

SPACE SCIENCE & TECHNOLOGY

AWARENESS TRAINING

VISIT: https://jigyasa.iirs.gov.in/START

START-2023: Overview of Space Science and Technology



Govt. of India Dept. of Space Indian Space Research Organization (ISRO) ISRO HQ, Bengaluru, India



Notification for Student's Registrations in ISRO START Programme

Participant's registration for ISRO - Space Science and Technology Awareness Training (START) programme

ISRO encourages greater participation from academia, for generating human resources in space science and technology, expanding the user base of the space exploration mission data, and fostering an ecosystem to facilitate active participation of the students in space science and technology research. In view of this, ISRO has envisaged the Space science and Technology Awareness Training (START) programme. START is an introductory level awareness programme in space science and technology. The programme is envisaged to be organised in online mode in order to reach out to as many of the space enthusiasts as possible. Although primarily aimed at the under-graduate and post-graduate students of science and technology, the programme is designed to be suitable for any individual with a basic, systematic training in science, at least up to the high school level.

Date and Duration of online training

Online training is tentatively scheduled to be conducted during July-Aug 2023. The training programme is about 2-3 hrs / day for a duration of 2 – 3 weeks. The START programme will be conducted through ISRO E-CLASS platform (https://eclass.iirs.gov.in).

Scope

The lecture modules are thematically arranged to address different facets of space science and technology like Earth and Near-Earth Space, Solar System Exploration, Space Mission Design and Observations, Astronomy, Astrophysics, Cosmology, as well as technological aspects like accessing the space, space instrumentation, etc. In addition to these, there will be lectures on Indian space exploration programme and research opportunities in the fields of space science and technology.

Eligibility

START is aimed to reach out to the maximum beneficiaries not only to students belonging to Indian Institutions but also to any interested individuals. The students of approved nodal centres as well as individuals can register and join the online training programme by choosing the appropriate category for registration as detailed below.



Category-1: Students from approved START host institutes/nodal centres

Post-graduate students and final year under graduate students of physical sciences (Physics and Chemistry) and technology (e.g. Electronics, Computer Science, Mechanical, Applied Physics, Radiophysics, Optics & Opto-electronics, Instrumentation and other associated subjects) studying in START host institutes / nodal centres, are eligible to be considered for the training under this category. Participation certificate / merit certificate will be provided to the eligible students.

Link for registering student participants of approved nodal center: https://elearning.iirs.gov.in/edusatregistration/student

Category-2: Individuals of any background

Interested individual participants (including students who are not eligible / could not join through the category-1) of any background can directly register and attend the live sessions through Youtube Channel of IIRS- https://www.youtube.com/@edusat2004 Participation certificate will be provided to the eligible participants.

Link for registering individual participant:

https://elearning.iirs.gov.in/edusatregistration/student

Individuals while registering directly in ISRO website will automatically get the login credentials.

Category-3: Public for knowledge gain

Public can watch the live sessions of START for knowledge gain without registering in the website.

The link for watching START is - https://www.youtube.com/@edusat2004

Course Fee: START programme is offered by ISRO free of cost. There is no registration fee / admission fee.

Timeline for Participant Registration

Commencement of registration: 20th June 2023

Last date for registration: 15th July 2023

Contact- websupport@iirs.gov.in



Nanjil Catholic College of Arts and Science, Kaliyakkavilai

Department of Physics

Organised

ISRO START Inaugural program On 20th July, 2023

ISRO has launched a new introductory-level online training programme called 'Space Science and Technology Awareness Training Space science and Technology Awareness Training (START) programme aimed at post-graduate and final-year undergraduate students of physical sciences and technology. The programme will cover various domains of space science, including Astronomy & Astrophysics, Heliophysics & Sun-Earth interaction, Instrumentation, and Aeronomy. It will be delivered by the scientists from Indian academia and ISRO centres. The programme is envisaged to be organised in online mode in order to reach out to as many of the space enthusiasts as possible. In Nanjil Catholic College of Arts and Science, Kaliyakkavilai, the ISRO START inaugural program (online mode) was organised by Department of physics, on 20th July, 2023 at New seminar Hall. Registration for the program was commenced on 10 days before. The inaugural program was started at 11.30 am on 20th July, 2023. All the participants were welcomed by Dr. M Amalanathan, HoD, Department of Physics, NACCAS.

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The ISRO Chairman was the Guest of honour in the inaugural session.

During his address he stressed the need for bringing in the synergy between the Government, private industries and academia in shaping Indian space ecosystem to meet the growing demand of the country.







The program contain 21 sessions from 20th July to 7th August 2023. Each day was divided into two sessions except inaugural session. Assistant Professors, research scholars and Final year UG, PG students were participated in this program. 28 students were actively participated in this program. As an expression of gratitude, thanks was given by Dr. N.Suma, coordinator of the program and Asst. Prof., Dept. of Physics, Nanjil Catholic College of Arts and Science, Kaliyakkavilai. The program was ended with National Anthem.

Department of Physics.
Nanjii Catholic College of Arts & Science,
Kaliyakkavilai - 629 153, Tamii Nadu





Govt. of India Dept. of Space Indian Space Research Organization (ISRO)

Date: July 19, 2023

Space Science Technology & AwaReness Training (START) Programme - 2023 Schedule

Date	Lecture No.	Time	Speaker	Topic		
July 20,	INAUGURATION (11:30 - 12:00 hrs)					
2023, Thursday	1	12:00-13:00 hrs Plus 20 minutes of interaction	Dr.Tirtha Pratim Das	"India's Space Exploration Endeavour: Context of ISRO's START programme		
July 21, 2023, Plus 20 minutes of interaction	Dr. Suresh Babu	Space observations of Geosphere - Biosphere - atmosphere interactions and climate				
Friday		Dr. P. K. Mohanty	Introduction to Cosmic Rays			
July 24, 2023,	4	11:00 to 13:00 hours; Plus 20 minutes of interaction	Dr. Tarun Kumar Pant	Earth's Ionosphere, Magnetosphere, Sun-Earth interaction and Space Weather		
Monday	5 15:00 to 16:00 Prof Archana Bhattacharrya Prof Archana	Earth's magnetic field & Geospace				
July 25, 2023, Tuesday	6	11:00 to 12:00 hours; Plus 20 minutes of interaction	Dr. R.P. Singh	Introduction to Remote Sensing of Earth and planetary bodies		
	7	15:00 to 16:00 hours; Plus 20 minutes of interaction	Mr. Sheeju Chandran	Rockets to access the Near- Earth Space: Sounding Rockets & Launch Vehicles		
July 26, 2023, Wednesday	8	11:00 to 12:00 hours; Plus 20 minutes of interaction	Dr. S. A. Ilangovan	Chemistry in Space Technology		



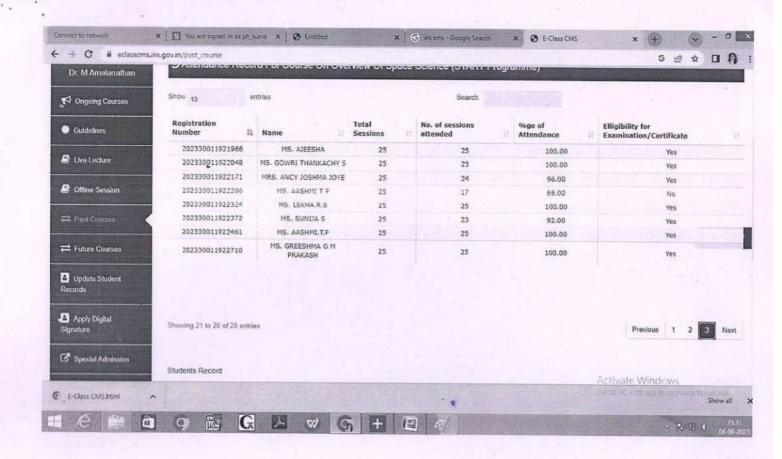
	9 .	15:00 to 16:00 hours; Plus 20 minutes of interaction	Prof.Bhala Sivaraman	Chemistry in Space Science
July 27, 2023, Thursday	10	11:00 to 12:00 hours; Plus 20 minutes of interaction	Dr. K. Sankarasubramanian	The Sun
	11	15:00 to 16:00 hours; Plus 20 minutes of interaction	Prof. Debabrata Banerjee	The Solar System: Formation, evolution and the present state
July 28, 2023, Friday	12	11:00 to 12:00 hours; Plus 20 minutes of interaction	Dr. Tirtha Pratim Das	Scientific Payload development for Solar System Exploration
	13	15:00 to 16:00 hours; Plus 20 minutes of interaction	Prof. Varum Sheel	Planets in the Solar System
July 31, 2023, Monday	14	11:00 to 12:00 hours; Plus 20 minutes of interaction	Prof. Ramananda Chakrabarti	Origin and Evolution of the Moon
	15	15:00 to 16:00 hours; Plus 20 minutes of interaction	Dr. Kinsuk Acharya	Minor Bodies in the Solar System – Asteroids, Comets and Meteors
August 01, 2023, Tuesday	16	11:00 to 12:00 hours; Plus 20 minutes of interaction	Dr. Ritu Karidhal	Mission Design for Space Exploration
	17	15:00 to 16:00 hours;Plus 20 minutes of interaction	Dr. V. Girish	Observational Techniques for Space Science
August 02, 2023, Wednesday	18	11:00 to 13:00 hours; Plus 20 minutes of interaction	Dr. R. Niruj Mohan	Basics of Astronomy & Astrophysics
August 03, 2023, Thursday	19	11:00 to 12:00 hours; Plus 20 minutes of interaction	Dr. Aravind Singh Rajpurohit,	Exoplanets and Earth-like Exoplanets
	20	15:00 to 16:00 hours; Plus 20 minutes of interaction	Prof. Sudha Rajamani	Introduction to Astrobiology and Search of Life Beyond Earth
August 04, 2023, Friday	21	11:00 to 12:00 hours; Plus 20 minutes of interaction	Dr. K. Praveen Kumar	Research Opportunities in Space Science and Technologies



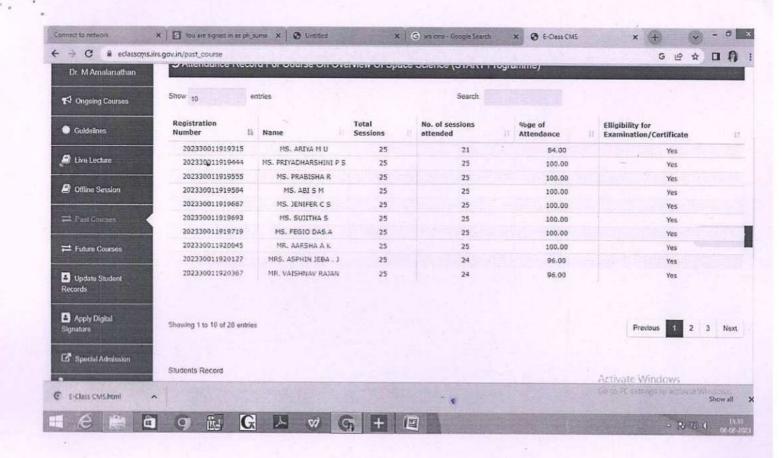


	22	15:00 to 16:00 hours; Plus 20 minutes of interaction	Prof. Tarun Sauradeep	Introduction to Cosmology
August 07,2023 Monday	23	14:00 to 15:00 hours;	Concluding Session	

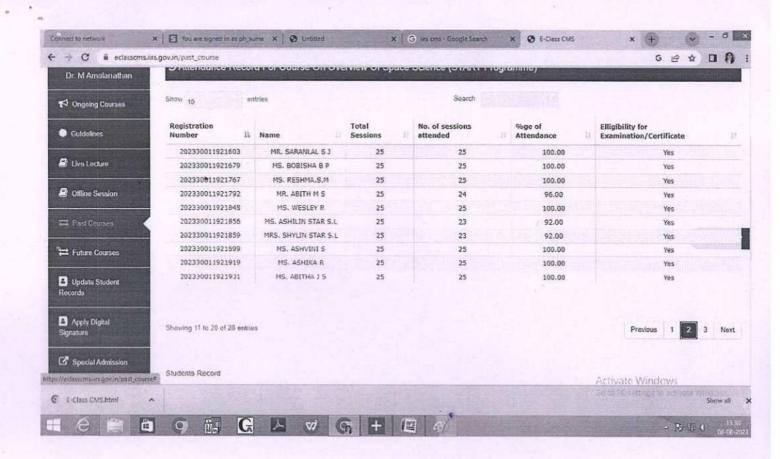


















भारत सरकार/GOVERNMENT OF INDIA अंतरिक्ष विभाग/DEPARTMENT OF SPACE भारतीय अंतरिक्ष अनुसंधान संगठन /INDIAN SPACE RESEARCH ORGANISATION (ISRO)





CERTIFICATE OF MERIT

नामांकन सं. / Enrolment No. :

202330011919444

SPACESCIENCE AND TECHNOLOGY AWARENESS TRAINING (START)
यह प्रमाणपत्र

MS. PRIYADHARSHINI P S

(नानजिल कैथोलिक कॉलेज ऑफ आर्ट्स एंड साइंस)

को "अंतरिक्ष विज्ञान और प्रौद्योगिकी का अवलोकन "

मे ऑनलाईन प्रशिक्षण कार्यक्रम में भाग लेने पर प्रदान किया जाता है।

इस ऑनलाइन प्रशिक्षण कार्यक्रम का आयोजन 20-07-2023 से 07-08-2023 (कुल पाठचक्रम की अविध = 22 घंटे) के दौरान किया गया।

THIS CERTIFICATE IS

AWARDED TO

MS. PRIYADHARSHINI P S

(Nanjil Catholic College of Arts and Science)

ON HAVING PARTICIPATED IN THE ONLINE TRAINING PROGRAMME ON

"Overview of Space Science and Technology"

THIS ONLINE TRAINING PROGRAMME WAS CONDUCTED DURING **20-07-2023 to 07-08-2023** (Total course duration = 22 hours).

EXAM GRADE: E

ATTENDANCE: 100 %

दिनांक/Date: 10-10-2023

स्थान/Place: ISRO HQ, Bangalore

समन्वयक / Coordinator

इसरो स्टार्ट नोडल सेंटर/ISRO START Nodal Center

निदेशक/ Director

एसपीओ, इसरो मुख्यालय / SPO, ISRO HQ Bangalore

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*>80% -(A+), 70-80% -(A), 60-70% -(B+), 50-60% -(B)