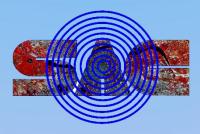
Centre for Space Science and Technology Education in Asia and the Pacific (CSSTEAP) (Affiliated to the United Nations) www.cssteapun.org



Announces

FOURTEENTH POST GRADUATE COURSE IN SATELLITE METEOROLOGY AND GLOBAL CLIMATE

Conducted at



Space Applications Centre (SAC) Indian Space Research Organisation (ISRO) Ahmedabad, India www.sac.gov.in

ACADEMIC YEAR 2025 - 2026

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Introduction

Space technology has transformed people's modern lives by enabling them to study and processes. understand the Earth's Α noticeable improvement in human life is seen through the utilization of space technology in satellite communication. television. telemedicine. satellite navigation. remote sensing, weather forecasting, disaster mitigation etc. The global satellite data availability has made this beneficial to all countries. The United Nations promotes using space technology for sustainable development. disaster management and scientific research. It has emphasised that all countries should have access to space technology and most space-developed nations should share the benefits of space technology with other countries. 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 developing countries, efforts must be made at different building levels for capacity 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 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. These Centres use existing facilities and expertise available in education and other research institutions in their respective regions.

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 first campus of the centre was established in Dehradun. India at the Indian Institute of Remote Sensing (IIRS) which is a unit of the Indian Space Research Organization(ISRO), Government of India. The Centre has arrangements for conducting long and short term courses with IIRS, Dehradun for RS & GIS course; Space Applications Centre (SAC), Ahmedabad for Satellite Communication (SATCOM), Satellite Meteorology and Global Climate (SATMET) and Global Navigation Satellite System (GNSS), with Physical Research Laboratory (PRL), Ahmedabad for Space & Atmospheric Science(SAS) course UR Rao Satellite Centre and (URSC). Bengaluru for Small Satellite Mission (SSM) and National Remote Sensing Centre (NRSC), Hyderabad for data acquisition and data processing.

The Centre has been imparting training and education, helping participants in developing research skills through its Master's Degree, Post Graduate and Certificate programmes. This is achieved through rigorous classroom (theory and hands-on exercises). aroup 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.



Goals of the Centre

The Centre is an education and research institution, capable of high attainments in the development and transmission of knowledge in the field of space science and technology. The Centre offers the best possible education, research and application experience to its participants in all its programmes.

The principal goal of the Centre is the development of skills and knowledge of university educators, researchers and application scientists, through rigorous theory, research, applications, field exercises and pilot projects in those aspects of space science and technology that can enhance social and economic development in each country.

The programmes aim at the development of capability participating indigenous of countries, in designing and implementing space-based research and applications programmes. The Centre will also foster continuing education programmes for its graduates and awareness programmes for policy and decision-makers and the general public.

It is emphasized that the overall mission of the centre 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.

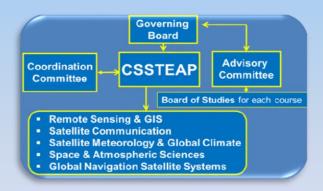
(i) Post Graduate Courses

P.G. Diploma Courses of nine months duration are organized 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 (Semesters I and II) emphasize the development and enrichment of the basic knowledge and skills of the participants in the technology.

This is opportunity to fine-tune the skills for executing a theme-based study, followed by a pilot study, which provides an fine-tune the skills for executing a theme-based study.



Programmes Conducted

The Centre has far conducted 70 SO postgraduate courses, 27 RS&GIS, 13 each in SATCOM, SATMET & SAS and 4 in GNSS courses. Currently 28th RS&GIS course at IIRS Dehradun, the 14th SATCOM course and the 05th GNSS course at SAC Ahmedabad are in progress. The Centre also conducted various short courses in specific themes. More than 4000 participants from the Asia-Pacific Region and 27 countries from the Asia-Pacific region benefited from these courses.

Announcement of 14th SATMET Course

Duration : August 1, 2025 to April 30, 2026

Venue: Space Applications Centre Indian Space Research Organization Department of Space, Govt. of India, Opp. Delhi Public School, Bopal Technical Campus, Bopal Ahmedabad-380 058, Gujarat, India

Number of seats: 20

: 05 Additional Paid Seats

How to Apply ?

Applications invited are from Working Professional in countries of Asia and the Pacific Region for the 14th P.G. Course in Satellite Meteorology and Global Climate (www.cssteapun.org). All the applicants 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.

Please fill up the <u>ONLINE APPLICATION FORM</u> available at the CSSTEAP website (www.cssteapun.org).

Offline applications will not be considered.

Note

Paid Seats

Five paid seats are available for Private & Selfsponsored candidates from different countries to encourage and enhance participation opportunity for professionals/ researchers and those working in industry. For the paid seats tuition fee i.e. US \$ 6000, sustenance expenses for the training period and to and for travel expenses have to be borne by the candidate/organization. First preference in selection will be given to eligible selfsponsored candidates.

Who Can Apply?

The course is designed for the professionals and specialists working at the meteorological centers, and educational institutes and involved in active research in weather forecasting & climate. 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 Satellite Meteorology and its applications in their countries.
- Enhance the self-reliance of their countries so as to reduce the dependence on external experts.

Applicants reauired upload are to а sponsoring/nominating agency certificate with the official seal, and or forwarded by a Governing Board member of CSSTEAP in your country (for a list of Governing Board members please refer www.cssteapun.org) to the Indian Mission/High Commission in your respective your country or through country's Embassy/High Commission in New Delhi, India for further processing.

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, 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.

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 the above condition before forwarding the application.

Step by step instructions to the Applicants for filling online application form are provided in the website. On arrival in India if the candidate is unable to communicate in English, the candidate will be sent back to his/her country either at the cost of the nominating agency or the candidate himself/ herself.

To know more about CSSTEAP, it's past and future programmes, the list of participants and countries who have benefitted from these and the Pilot Projects carried out through these programmes, please visit us at www.cssteapun.org.

Eligibility For Admission

Master's degree or equivalent in Physics, Meteorology, Mathematics, Applied Mathematics, Oceanography, Geophysics or allied subjects with at least 5 years of teaching/research experience in or professional experience in the field or Meteorology and/or related disciplines. (For candidates with higher qualifications, the minimum experience may be relaxed). Graduate-level knowledge in Physics and Mathematics is essential besides the Master's degree requirements.

Important and Mandatory

The selected applicants will be required to bring original documents documents for verification at the time of reporting to 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 nominating/ sponsoring authority/ organisation, country representation etc. Only selected candidates will be intimated by April 30, 2025.

Preference in selection will be given to those candidates whose expenses are borne by the candidate and/or sponsoring agency. Once a candidate has been selected and informed about their selection, the nominating/ sponsoring authority/organisation or candidate need to confirm their participation or withdrawal of their candidature within 15 days of receipt of the email for selection. If the sponsoring authority wishes to call back its candidate after joining the Centre or in the middle of the course or the candidate wants to leave the course and go back to his/her country, the travel cost needs to be borne by either the sponsoring authority or by the candidate.

About the Host Institute

Space Applications Centre (SAC) is a major research and development Centre of the Indian Space Research Organisation (ISRO). It plays a key role in realising the vision of ISRO. Located at Ahmedabad, SAC is spread across three campuses having multi- disciplinary activities.

The core competence of the centre lies in the development of space-borne and air-borne instruments and their applications for national development and societal benefits. These applications are primarily to meet the communication, navigation and remote sensing needs of the country.

Besides these the centre also contributes significantly in scientific and planetary missions of ISRO like Chandrayan, Mars Orbiter Mission, Aditya L1 Mission etc.

The communication transponders developed at this centre for Indian National Satellite (INSAT) and Geo Synchronous Satellite (GSAT) series of satellites are used by the Government and Private sector for VSAT, DTH, internet, broadcasting, telephony etc. These satellites are instrumental in reaching remote parts of the country. The payloads for major navigation systems of the country - Indian Regional Navigation Satellite System (IRNSS) and GPS Aided Geo Augmented Navigation (GAGAN) are being developed by this centre.



Bopal Technical Campus, SAC

The centre designs and develops the optical and microwave sensors for the satellites, signal and image processing software and many applications for Earth Observation (EO) programme of ISRO. These applications are in the field of Geosciences, Agriculture, Atmosphere, Cryosphere, Hydrosphere, Oceanography, Environment and Climate Change etc.

SAC The facilities at include highly sophisticated payload integration laboratories. electronic and mechanical fabrication facilities, environmental test facilities, system reliability/ image processing and assurance group, facilities, analysis project management support group and well-stocked library. SAC active collaboration with industry, has academia, national and international institute for research and development. The centre also has state-of-art in-house and mobile exhibitions to propagate space technology amongst students and public.



Faculty

The faculty for the course constitutes of scientists in different fields, drawn from Space Applications Centre, India Meteorological Department, other Centres of Indian Space Research Organisation (ISRO) and various other agencies / universities from India. These experts have long and varied experience in the retrieval, analysis of various satellite data and their applications. An active modeling group involved in experimenting with various weather and climate models also exists at the Centre. The core faculty has a strong scientific background with a number of publications, experience of participating in international scientific programmes, organising a number of courses etc. to their credit.

A few visiting international experts are also invited to deliver lectures on advance and specialised topics. In the past, experts from Bureau of Meteorology (Australian Government), European Organisation for the Exploitation of Meteorological Satellites (EUMETSAT), Japan Meteorological Agency (JMA), National Oceanic Atmospheric Administration (NOAA). and United different States Universities and Malaysian Meteorological Department (MMD) etc. have delivered lectures.



Medium of Instructions

The medium of 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 classteaching room and practical instructions/demonstrations. Printed as well as digital course materials of the lectures are supplied. Earth stations located in Bopal and SAC campus receive and process INSAT, Megha Tropiques, Saral-Atlika, Ocansat-2, Scatsat, Oceansat-3 satellite/ MOSDAC data. There is a strong computer support with workstations, a large number of PCs, standard peripherals, etc. and all are interconnected through network. The computing facility is climate model updated for simulation. Facilities also include state-of-the-art general circulation models (GCM), mesoscale models (WRF), ocean circulation model, ocean wave model, image processing, graphic and visualisation software, 4-D GIS etc. The centre has access to global data from different satellites through EUMETCAST. Δ Meteorological satellite data archival center exists at SAC.

One of the major 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 centers of ISRO / Dept. of Space, Govt. of India and other organizations concerned with Meteorology 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-month course, may be considered for award of only a "Certificate of Attendance" by the Centre.



Technical visits to IMD, Delhi



Technical visits to SDSC, Shriharikota

Award of Diploma

On successful completion of the nine-month course, the participants will be awarded Post Graduate Diploma. Certificate of Attendance will be given to the candidates who fail to clear the examination.

Course Expenses

The overall expenses of the course as given : (This does not include international travel (to and from the city of the course participant to course venue):

Course Fee: US \$ 6000 per participant Local tours: US \$ 750 per participant (Approx) Living expenses:US\$2000 per participant (Approx)

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 encourage the participants from the Asia-Pacific region, selected participants will be waived off the course fee and local tours. Furthermore, financial assistance will be provided to a few of the selected candidates as below:

Living expenses in India:

INR 31,000 per month for the duration of 9 months.

Book allowance: INR 2,000 (one time)

Project allowance: INR 1,500 (one time)

Local tours: INR 50,000 (as per actuals)

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).

Support from UN-ESCAP

UN-ESCAP has been providing financial assistance to CSSTEAP educational programmes and has 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.



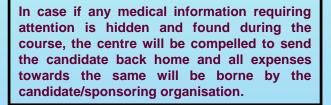


Insurance

Medical, life and disability insurance should be undertaken before leaving their country for India by the participants themselves or on their sponsoring institute/ behalf by their 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 outpatients 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.

Medical fitness certificate from an Authorized Government medical officer covering status of Eye, Chest (Tuberculosis), Vaccinations, heart, lungs, liver, spleen, Hydrocele, skin & V.D., Hepatitis, HIV, Yellow fever and other contagious diseases be enclosed with the application form.

Candidates must clearly specify if they are suffering from any health disorders which may affect their study programmes. Participants, who are not covered by appropriate medical insurance while in India, would be required to take a medical insurance policy in India by themselves.



Life At Centre

It is mandatory for all the course participants to stay in the Centre's hostel situated in the International Hostel Campus located nearly 200m away from the campus where the classes are held. 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. Boarding and other expenses towards consumables are to be borne by the participants themselves.





International hostel for Course Participants at Bopal

Conduct

Candidates have to strictly abide by the conduct rules and regulations of the institute. Each candidate has to give an undertaking in this regard at the time of registration. In case of the violations of the rules disciplinary action may be taken by the authorities as deemed appropriate. The decision will be conveyed their sponsoring to organization.

Limited medical facility, doctor's consultation for common health problems such as fever, cough/cold, minor injuries etc. will be available in the dispensary as an OPD patient. Since India is a country of festivals, unique sociocultural values, religions, languages, etc. the participants would get to know about different colorful festivals throughout the year.

Accommodation

Accommodation for the participants will be arranged in SAC Guest House. Kitchenette facility will be available to the participants. A sum of INR 150/- (approx.) per day is to be paid by each participant towards accommodation charges. Accommodation and other charges may be revised by SAC/ISRO/CSSTEAP during the course, without any prior notice. Food and other expenses such as cooking gas are to be borne by the participants. Spouse or any other person will NOT be allowed to stay along with the candidate in the hostel during the entire tenure of the course. Staying in hostel is compulsory for all the participants and staying outside is not allowed. Vehicle parking facility will not be provided to the participants within the office premises or in the guest house campus. No request in this regard will be entertained by CSSTEAP during the course. No

religious or political activities are allowed within the office premises.

SATMET Course at a Glance



Theory

Basic Concepts of Earth System Sciences

- Concepts of Meteorology, Climatology and Oceanography
- Concept of Mathematical, Statistical Techniques and Programming Fundamentals Basic Concepts of Satellite Meteorology
- Overview of Meteorological Satellites and Orbits

• Principles of Meteorological Remote Sensing Basic Concepts of Satellite Data Processing and Analysis

- Satellite Data Processing
- Remote Sensing Data Analysis and Interpretation

Practicals and Seminars

- Computer Oriented Numerical Techniques
- Satellite Image Analysis
- Current Weather Discussion



Theory

Geophysical Parameters Retrieval

- Radiative Transfer Theory and Atmospheric Parameters
- Land and Oceanic Parameters

Applications of Satellite Derived Parameters

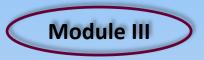
- Satellite Data Applications in Weather and Climate Studies
- Numerical Models and Satellite Data Assimilation

Global Climate and Environment

- Satellite based Essential Climate Variables, Climate Change and Future Projections
- Earth Radiation Budget and Cloud-aerosol feedback mechanism
- Extreme Weather Events and Meteor ological Disasters

Practicals and Seminars

- Geophysical Parameter Retrieval
- Satellite Data Applications
- Climate Seminar



Pilot Projects

The topics of the projects are of relevance to participant's region involving extensive use of satellite data and applications.

About Ahmedabad City

Ahmedabad is recognised as world heritage city and an important business centre in western India. A large number of textile mills and other industries are located in and around Ahmedabad. Well-known educational and research institutions like Indian Institute of Management, Physical Research Laboratory located here in addition to many Universities including Gujarat University and Gujarat Vidyapeeth.

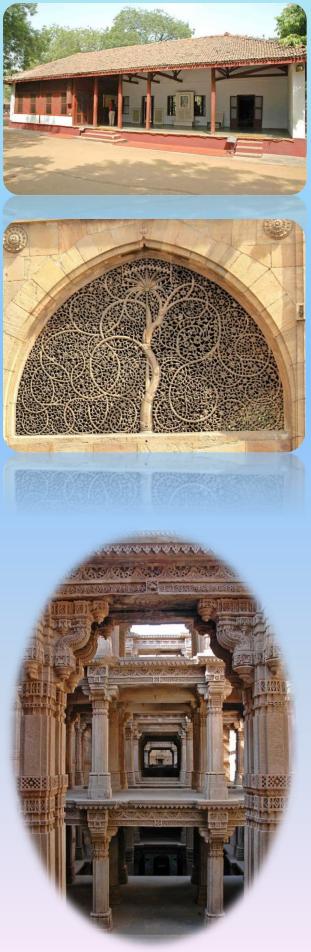
The famous Sabarmati Ashram from where Mahatma Gandhi organised the non-violent movement during India's freedom struggle, is also situated here. Ahmedabad also experiences the three main seasons, like most of the cities in India. In summers, which last during the months of March to June, the weather is very hot and dry. The average temperature ranges between the 23°C to 43°C. The highest recorded temperature is 47°C. During the winter months, i.e. from November to February, the climate is quite pleasant. During this time, the temperature ranges from 15°C to 35°C and the city experiences extremely dry climatic conditions. One can feel a slight chill during the month of January, mainly because of the cold northerly winds flowing in the region.

The lowest temperature ever recorded in Ahmedabad is 5°C. Not to forget, the monsoon sweeps the city during mid-June and mid-September. The south west monsoon is responsible for the humid weather at this time. The annual average rainfall in the city is 93.2 cm.

Ahmedabad is well connected to all important cities of India by air, rail and road. International airports of Delhi and Mumbai are about an hour's flight time from Ahmedabad. A few international flights also land and originate at Ahmedabad.

The nine-day dance festival of Garba (during October-November) followed 20 days later by the light and sound festival of Deepawali, the kite festival of Makarsankranti (on January 14) and the colour festival of Holi (during March) are occasions to enjoy in Ahmedabad.





Instructions to the Applicants for filling online application form:

- The Website is best viewed in Firefox ver.70.x, Chrome ver.84.x, and Edge latest version.
- Please register with valid e-mail, after successful registration e-mail will be triggered at given email address to activate the account.
- To activate your registration login with credentials with the activation link that sent on your already registered e-mail.

Note: In case the e-mail is not delivered on inbox, Please check the spam folder.

- Before submitting the online application form, the applicants are requested to go through the course brochure carefully (eligibility and documents required etc).
- Submit online application form well in advance along-with legible and scanned copies of all required documents.
- If the documents are in a language other than English, then translation certificate should be uploaded.

The documents should be uploaded in valid scanned .pdf format (with file size limit between 25KB to 500KB).

- Recent scanned copies of passport-size photograph and Signature should be uploaded in jpeg, .jpg or .png format (with file size limit between 10KB to 100KB).
- The applicants are advised to fill in all their particulars carefully in the online application form.

Important Note: Applicant is required to upload sponsoring/nominating agency certificate with official seal, and or forwarded by the Governing Board Member (GB) of CSSTEAP (please refer to the list at www.cssteapun.org if any GB Member of your country is in the list). Indian applicants need not to send through GB member.

- The completed form along with all the attachments is to be sent either to the Indian Mission/High Commission in your respective country or through your country's Embassy/High Commission in New Delhi, India for further processing. The Embassy/HC will forward your application to the Course Director of the applied course. (refer to the email id of course director for the applied course in the brochure). Indian applicants need not to send through Missions.
- Applicants are advised to retain the printout of the finally submitted online application form.
- Please be noted that the online application form is not editable after final submission.
- In case of any difficulties while submitting online application form please e-mail at websupport@iirs.gov.in
- Kindly refer to the brochure for last date of submission of online application form.
- In case of any difficulties while submitting online application form please e-mail at websupport@iirs.gov.in.

IMPORTANT DATES FOR SATMET – 14 COURSE			
Last date for Receipt of Applications	March	31, 2025	
Information of Selection	May	31, 2025	
Commencement of Course	August	01, 2025	
Completion of Course	April	30, 2026	

Mail the application form on the address given below through Governing Board member (list attached in this brochure) to Indian Embassy/High Commission in your country.

To, Course Director, CSS Space Applications C Department of Space, Opp. Delhi Public Sch Bopal Campus (Tech) Bopal, Ahmedabad - 3	entre (ISRO), Govt. of India, ool,	
Gujarat, India.		04 70 0004 0007 (0000
Phone	:	+91 79 2691 6067 / 6068
Email	:	cssteapsatmet@sac.isro.gov.in
Website	:	www.cssteapun.org

Note: Also mail an advance copy of the application form signed by the sponsors to the same address for taking necessary advance action.



Headquarters IIRS Campus 4, Kalidas Road Dehradun- 248 001 (INDIA) Tel: +91-135-2740737 & 2740787 Fax: +91-135- 2740785

Email: cssteap@iirs.gov.in **Website:** www.cssteapun.org



SAC Campus Space Applications Centre Ambawadi Vistar P.O. Jodhpur Tekra Ahmedabad- 380 015 (INDIA) Tel: +91-79-2691 3344 Fax: +91-79-2691 5843





