareness. The institute has evolved many programmes tuned to the different needs of various target groups. IIRS addresses the cause, awareness and research needs at different levels of management, and therefore, conducts a variety of courses for the different categories of users and fresh students viz., M. Tech., M.Sc., PG Diploma, 2 months National Natural Resource Management System (NNRMS) sponsored courses for
University faculty, 2 weeks on demand Special Courses, 1 week duration Overview Course for Decision Makers and tailor-made courses for users departments from India and abroad. IIRS has so far trained more than 11,000 scientists/engineers. More than 1000 foreign students from various countries of Asia, Africa and Latin America have also benefitted under SHARES Fellowship programme of the Department of Space, ITEC / SCAAP fellowship scheme of the Ministry of External Affairs, Government of India, other fellowship schemes, etc. For further details visit http://www.iirs.gov.in

FACULTY

Centre’s core faculty is drawn from IIRS and also from other centres of ISRO/DOS, universities and premier agencies from India and abroad. They have long and varied experience in the field of RS & GIS technology and its applications. The faculty has a strong scientific background with a number of research publications, experience of participating in international scientific programmes, organizing a number of courses, etc. to their credit. A few visiting international experts are also invited to deliver lectures on advance and specialised topics. Experts from USA, UK, The Netherlands, Germany, Thailand, Australia, Japan, UN-OOSA, UN-ESCAP, UN-SPIDER etc. have delivered lectures.

MEDIUM OF INSTRUCTIONS

The medium of the instructions/teaching is English. Proficiency in written and spoken English is most essential. The candidates who are not proficient in English are advised not to apply. Applicants, who have done their higher studies in a medium (language) other than English, are required to submit TOEFL score or a diploma/certificate of English language issued by an accredited language institution or by the local UNDP for satisfactory establishment of the applicant’s competence in spoken and written English language. Preference will be given to those who secure high score in TOEFL examination. Nominating agencies are requested to ensure this.

TEACHING METHODS AND FACILITIES

Modern facilities exist at the Centre for class-room teaching and practical instructions/demonstrations. Printed as well as digital course material of the lectures is supplied. The teaching methods include class room lectures, video lectures, computer based training packages, laboratory experiments, group discussions, demonstrations, seminar presentations and field work/case studies (as applicable). Computer-based interactive multimedia packages are also available for self learning/ revision. The laboratories are equipped with latest Image processing and GIS software. Each participant is given individual computer system. One of the majors strengths of the institute is its library with latest subject literature, text books, e-books, online-journals, etc.

TECHNICAL & EDUCATIONAL VISITS

As a part of the course curriculum, the participants will have the opportunity to visit different centres of ISRO / Dept. of
Space, Govt. of India and other organizations concerned with Remote Sensing and GIS related research.

**PERFORMANCE EVALUATION**

The performance of the participants is assessed through written, interactive-sessions and/or computer-assisted practical exercises. Independent assessments of theory and practical exams are conducted by external and internal faculty. The participants need to pass each examination paper. Participants, who fail to qualify in the examinations in the nine months course, may be considered for award of only a "Certificate of Attendance" by the Centre.

**AWARD OF DIPLOMA/DEGREE**

On successful completion of the Phase-I study, i.e. nine-months course, the participants will be awarded Post Graduate Diploma. Certificate of Attendance will be given to the candidates who fail to clear the examination. If the participant is able to complete Phase-II project work, i.e. research project in home country satisfactorily within four years of joining the PG course, the candidate can avail the opportunity to submit the work to the Andhra University (India) for award of M. Tech. Degree.

**COURSE EXPENSES**

The overall expenses of the course is given below, this is besides the international travel (to and from city of the course participant to course venue):

- Course Fee : US $ 6000 per participant
- Local tours : US $ 1200 per participant
- Living expenses : US $ 1100 per participant

The participants are expected to find suitable sponsorships or funding for meeting the expenses while attending the course in India. Preference will be given to such candidates.

**FINANCIAL ASSISTANCE TO PARTICIPANTS FROM GOVERNMENT OF INDIA**

For this course, Government of India (GOI) has offered to waive off the course fee of US $ 6000 per participant selected by the Centre from the Asia-Pacific region. Thus no course fee is payable by the selected participants from the Asia-Pacific region. GOI will provide financial assistance to few of the selected candidates as mentioned below:

- Living expenses in India : INR 16,000 per month for the duration of 9 months.
- Book allowance : INR 2,000 per (one time)
- Project allowance : INR 1,500 (one time)
- Local tour expenses : Up to INR 50,000

**SUPPORT FROM UN Agencies**

UNOOSA, Vienna, UNSPIDER, Beijing and UN-ESCAP, Bangkok have been providing financial assistance to CSSTEAP educational programmes and have extended travel grants to a good number of course participants since its inception. This contribution by UN Agencies is highly supportive to the overall activities of the Centre.
The Centre may offer help to obtain financial assistance for international travel for a limited number of participants of the Asia-Pacific region through agencies like UN Office for Outer Space Affairs (UN-OOSA), UN Economic and Social Commission for Asia and the Pacific (UN-ESCAP).

INSURANCE

Medical, life and disability insurance should be undertaken before leaving their country for India by the participants themselves or on their behalf by their sponsoring institute/organization for covering entire health and disability risks. No medical expenses will be borne by the Centre. However, participants who receive the Fellowship of the GOI will be paid medical expenses for minor ailments on actual basis (as an out patients only) as and when such expenses are incurred. The Centre will have limited liabilities as far as medical expenses are concerned in such cases. Candidates in sound physical and mental health only need to apply.

LIFE AT CENTRE

It is mandatory for all the course participants to stay in the Centre’s hostel situated in the IIRS Campus. This gives an opportunity for participants to interact and share their knowledge and cultural values. Accommodation on single occupancy basis is provided to all the selected participants. The campus is equipped with good living facilities, like independent kitchenette, gymnasium, tennis court, etc. A sum of INR 1500/-per month is to be paid by the participant towards the accommodation. Boarding and other expenses towards consumables are to be borne by the participants themselves. Since India is country of festivals, unique socio-cultural values, religions, languages, etc. the participants would get to know about different colourful festivals throughout the year.

RS&GIS COURSE AT A GLANCE

Phase-I of RS and GIS Course is divided into two Semesters. Semester-I is of 4 months duration and consists of module-I covering RS, image interpretations and analysis, Photogrammetry, GPS, GIS and environmental assessment & monitoring. Semester-II is of 5 months duration and consists of two modules, module-II of 2 months focuses on application of RS and GIS in thematic disciplines namely, Agriculture and Soil; Forest Ecosystem Assessment & Management; Geosciences & Geohazards; Marine & Atmospheric Science; Water Resources; Urban & Regional Studies; Satellite Image Analysis & Photogrammetry and Geoinformatics. In module-III of 3 months duration each scholar has to formulate and execute a Pilot Project under the guidance of the faculty. These three modules are described briefly ahead.
First Module (Common) *
- Remote Sensing Platforms & Sensors
- Mathematical concepts applicable in Digital Image processing & GIS
- Principles of analysis of Remote sensing data (Visual and digital)
- Photogrammetry
- Overview of Geoinformatics
- Global Positioning System Technology and applications
- Advanced concepts in Remote Sensing and GIS
- Satellite Meteorology
- Natural Disaster Management
- Sustainable Development
- Environmental Analysis, Monitoring & Management
- Seminar presentation

Second Module (Elective) *
Remote Sensing & GIS technology and application in thematic areas (elective) viz.
- Agriculture and Soils,
- Forestry Ecosystem Assessment & Management
- Geosciences & Geo-hazards,
- Marine & Atmospheric Science
- Water Resources
- Urban & Regional Studies,
- Satellite Image Analysis & Photogrammetry
- Geoinformatics

Third Module (Elective)
- Pilot project in the domain of Remote Sensing and GIS Technology applications in Natural Resources and Environment Management Planning and design of the project
- Literature survey
- RS data products Identification and acquisition
- Ground data collection and field verification
- Analysis and results
- Documentation and generation of report
- Project seminar
- Recommendation of a research area selected in home country for one year project.

PHASE II: ONE YEAR PROJECT
Each participant after completing Phase-I of the course, will have to carry out an approved project in his/her home country for a period of one year. This is to be formulated jointly by the scholar and his/her advisor at the Centre during Module 3 of Phase I in an area relevant to the interest of the sponsoring institution/country. The sponsoring institution/country is obliged to guarantee on the return the
scher would remain in a suitable position with commensurate and progressive remuneration and other entitlements for a minimum period of 3 years and will be provided all facilities to carry out the work. This course programme will be considered complete on acceptance/approval of the submitted project report.

ABOUT THE CITY

Dehradun city, often called as Doon Valley, is at the base of chain of one of tallest mountains in the world in Western Himalayas in northern India. It is one of the educational hubs in India. Weather is moderate during March to May. The hill station Mussoorie, the Queen of hills, is 30 km from here and experiences snowfall during winter. Fairly heavy monsoon rains (average annual rainfall 2000 mm) prevail during June to September. Winter is severe during the months of December to February (minimum temperature occasionally touches 1 to 2 degree Celsius). The valley has good greenery and is surrounded by dense tropical to temperate forests and pastures and provides pristine environment for academic pursuits. IIRS Campus is about 6 km from Dehradun railway station and about 30 kms from Jolly Grant Airport Dehradun. The place is well connected by train from New Delhi, Kolkata (Calcutta), Mumbai (Bombay), Lucknow and by road from New Delhi. By air it is well connected with Delhi. Haridwar and Rishikesh, the two famous pilgrim centres are about 60 and 40 km, respectively from city. The Western Himalayas are well known for wonderful landscape, mountaineering, tracking, trails and river rafting.

Several important national organizations/institutions are located here. Some of important ones are: Indian Council of Forestry Research and Education, Indira Gandhi National Forest Academy, Forest Survey of India, Wildlife Institute of India, Survey of India, Oil and Natural Gas Corporation Limited, Central Soil and Water Conservation Research and Training Institute, Botanical Survey of India, Zoological Survey of India, etc. There are a large number of tourist places in and around the city.

Alumni Meet

Alumni meet are organized to develop a network and to establish meaningful linkages between CSSTEAP, faculty and its past students. These are aimed to provide common platform to interact and apprise about the latest development in the space technology and its applications. Such meets were held in Nepal, Bangladesh, Sri Lanka, Bhutan and Myanmar in the past. The centre proposes to hold 2-3 such meetings in coming years in different countries with local support.
**Course Content**

**Semester-I: 4 months**  
*(Compulsory) consists of 5 Theory papers (100 marks each) + 5 Practical papers (100 marks each)*

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<thead>
<tr>
<th>Module-IA (3 months)</th>
<th>Module-IB (1 month)</th>
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<tbody>
<tr>
<td>Fundamentals of Remote Sensing &amp; GIS</td>
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<tr>
<td>1. Remote Sensing</td>
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<td>2. Image Interpretation &amp; Analysis</td>
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<td>3. Photogrammetry</td>
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<td>4. Geoinformatics</td>
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<td>5. Recent Trends in RS and GIS &amp; Environmental Assessment and Monitoring</td>
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**Semester-II: 5 months**  
*Module II (Optional Electives - one to be chosen) (2 months) consists of 4 Theory Papers (each of 100 marks) + 4 Practical Papers (each of 100 marks)*

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<thead>
<tr>
<th>Agriculture &amp; Soils</th>
<th>Marine &amp; Atmospheric Science</th>
<th>Water Resources</th>
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<tr>
<td>1. Land Use &amp; Soil Resources Management</td>
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<td>2. Agri-Informatics</td>
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<td>3. Environmental Soil Science</td>
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<td>4. Satellite Agrometeorology</td>
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<td>5. Coastal processes &amp; marine ecology</td>
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<td>6. Atmosphere &amp; ocean dynamics</td>
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<td>7. Satellite oceanography</td>
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<td>8. Satellite meteorology</td>
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<td>Forest Ecosystem Assessment &amp; Management</td>
<td>9. Water resources assessment</td>
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<td>1. Forest mapping &amp; monitoring</td>
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<td>2. Forest inventory</td>
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<td>3. Forest informatics</td>
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<td>4. Forest ecosystem analysis</td>
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<td>10. Watershed analysis &amp; planning</td>
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<td>11. Water resources development</td>
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<td>12. Water resources management</td>
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<th>Geosciences &amp; Geo-hazards</th>
<th>Satellite Image Analysis &amp; Photogrammetry</th>
<th>Geoinformatics</th>
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<tbody>
<tr>
<td>1. RS for Earth &amp; planetary sciences</td>
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<td>2. Data processing &amp; analysis for Geosciences</td>
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<td>3. Applied &amp; tectonic geomorphology</td>
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<td>4. Engineering geology &amp; ground water</td>
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<td>13. Remote Sensing-II</td>
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<td>14. Image processing-II</td>
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<td>15. Digital photogrammetry &amp; mapping</td>
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<td>16. Surface generation techniques</td>
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<td>17. Spatial database architectures &amp; modelling</td>
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<td>18. Programming in geodata modelling</td>
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<td>19. WebGIS and Geovisualization</td>
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<td>20. Spatial data quality and Geostatistics</td>
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<tr>
<th>Urban &amp; Regional Studies</th>
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<td>1. Fundamentals of urban &amp; regional planning</td>
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<td>2. Urban and regional area analysis</td>
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<td>3. Urban resources services &amp; facilities analysis</td>
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<td>4. Advanced urban and regional studies.</td>
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**Annexure-I**

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<th>Module-III: Pilot Project Work (3 months)</th>
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<td>(Project work of 100 marks, Presentation/ defense 100 marks)</td>
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<tr>
<td>1. Project planning</td>
</tr>
<tr>
<td>2. Post field analysis &amp; report</td>
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<td>3. Pre-field interpretation &amp; analysis</td>
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<tr>
<td>4. Project seminar</td>
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APPLICATION FORM FOR 24th POST GRADUATE COURSE IN REMOTE SENSING AND GIS
(JULY 01, 2019 TO MARCH 31, 2020)
conducted at
Indian Institute of Remote Sensing (ISRO), Dehradun, India

RSGIS - 24
(For office use only)

Application No.: ........................................
Date received: ........................................

Important:
All the correspondence from CSSTEAP (issue of admission letter, e-tickets for travel, enquiries, etc) with the applicants will be on internet and sometimes on phone (Home/Office), therefore kindly ensure that email-id, phone, fax, etc, are correctly and clearly mentioned.

(Please type or use CAPITAL LETTERS)

1. Name: (As mentioned in the passport)
   Dr./Mr./Ms./ ......................................................   ......................................................    ........................................................
   First                      Middle                   Last

2. Father’s Name: ........................................

3. Name of mother/husband/wife: ...................................................

4. Date of Birth (DD/MM/YYYY) ........................................

5. Place of Birth: ..........................................................  

6. Gender (Male/Female) ..........................................................

7. Nationality: ..............................................................  

8. Contact Information: Present official Address (Valid until date)........................................
   ........................................................................................................
   ........................................................................................................
   ........................................................................................................
   Contact number (Please give complete Phone no. with country and city codes)
   Office (Tel) .......................................................... Office (Fax)
   Mobile: .................................................. E-mail

Important:
a) Interested persons may detach last 4 pages from this brochure and use them as Application Form.
b) It is essential that full passport details are mentioned in the Application Form or provided to the Centre at the earliest.
c) Application Forms without passport details may not be considered.
d) Providing alternate email-id would ensure timely communication with applicants.
e) Please note, for faster communication with the applicants, CSSTEAP Secretariat will be using your email-id for all purposes (e.g. admission letter, air tickets and logistic arrangements)
9. Permanent home Address (in your country)

...................................................................................................................................................................................
...................................................................................................................................................................................
...................................................................................................................................................................................

Contact number (Please give complete Phone no. with country, city codes. Which will be useful to contact your family members in case of emergency)

Home (Tel) ................................................................. Home (Fax).................................................................................................

E-mail (alternate, preferably Gmail or Yahoo)...................................................................................................................

10. Nearest International airport (Specify the place/city):......................................................................................................

11. ACADEMIC QUALIFICATIONS (mandatory)*

<table>
<thead>
<tr>
<th>Degree / (Batchelor/ Master) Diploma</th>
<th>Duration of Course (mention from which year to year)</th>
<th>University / Institution</th>
<th>Year of Passing</th>
<th>Grade / percentage</th>
<th>Major Subjects/specialization</th>
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*(Enclose copies of Degree/Diploma/Certificates/marks/grades obtained etc. and their certified transcription in English)

Major Subjects in last examination: .................................................... Area of Specialization..........................................

Medium of instruction/language ....................................................... TOEFL Score (Proficiency in English)..........................

Reading Fair/Good/Very Good
Writing Fair/Good/Very Good (Please tick the option)
Spoken Fair/Good/Very Good

Enclose certified copies of marks/grades of degree, diploma, TOEFL (validity period), etc certificates and their certified translations in English).

12. DETAILS OF EXPERIENCE OF LAST FIVE YEARS

(a) Present Position ................................................................. Present Responsibilities* ..............................................

...................................................................................................................................................................................

Organization and Complete Address......................................................................................................................................

...................................................................................................................................................................................

Date of joining this Organization (dd/mm/year) ..........................................................

* Attach additional sheets giving details of your technical activity during last one year.

(b) Research or working experience during past 15 years:

<table>
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<tr>
<th>Name of Organization (s)</th>
<th>Position(s)/ Post (s) held</th>
<th>Nature of work done</th>
<th>Duration</th>
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17. PHYSICAL FITNESS:
   a) Are you suffering from any recurring/chronic/serious communicable disease which may affect your study program in India?
   b) If yes, please specify nature of illness (Candidates are advised to attach medical fitness certificate from a government hospital or government recognized hospital on hospital letter head)

18. How do you propose to meet the international travel & stay expenses in India? (Preference will be given to those who will make their own travel or both travel and stay arrangement himself/herself).

19. Which elective/subject in Module-II of the course you wish to choose (Tick Mark)
   (You have to choose one subject from the list given above. In each subject there are 4 papers each in internal & external examinations. The candidate has to appear and pass all the exams of Theory and Practical (Annexure-I). The pilot project work of 3 months has to be undertaken in that discipline only. Once an elective has been chosen the candidate cannot switch over to another elective after one week or middle of semester.

20. Smoking and drinking of alcohol in the office premise is not permitted. Participants are expected to maintain proper decorum while in campus & excursions.

21. The selected candidate need to abide by rules and regulation of the institute and maintain discipline harmony and will not indulge in unlawful activities in campus hostel or during educational and field visits.

22. DECLARATION BY THE CANDIDATE
   I have read the announcement brochure and will abide by the rules and regulations of the Centre. I have made / am making / have not made travel arrangements for attending the course and local expenses for the period of stay in India.
   Date: ........................................
   Place: ........................................  Signature of Candidate (Mandatory)

13. (a) Activities & Projects in which your present organization is engaged (mandatory) and nature of work done

   ............................................................................................................................................................................................
   ............................................................................................................................................................................................

14. Have you done any other course from CSSTEAP (If yes, please give details including theme and year).

   ............................................................................................................................................................................................
   ............................................................................................................................................................................................

15. How this Course will help you in your work/organization? Please describe below.

   ............................................................................................................................................................................................

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

<table>
<thead>
<tr>
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<th>Date of Issue</th>
<th>Passport valid up to</th>
<th>Issuing Authority</th>
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13. (b) Main Scientific/Technical facilities available in your organization *(including approximate number and type of computers, type of software available, etc.)*

   ............................................................................................................................................................................................
   ............................................................................................................................................................................................
   ............................................................................................................................................................................................

14. Have you done any other course from CSSTEAP (If yes, please give details including theme and year).

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   Date: ........................................
   Place: ........................................  Signature of Candidate (Mandatory)
23. SPONSORING NOMINATING AGENCY CERTIFICATE

Mr./Ms.……………………………………………………………………………………….working in this organization is nominated and/or sponsored by………………………………………………………………………………………………………………..to attend the 24th Post Graduate Course in Remote Sensing & Geographic Information System (RS & GIS), to be held at Indian Institute of Remote Sensing ISRO, Dehradun, India during July 1, 2019 - March 31, 2020. We envisage to utilize his/her experience in specific tasks of our organization/agency. If found eligible for M.Tech. and admitted by Andhra University, the candidate will be allowed to carry out a Research Project for a period of one year after his/her return to this country and will be provided with all the facilities required for the same.

a) He/She will be / will not be provided international travel support.

b) He/She will be/will not be provided financial assistance for the period of stay in India.

c) He/She possesses adequate knowledge of English Language required for the course.

Date:……………….. Signature:

Place:……………… Name in Capital Letters:

Designation:
Phone No:
Fax No:
E-mail:

(Official seal of the sponsoring / nominating authority including CSSTEAP GB Member)

Note: Application without official seal of sponsoring or nominating authority and their details will not be considered.

24. FORWARDING NOTE BY THE RESPECTIVE INDIAN EMBASSY/HIGH COMMISSION IN YOUR COUNTRY OR YOUR EMBASSY/HIGH COMMISSION IN INDIA.

This is to forward the application of Mr./Ms………………………………………………………………………………………………………………………………………………………………………..of ………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………..(Specify the Country Name here) for the 9 months Post Graduate Course in RS&GIS-24 of CSSTEAP, to be held at Indian Institute of Remote Sensing, ISRO Dehradun, India, during July 1, 2019 to March 31, 2020.

Date: Signature:

Place: Name:

Designation:
Phone No:
Fax No:
Email:

(Official Seal of the Embassy/High Commission of India either in your country or of your country in India)

N.B. Please send an advance copy of the application form duly signed by the nominating/sponsoring agency to the Course Director, RS & GIS-24, Indian Institute of Remote Sensing by fax (+91-135-2740785) or on email (cssteap@iirs.gov.in) for quick processing.

IMPORTANT

- The Application which is not complete in all respects is likely to be rejected.
- Candidates must attach copies of certificates of:
  a) Medical fitness to attend the course including Chest X-ray (PA), Blood Test (including Random Blood Sugar, HIV, HBs, Ag, Urine complete (in case any medical information requiring attention is hidden and if found during the course, the centre will be compelled to send the candidate back home at the cost of nominating agency or candidate.
  b) Smoking and consuming alcoholic drinks in class room and office campus is prohibited.
  c) Attach copy of Highest degree obtained (Degree certificate and marks sheet/grade card)
  d) Proof of Proficiency in English needs to be provided or certificate provided by the nominating agency.
  e) Attach copy of All Degree Certificates, if not in English, may please be translated in English and attested by the Head of the organization or transcript in English can also be submitted.
  f) Expecting mothers are advised to take a judicious decision before applying and joining the course.
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Dr. K. Sivan
India

Chairman
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DPR Korea

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Indonesia

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Myanmar

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Observers
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UN-OOSA

Prof. Dr. Ir. A. (Tom) Veldkamp
ITC (The Netherlands)

Secretary
Dr. A. Senthil Kumar
Director, CSSTEAP, India

For further detail kindly see our website (www.cssteap.org)

23rd RS and GIS Course Participants during Field Visit to Rishikesh

23rd RS and GIS students during Educational Visits to Nandi Hills, Bangalore