Indian Institute of Space Science and Technology

Declared as Deemed to be University under Section 3 of the UGC Act, 1956
An Autonomous Institute under Department of Space, Govt. of India
Valiamala, Thiruvananthapuram 695 547, Kerala

UG Admission Brochure

2023

Vision & Mission

Vision

To be a world class educational and research institution contributing significantly to the nation's space endeavours.

Mission

- Create a unique learning environment enriched by the challenges of the space programme.
- Nurture the spirit of innovation and creativity.
- Establish Centers of Excellence in niche areas.
- Provide ethical and value based education.
- Promote activities to address societal needs.
- Network with national and international institutions of repute.

Key Functionaries

Shri. S. Somanath
President, IIST Governing Body
Chairman, IIST Governing Council
Secretary, DoS / Chairman, ISRO

Dr. B. N. Suresh
Chancellor

Dr. S. Unnikrishnan Nair
Director, Chairman
Board of Management

Prof. Y. V. N Krishna Murthy
Senior Professor & Registrar

Prof. A. Chandrasekar
Dean
(Academic & Continuing Education)

Prof. Raju K. George
Dean
(Research & Development, IPR)

Prof. Kuruvilla Joseph
Dean
(Student Activities,
Student Welfare & Outreach Programme)

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1 ABOUT THE INSTITUTE

Indian Institute of Space Science and Technology (IIST), situated at Thiruvananthapuram, Kerala, is a Deemed to be University under Section 3 of the UGC Act, 1956. IIST, established in 2007, functions as an autonomous institution under the Department of Space (DoS), Government of India. IIST was conceived with a vision to nurture exceptional human resource for the Indian Space Research Organization (ISRO), one of the world's leading scientific organizations engaged in space research and space applications. The institute is the first of its kind in the country to offer high quality education at the undergraduate, graduate, doctoral and post-doctoral levels on areas with special focus on space sciences, space technology and space applications.

Equipped with excellent infrastructure and about 95 highly qualified faculty members (**Table 1-1**), IIST has risen to great heights within a decade of its inception**.** It is ranked among the top 45 Engineering institutes of the country according to 2022 NIRF rankings of MHRD with a high score of more than 75% in Teaching, Learning and Resources, which is relatively superior to many premier institutes in the country. The institute currently offers three undergraduate and fifteen postgraduate programmes that are listed below.

Undergraduate Programmes

- B. Tech in Aerospace Engineering
- B. Tech in Electronics and Communication Engineering (Avionics)
- Dual Degree (B.Tech in Engineering Physics + Master of Science/ M.Tech in one of the following:
    - Master of Science in Astronomy and Astrophysics
    - Master of Science in Solid State Physics
    - M. Tech in Earth System Science
    - M. Tech in Optical Engineering

Previous years UG enrolment is shown in Table 1-2.

Postgraduate Programmes

- M.Tech. in Thermal and Propulsion
- M.Tech. in Aerodynamics and Flight Mechanics
- M.Tech. in Structures and Design
- M.Tech. in RF and Microwave Engineering
- M.Tech. in Digital Signal Processing
- M.Tech. in Control System
- M.Tech. in VLSI and Microsystems
- M.Tech. in Power Electronics
- M.Tech. in Materials Science and Technology
- M.Tech. in Earth System Science
- M.Tech. in Geoinformatics
- Master of Science in Astronomy and Astrophysics
- M.Tech. in Machine Learning and Computing
- M.Tech. in Optical Engineering
- M.Tech. in Quantum Technology

In addition, IIST has a vibrant research environment with more than 248 PhD scholars engaged in frontline research areas. The academic programs are formulated to strengthen the fundamentals, provide hands-on experience through practical work, enhance the understanding and expand the boundaries of knowledge in various areas of interest. IIST focuses on inculcating the culture of innovation in students.

All the academic labs in IIST are meticulously designed, with the best experimental set-ups and equipment. IIST has three Centres of Excellence in Advanced Propulsion and Laser Diagnostics, Virtual Reality and Nanoscience & Technology where students involve themselves in various advanced and sophisticated experiments. The many state-of-the-art research laboratories offer a unique learning environment for the students to delve into cutting-edge research. With IIST stepping into the next decade, the decadal plans promise ample opportunities to the young, bright students to get actively involved in space related projects like ARIS, InspireSAT-1, Space Robotics, Space Sensors, etc.

Visit the website www.iist.ac.in for a detailed overview of IIST and its activities.

Table 1-1 Teaching Personnel

Department	Faculty Members	Scientific/ Technical Staff
Aerospace Engineering	23	18
Avionics	23	9
Chemistry	8	5
Earth and Space Sciences	13	3
Humanities	5	0
Mathematics	11	3
Physics	12	8

Table 1-2: Undergraduate Enrolment

Year	Aerospace Engineering	Avionics/ Electronics and Communication Engineering	Physical Science/ Dual Degree	Total
2007	49	60	29	138
2008	51	64	33	148
2009	52	65	34	151
2010	53	61	34	148
2011	59	58	21	138
2012	53	54	25	132
2013	60	60	36	156
2014	60	60	33	153
2015	60	58	20	138
2016	60	60	20	140
2017	60	60	20	140
2018	60	60	20	140
2019	66	66	22	154
2020	64	63	22	149
2021	67	67	22	156
2022	72	71	24	167

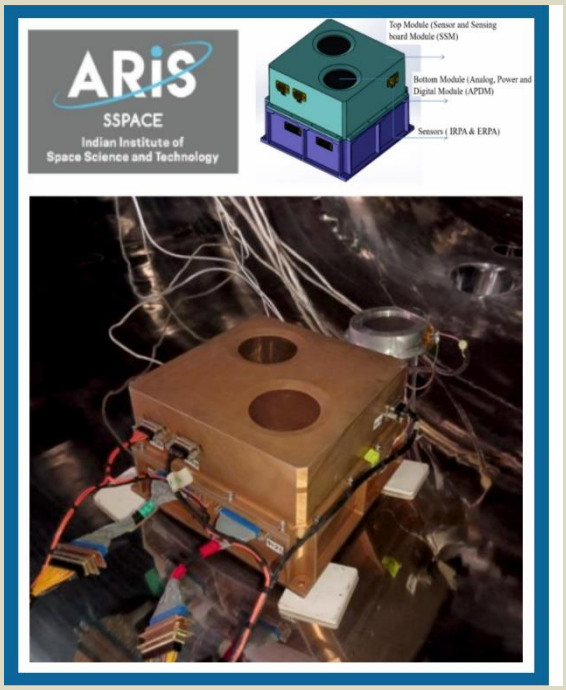
2 RESEARCH AND CURRICULUM LABORATORIES AT IIST

IIST has all the academic labs equipped with all the essential instructional rigs. Knowledgeable lab staffs keep them in prime-form. Each department has their own research labs with dedicated modern equipment, centre of excellences, to nurture the research minds of the students. A central workshop gives life to all the creative designs of the students. A High-performance computing centre caters to all the academic research in computational domain. Students perform their instructional labs, internships, projects, etc., in these labs. Apart from that students are encouraged to visit ISRO centres for their internships, projects, etc. IIST provides unique opportunities for students to have lead roles in projects of national importance such as in the design and development of Nano-satellites, Cubesats and sensors related to space application, etc. Students of earlier batches actively participated in the design of sounding rockets like Vyom Mk II.

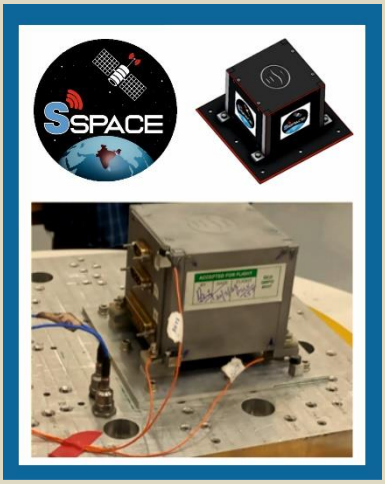
3 IIST'S SMALL SATELITES AND PAYLOADS

One of the uniqueness of the institute is that the young IISTians get a chance to participate in the development of scientific payloads and small satellites in collaboration with ISRO. Some of the payloads developed by IIST UG students are discussed here.

Recently the Department of Space announced PSLV Orbital Experimental Module (POEM) to allow the scientific community to conduct microgravity experiments in an orbit utilising the spent PS4 stage of the PSLV-CA launch vehicle. IIST's ambition aligned with that mission and our research teams quickly designed and supplied two payloads to the POEM-2023, and it got commissioned accurately on 22 April 2023.



ARIS (Advanced Retarding Potential Analyser for Ionospheric Studies) payload was conceptualized and built by a team of Inter-Disciplinary Professors (Umesh Kadhane (Physics), Sudharsan Kaarthik (ECE), Sooraj, V.S. (Aerospace), and Anoop, C.S. (ECE)) of IIST. It is an Ionospheric plasma and electrostatic instrument to study the structural and composition of the ionosphere. Earth's ionosphere is a natural detector of terrestrial phenomena and solar activities. Small and difficult-to-detect geomagnetic variations can easily be sensed in the ionosphere, such measurements are used to predict the imminent earthquakes by a few hours. Similarly, solar activity which is the main driver of the ionosphere can be studied in real-time by performing ion and electron density measurements in the ionosphere. Such measurements provide us with the warning of hazardous radiation effects on space assets, possible radiation exposure to aircraft crew and possible power grid disruptions. Real-time monitoring of Ionosphere is important. ARIS 201F was launched on 22 Apr 2023 through PSLV C55. ARIS 201F is an upgraded version of ARIS 101F which was flown to Earth's ionosphere in 2019 as part of the PSLV C45 mission. Upgradations include indigenous and in-house-built sensors with high sensitivity and high energy resolution and optimised operating parameters to receive more data in the energy range relevant to the Earth ionosphere (based on data received from ARIS 101F.

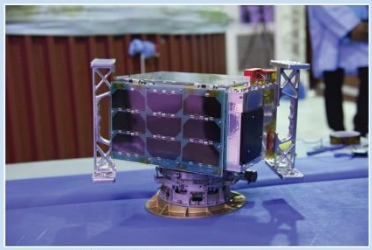


The second payload was Pslv-In-orbital Obc and Thermals (PILOT). It is a student payload to validate a thermal simulation model at real flight conditions. The main mission objectives are the following: a) To demonstrate the 3D printed metal structure performance for satellite related applications designed by IIST and fabricated by L&T Pvt. Ltd, b). To validate the thermal simulation model with flight data acquired through sensors placed at strategic locations, c) To evaluate the performance of the indigenously designed On-Board Computer (OBC) along with its flight software developed for the mission, d) To demonstrate the indigenously developed RS485 telemetry communication.

INSPIRESat-1 – a success story by IIST team

In 2015, the INSPIRE (International Satellite Program in Research and Education) program was initiated by the University of Colorado, Boulder (CU) and Laboratory for Atmospheric and Space Physics (LASP). Its objectives are to develop a constellation of small satellites along with a supportive global ground station network to aid in innovative research in spacecraft design, space systems engineering, operations, and data analysis, as well as in several educational programs. INSPIRESat-1 is a 9U CubeSat conceptualized, designed, and launched by CU/LASP, IIST (Indian Institute of Space Science and Technology), Thiruvananthapuram, Kerala, India, and NCU (National Central University), Taoyuan City, Taiwan. Its payloads are (1) DAXSS (Dual Aperture X-ray Solar Spectrometer) instrument to build knowledge on Sun's Coronal Heating process, and (2) Compact Ionosphere Probe to understand Ionosphere dynamics.

At IIST, Small-spacecraft Systems and PAyload CEnter (SSPACE), headed by Dr. Priyadarshan H, Department of Electronics and Communication Engineering (Avionics), was established as a nodal point. A dedicated group of IIST students & faculties, scientists from various ISRO centers, and a few international collaborators joined hands in the conceptualization, design, manufacturing, and launch of the INSPIRESat-1 Nano-satellite. All students involved in this program contributed creative ideas to overcome the highly complex technological challenge and gained valuable knowledge in the field of Nano-satellites. On 14 Feb 2022, INSPIRESat-1 was launched successfully into Low Earth Orbit (LEO) by the ISRO's majestic PSLV-C52, and the IIST ground station successfully established communication with the satellite.



INSPIRESat-1 at testing bay

INSPRIESat-1 Team, IIST with the ISRO Chairman, Shri. Somanath S.

INSPIRESat-1 integration with PSLV

IIST Director, Dr. Sam Dayala Dev, flagging-off ISNPIRESat-1 journey to Launch centre

Chief Student contributors

Sanidhya Vijayawat
B.Tech Avionics, 2015

Anant Kumar
B.Tech Avionics, 2016

Mallikarjun Kompella
B.Tech Avionics, 2016

Devashish Bhalla
B.Tech Aerospace, 2018

Dhruva Anantha Dutta
B.Tech Avionics, 2018

Murala Aman Naveen
B.Tech Avionics, 2018

Arosish Priyadarshan
B.Tech Avionics, 2019

Akash Mahobe
B.Tech Aerospace, 2019

ARIS Payload launch in 2019

ARIS payload was the IIST's first tryst with Space. Indigenously, an IIST team comprising of students, researchers, and faculties designed and developed an Advanced Retarding Potential Analyzer for Ionospheric Studies (ARIS) payload. On 1st April 2019, it was successfully launched to its desired orbit by ISRO's PSLV C45 rocket.

3.1 Global Opportunities

Substantial opportunities exist for undergraduate students to carry out their credited internships and projects at ISRO Centres and other premier institutes in India and abroad with funding from IIST and/or the host institutes. IIST has tie-ups with institutes like University of Colorado, Boulder, USA (CALTECH), Jet Propulsion Laboratory, California, USA, Australian National University, Canberra, Australia, and Nanyang Technological University (NTU), Singapore, for student internships.

To propel the bright minds to excel, the top academic performer of Aerospace Engineering and Electronics and Communication Engineering branches of the undergraduate programme are offered an excellent opportunity to pursue their Masters' at one of the world's renowned California Institute of Technology (Caltech), USA. The above 9-months Masters' course is financially fully supported under the DoS-Caltech Professor Satish Dhawan Endowment Fellowship. After completing the master's, those students undergo additional two-month internship at JPL which is also covered in the Professor Satish Dhawan Endowment Fellowship. On return, these students are absorbed in ISRO.

IIST undergraduate students (one from each branch) will go for a summer internship in JPL with full financial assistance. IIST UG candidates have also competed and secured international fellowships under Lockheed Martin's Undergraduate Student Visitation Program, Mitacs Globalink Research Foundation, Canada and DAAD: German Academic Exchange service, Germany, and performed internships at prestigious international academic institutes.

Undergraduate and Dual Degree students are offered performance based financial assistance for every semester (detailed in Section 11). Additionally, undergraduate and Dual Degree students, on successful completion of their degrees, have the opportunity to be absorbed into the prestigious centres of ISRO subject to availability of vacancies and fulfilment of academic criteria as described in Section 12. Also, the students can go through the IIST Placement cell for recruitments into various organizations.

4 STUDENTS GRADUATING FROM IIST

The 10th convocation ceremony of IIST was held on 17th December 2022. This year a total of 271 academic degrees in various disciplines were awarded (B. Tech – 112, Dual Degree - 20, M. Tech – 104 and Ph. D - 35). Shri. G. Madhavan Nair, Former Secretary, Department of Space/ Chairman, Indian Space Research Organisation was the Chief Guest. Dr. S. Unnikrishnan Nair, Director, IIST welcomed all the dignitaries, faculties, and students. Shri. S. Somanath, President, Governing Council, IIST, & Secretary DOS/ Chairman, ISRO. Dr. B.N. Suresh, Hon. Chancellor, IIST, the Chief Guest along with the director, IIST conveyed their best wishes to all the degree recipients and motivated them to develop cost effective & indigenous solutions to tackle the complex problems in the space field. Mr. Sri Aditya Deevi (B. Tech ECE (Avionics)) and Mr. Kiran L (Master of Science in Astronomy and Astrophysics) were the toppers in U.G and P.G respectively, and they were awarded with prestigious Gold medals. Mr. Subrahmanya V Bhide was the topper in B. Tech Aerospace, and he was presented with a Cash Award and an Excellence Certificate. Mr Abhishek A, Dual Degree (M.Tech in Optical Engineering), was adjudged the Best All-Rounder in academics, co-curricular and extra-curricular activities, and he received a Cash Award along with an Excellence Certificate.

5 ACHIEVEMENTS OF IISTIANS

1st/ 63 teams participated in Inorbit Space Station Design Challenge at the world space week organized by VSSC|LPSC|IIST|IISU

AVIGHNA is a modern multi-purpose space station concept with the prime objective of making space tourism possible along with the long term goal of Debris Management. It is highly scalable and sustainable with the flexibility of adding task specific modules as time goes by and international parties join in.

Avighna has a special design which mimics the gravitational field of earth using centrifugal force, thus letting the tourists adapt to the space environment effortlessly and keeping them healthy as well as regions of zero gravity for conducting experiments.

This design incorporates several techniques and unique structural ideas which will play a crucial role in micro debris collection as well as future debris reduction in earth's orbit.

Achievements of IISTians

The Kalam PRIZE

The topmost academic achievers of B. Tech Aerospace Engineering and Electronics and Communication Engineering (Avionics) students of IIST were provided a unique opportunity to do a nine-month Master of Science program at the world-renowned California Institute of Technology (Caltech), USA. After the M.S. program, they also undergo a two-month internship at Jet Propulsion Laboratory (JPL), a federally-funded research and development center man- aged by Caltech for NASA. Their higher studies are fully funded through DoS-Caltech Professor Satish Dhawan Endowment Fellowship, and later, they are absorbed in ISRO. California Institute of Technology (Caltech) proudly awards "The Kalam Prize" to one of the best Aerospace engineering Master's Program students whose academic performance was exemplary and showed high potential for future achievements at Caltech, USA. IIST is very proud to mention that five out of the Ten IISTians who did Master's in Aerospace Engineering at Caltech, USA had won the most coveted "The Kalam Prize".

The other winners of "The Kalam Prize"

Mr. Shashank Tomar
2022

Miss. Garima Aggarwal
2021

Mr. Padmanabha Prasanna Simha
2019

Mr. Avinash Chandra
2018

Mr. A. Chaphalkar
2014

JPL Summer Internship – May-July 2023

Buoyed by the success story of IISTians in the MS program offered by CalTech, and their contributions to the CalTech research programs, Jet propulsion Laboratory (JPL) have been extremely enthusiastic to offer two months (May-July) summer internship at their lab for three IIST undergraduate students (one in each undergraduate programme) since 2012. Those IISTians contributed their best to the JPL's research program as well as very much benefitted from their research exposure at JPL. While IIST bore the travel expenditure, visa expenses and medical insurance of the internship student, JPL supported their accommodation and incidental expenses during the internship. Since the summer of 2019, the JPL internship students are allowed to stay at CalTech campus for the entire duration of their internship. Last year, three students successfully completed the internship. In 2023, it should be the following three UG students are travelling to JPL for their internship.

Shri Rahul Kumar
3rd year, B. Tech Aerospace

Shri Nithin M
3rd year, B. Tech ECE Avionics

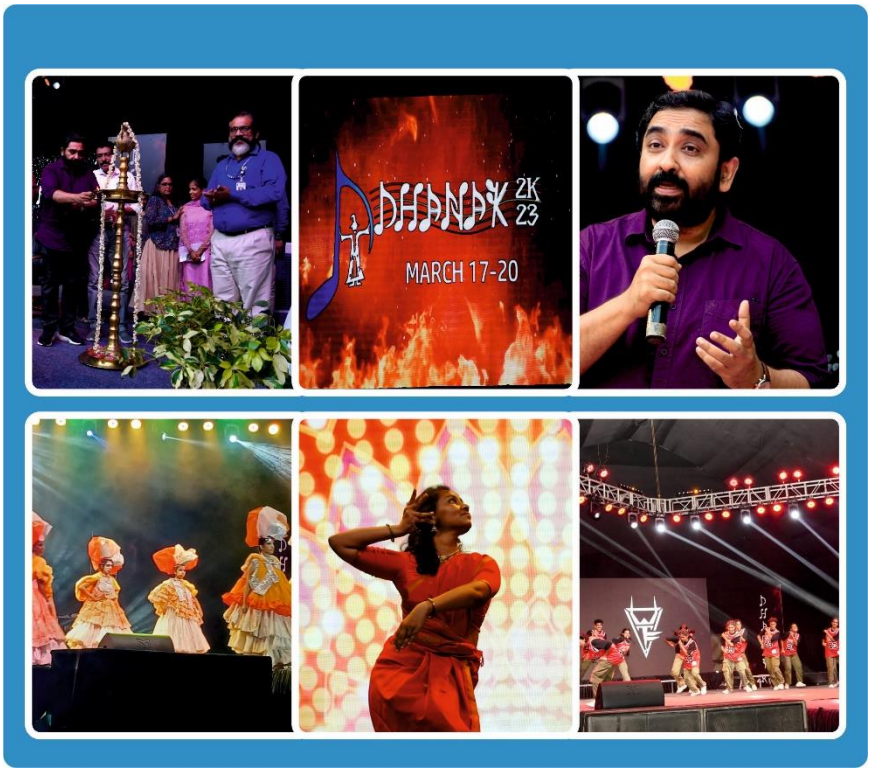
Shri Moksh Bhateja
3rd year, B. Tech Engineering Physics

6 CAMPUS LIFE

IIST is situated at Valiamala Hills. The weather is quite pleasant. Its ambience is free from pollution. IIST has dedicated boy's and girl's hostels with all the essential amenities. Student Activity Centre (SAC) has its own building. SAC building has the centralized mess facility for all the students. It has an open air theatre. It has a multi-purpose hall equipped with latest audio-video systems. It also has an indoor sports facility comprised of Gym, pool table, etc. IIST has a very good library. Clubs like Aero club, robotics club, astronomy club, and mathematics club aid in student's contribution to the real time challenges. Students are responsible for the efficient functioning of these clubs. Conscientia is an annual technical fest organized by the students. It is an event that brings out the hidden technical knowledge and talents in students apart from their regular academic commitments. DHANAK is a cultural fest celebrated by the students annually, and it helps to show cause their all-round talents other than academics. It is quite popular in the Southern parts of India. Fresher's day, and farewell day helps in

improving the bond among students. ONAM festival is a special event. On that festival day, entire IIST family compete each other in groups in Rangoli contest (only with natural flowers), participate in ONAM procession, and the celebration ends with ONAM sadya (a mouth-watering feast). Also, students celebrate all other festivals. Bus facilities are available for their weekend trips to Trivandrum. Medical facilities including student counsellors are available in the campus. CAFETERIA with its hygienic menu plays an important role in promoting friendship and also research.

DHANAK 2023



DHANAK 2023, is the Annual Cultural Fest of Indian Institute of Space Science and Technology. It was celebrated with full enthusiasm from March 17-20, 2023. DHANAK is one of the most awaited events at IIST, and this year's edition surpassed everyone’s expectations. DHANAK 2023 brought together the best of art, culture, and creativity. It provided a platform for students and faculty members from different institutions to connect, interact, and celebrate the spirit of diversity. The theme for this year was "Enchanted," an invitation to explore the mystical and magical aspects of life. DHANAK 23 had many exciting events and activities. The participants witnessed breath-taking performances, and participated thrilling competitions. The tagline for this year's event was #UnleashYourSpells, and DHANAK 23 really made the organisers and participants truly enchanted.

7 UNDERGRADUATE PROGRAMMES: AN OVERVIEW

(1) *Aerospace Engineering (AE)*

The B. Tech programme in Aerospace Engineering at IIST is oriented towards the needs of Space Technology, and has significant overlap with Mechanical Engineering. In addition to the traditional courses in Aerospace Engineering, it includes courses in Mechanical Design, Manufacturing Science, and Space Dynamics. A B. Tech degree in Aerospace Engineering enables student to specialize in Flight Mechanics, Aerodynamics, Thermal and Propulsion, Structure and Design, and Manufacturing Science. (visit https://www.iist.ac.in/academics/curricula for detailed curriculum and syllabus)

(2) *Electronics and Communication Engineering (ECE) (Avionics)*

This programme offers a well-knit symbiosis of Electrical, Electronics, Communication Engineering and Computer Science. It provides a special focus on Avionics which covers electronics related to aerospace systems. A student with a B.Tech degree in ECE can pursue higher studies in the areas of Digital Signal Processing, RF & Microwave Communications, Antenna, Power Electronics, Microelectronics, Control Systems, Computer Science and Engineering, Artificial Intelligence, Robotics, etc. (visit https://www.iist.ac.in/academics/curricula for detailed curriculum and syllabus).

(3) *Dual Degree Programme (DD)*

This programme involves the study of the combined disciplines of Physics, Mathematics and Engineering. The first year of the Dual degree programme covers basic courses in science and engineering (common for all undergraduate programmes). The second and third years of the programme will comprise mainly of foundation courses in Physics and Engineering. In the fourth year, the student will pursue one of the four postgraduate specialization streams that will lead to a Master of Science or M.Tech degree. The fifth year of the programme is dedicated to a research project in the field of specialization.

- The Master of Science Programme in Astronomy & Astrophysics aims at introducing students to the application of physics concepts to planets, stars, galaxies, and the Universe as a whole.
- The Master of Science programme in Solid State Physics is targeted towards a research career in semiconductor devices, and device physics in general. The programme is also designed as a stepping stone for students interested in pursuing advanced research in Condensed Matter Physics.
- The M. Tech programme in Earth System Science aims at introducing students to the various components of the Earth System and their interactions. Earth system is the complex system of interacting physical, chemical and biological processes in Planet Earth; manifested through its various elements such as the atmosphere, hydrosphere, geosphere and biosphere.
- The M. Tech programme in Optical Engineering is designed to meet the present and future technology requirements of the advanced optics industry, and relevant R&D organizations. Some of the technologies, students will be trained in, include, Opto-electronics, Lens design and Optical fabrication and Adaptive optics.
  (visit https://www.iist.ac.in/academics/curricula for detailed curriculum and syllabus)

8 SEAT MATRIX FOR UNDERGRADUATE PROGRAMMES IN 2023

Table 8-1 **Undergraduate and Dual Degree Programmes in 2023**

Branch	GEN/ OBC (NCL)/ SC/ ST	EWS*	PMSSS**	Women***	Total
Aerospace Engineering	60	6	3	6	75
Electronics and Communication Engineering (Avionics)	60	6	3	6	75
Dual degree	20	2	0	2	24
Total	140	14	6	14	174

Important Notes:

(i) *: From 2019 academic year and as per the directive, reservation for the Economically Weaker Sections (EWS) to the extent of 6 (six), 6 (six), and 2 (two) seats (10% of 140) in the branches of Aerospace Engineering, Electronics and Communication Engineering and Dual Degree, respectively has been implemented.

(ii) **: Beginning 2020 academic year and as per the recent directive from AICTE, supernumerary seats under the Prime Minister's Special Scholarship Scheme for Jammu & Kashmir students (PMSSS) in the branches of Aerospace Engineering and Electronics and Communication Engineering is being implemented. The selection under this category will be carried out by the PMSSS Cell of AICTE adhering to the minimum eligibility criteria prescribed by IIST (see Section 13 of the brochure).

(iii) ***: Women Supernumerary: In order to maintain a healthy boy to girl's ratio at IIST, 10% additional seats are reserved for women candidates only.

(iv) The Dual Degree Programme is a 5-year (10 Semesters) Programme. On successful completion, the students are awarded a B. Tech. degree in Engineering Physics and a Master of Science/ M.Tech. degree in one of the following four postgraduate streams:

- Master of Science in Astronomy and Astrophysics
- Master of Science in Solid State Physics
- M.Tech. in Earth System Science
- M.Tech. in Optical Engineering

Students will be allotted their postgraduate streams at the end of the sixth semester based on their preference and academic performance up to sixth semester. The seat for each of the streams will be notified to the students during the sixth semester.

There is no exit option with a B. Tech degree in Engineering Physics. However, based on academic performance, Director, IIST, has the discretion not to promote students with unsatisfactory performance to the Masters' level. These students may be allowed to exit with a B.Tech degree in Engineering Physics with specified norms worked out by the Department and approved by the Academic Council and Board of Management of IIST.

9 RESERVATION OF SEATS

As per the reservation policy of Government of India applicable to Central Educational Institutions (CEI), candidates belonging to the following categories are admitted to reserved seats based on relaxed criteria. The categories and the corresponding percentage of reservation are:

- Scheduled Castes (SC): 15%
- Scheduled Tribes (ST): 7.5%
- Other Backward Classes (OBC) belonging to Non-Creamy Layer (NCL): 27%
- Persons with Disabilities (PD): 5% (Horizontal Reservation)
- Economically Weaker Section (EWS): As below.

Beginning 2019 academic year and as per the recent directive, seats to the extent of 6 (six), 6 (six), and 2 (two) seats (10% of 140) in the branches of Aerospace Engineering, Electronics and Communication Engineering and Dual Degree, respectively, are reserved for the EWS category. The above listed categories are the **ONLY** reservation categories for admission to the undergraduate programmes at IIST. The seat matrix as per each category for UG admission 2023 is shown in Table 9-1.

Women Supernumerary: In order to maintain a healthy boy's to girl's ratio, 10% additional seats are reserved for women candidates only. The seat matrix of women supernumerary for UG admission 2023 is shown in Table 9-2.

9.1 Important Notes:

(i) *EWS Candidates:*

Eligible candidates applying under EWS category are required to produce a EWS certificate issued by a competent authority in the prescribed format given in APPENDIX–I. **Certificates in any other format will not be accepted.** The certificate (in original) must be produced at the time of verification at the specified Reporting Centres, failing which the candidature will not be considered for admission under the EWS category.

(ii) *SC/ST Candidates:*

Candidates belonging to SC/ST categories are required to produce the original Scheduled caste/ tribe certificate issued by a competent authority in the prescribed format given in APPENDIX–II. **Certificates in any other format will not be accepted.** The documents (in original), must be produced at the time of verification at the specified Reporting Centres, failing which the candidature will be cancelled. Seats remaining vacant under ST category shall be allotted to SC candidates. Seats remaining vacant under the SC/ST categories shall not be filled by candidates belonging to any other category.

(iii) *OBC-NCL Candidates:*

Under the OBC-NCL category, only castes mentioned in the Central list of OBCs, published by the Department of Personnel and Training, Government of India, will be considered. In addition, the candidate should also satisfy the condition of non-creamy layer as defined by the Government of India. Seats remaining vacant under this category shall be allotted to General candidates.

The OBC-NCL candidates seeking the benefits of reservation are required to produce the **original certificate issued on or after 1st April, 2023** by a competent authority in the prescribed format given in APPENDIX–III. **Certificates in any other format will not be accepted.** The certificate (in original) must be produced at the time of verification at the specified Reporting Centres, failing

which the candidature will not be considered for admission under the OBC-NCL category. Candidates belonging to the OBC-NCL category are also required to submit a declaration/ undertaking in the format given in APPENDIX–IV.

(iv) *PD Candidates:*

5% seats are reserved (horizontal reservation) for Persons with Disabilities candidates. The benefit of reservation would be given only to those who have **at least 40% physical impairment**. Candidates seeking benefit under this category are required to produce **original certificates, issued by a district medical board/ competent authority,** at the time of verification at the specified Reporting Centres, failing which the candidature will not be considered for admission under the PD category.

Table 9-1 **Category-wise seat matrix**

Academic Programme	**General**	**OBC-NCL**	**SC**	**ST**	**Total**	**EWS***	**PMSSS****
Aerospace Engineering	30 (1)	16 (1)	9	5 (1)	60	6	3
Electronics and Communication Engineering (Avionics)	30 (1)	16 (1)	9 (1)	5	60	6	3
Dual Degree	10 (1)	6	3	1	20	2	0
Total	70	38	21	11	140	14	6

Table 9-2 **Women supernumerary*** Seat Matrix**

	GEN	**OBC**	**SC**	**ST**	**Total**
Aerospace Engineering	3	2	0	1	6
Electronics and Communication Engineering (Avionics)	3	2	1	0	6
Dual degree	1 (1)	0	1	0	2
Total	7	4	2	1	14

Important Notes:

(i) Number one in bracket indicates that one PD candidate is included.
(ii) *, ** and ***: Refer to Important Notes in section 9.1.

10 SEMESTER FEE STRUCTURE

The undergraduate and Dual Degree Fee structure for the students admitted from Academic Calendar 2023-2024 onwards and new admissions is provided in **Table 10-1**.

Table 10-1 Details of Fee Structure for UG

Description of fee	**Amount (in Rs.)**
One Time Fee	
Admission Fee (Non-Refundable)	500
Campus Development Fee	1000
Institute & Library Deposit (Refundable)	5000
Alumni Fee[1]	500
Convocation cum Degree Fee[1]	2000
Total	**9000**
Semester Fee	
Tuition Fee[2]	62500
Computer Fee	750
Internet Fee	250
Library Fee	1000
Examination Fee	500
Registration and Enrollment Fee	200
Association and Cultural Fee	500
Sports Facilitation Fee	250
Medical and Insurance Fee	2000
Total	**67950**
Hostel & Mess Fee per semester	
Hostel Establishment Charges	5000
Hostel Rent	3000
Electricity and Water Charges	750
Mess Semester(Advance) for 5 months	15000
Optional : Vacation Mess charge(per month)	3000
Total without Vacation mess charge	**23750**
Grand Total at the time of Admission	**98200**
Grand Total Every Semester	**91700**

1. Will be collected with the final semester fee
2. Tuition Fee
   a. UR /EWS/ OBC-NCL parental annual income >Rs. 5.0 Lakh : Tuition Fee - Rs. 62500.00
   b. UR/EWS/OBC-NCL parental annual income ≤Rs. 5.0 Lakh: Tuition Fee - Rs. 20850.00
   c. UR/EWS/OBC-NCL parental annual income <Rs. 1.0 Lakh: Tuition Fee - NIL
   d. SC/ST/PD: No Tuition Fee

   Tuition fee waiver for UR/EWS/OBC-NCL categories as per above table will be applied after the verification of Parental Annual Income
3. Supplementary Examination Fees: Rs. 100.0 per paper

Important Notes:

(i) The First Semester Fee has to be paid through online transfer at the time of acceptance of allotted seat during the admission process. Fees for the remaining semesters have to be paid at the beginning of each semester before the notified date.

(ii) Amount to be paid at the time of admission:

- GEN/OBC/EWS: Rs 20700.00 ((one-time fee-(convocation + alumni))+(semester fee-tuition fee)+hostel establishment fee + hostel Rent + Electricity)
- SC/ST/PD: Rs. 20700.00

(iii) The rest of the amount need to be paid while joining the institute

(iv) Hostel and Dining charges are applicable only for the academic period of the semester and hence will not cover expenses incurred during the vacation period, except at the end of sixth semester, when students undertake credited Summer Internships.

(v) Except Tuition Fee, the other components are subject to revision, and any changes will be informed well in advance.

11 MERIT SCHOLARSHIPS

A. The top 5 students (UG/DD) admitted in 2023-24 who have secured AIR (All India Rank, in JEE Advanced Examination, 2023) up to 1000 would be entitled to full fee waiver for the first year. However, they have to maintain a CGPA of 9.0 and above in a scale of 10 at the end of each year in order to obtain full fee waiver for the subsequent year.

B. Students (UG/DD) admitted in 2023-24 and securing a CGPA of 9.0 or higher (in the scale of 10) **in a given semester** would receive a 50 percent tuition fee waiver in the next semester. The number of waivers shall be limited to ten percent (10%) of the admitted students in each program.

12 ISRO/ DOS ABSORPTION POLICY

Based on notified vacancies in different specializations, by ISRO/DOS, undergraduate and Dual Degree (viz. B.Tech in Aerospace, B.Tech in Electronics &Communication Engineering (Avionics) and Dual Degree in Astronomy & Astrophysics, Earth System Science, Solid State Physics, and Optical Engineering) students will be eligible for recruitment to the post of Scientist/ Engineer-SC, subject to fulfilment of the following conditions applicable to **ALL** categories of students:

i. Interested students securing a CGPA of 7.0 or above (on a scale of 10) at the end of sixth (B.Tech)/ eighth (DD) semester will be eligible to appear for a job placement interview organized by ISRO Headquarters.

ii. The eligible candidates will be interviewed by the ISRO Expert Committee and panel list will be prepared accordingly.

iii. Posting of the candidates to Centres/Units shall be notified by ISRO Headquarters.

iv. Students should secure minimum Cumulative Grade Point Average (CGPA) of 7.5 (on a scale of 10) at the end of B.Tech/ Dual Degree Programmes & should successfully complete the B.Tech and Dual Degree Programmes in 4 (four) and 5 (five) years, respectively to be eligible for issue of offer letter.

v. Students are also required to be fully medically fit as per ISRO norms.

13 ELIGIBILITY FOR ADMISSION

Candidates desirous of admission to IIST must satisfy **ALL** eligibility criteria detailed below.

1. **Citizenship:** Indian citizens are eligible to apply for admission in IIST.
2. **Eligibility criterion for the Overseas Citizens of India (OCI)/Person of Indian Origin (PIO) card holders** are as follows:
    - Candidates who possesses OCI/PIO card can apply for the UG program.
    - The selection of the candidates who possesses OCI/PIO card will be based on JEE (Advanced) 2023 Examination and the candidates will be considered only in the GENERAL category only.
    - The candidates who possesses OCI/PIO card have to pay the full amount of Fee which includes onetime fee, Semester fee and Hostel and Mess fee.
    - As per Govt. of India guidelines, only Indian citizens can be appointed for Govt. of India jobs. Hence, B. Tech and Dual Degree students graduating from IIST and having OCI/PIO card will not be eligible for ISRO/DOS absorption.
3. **Date of Birth:** Candidates belonging to General, EWS and OBC-NCL categories must have been born **on or after October 1, 1998**. Candidates belonging to SC/ ST and PD categories must have born **on or after October 1, 1993**.

The date of birth as recorded in the certificate of high school/ first Board/ or its equivalent will be accepted. If the certificate does not mention the date of birth, candidate must, at the time of accepting the seat, submit an authenticated document from a competent authority indicating the same.

4. **Minimum Marks Requirement in Qualifying Examination:**

Candidates must have secured at least 75% aggregate marks in the Class XII (or equivalent – see below for list of Qualifying Examinations) Board examination. The aggregate marks for SC, ST and PD candidates should be at least 65%. The marks scored in the following five subjects will be considered for calculating the aggregate marks:

- Physics
- Chemistry
- Mathematics
- A language (if the candidate has taken more than one language, then the language with the higher marks will be considered)
- Any subject other than the above four (the subject with the highest marks will be considered)

5. **Important Notes:**
    i. For calculation of aggregate marks, if the mark awarded in a subject is not out of 100, then the mark will be scaled (up or down) to 100 so that the total aggregate mark is out of 500.
    ii. In case a Board awards only letter grades without providing an equivalent percentage of marks on the grade sheet, the candidate should obtain a certificate from the Board specifying the equivalent marks and submit the same at the time of admission.
    iii. For candidates who appeared in the Class XII (or equivalent) Board examination in 2022 but reappeared in 2023, the best of the two performances will be considered.
    iv. In case a Board gives aggregate marks considering both Class XI and Class XII examinations (in the 10+2 system), then only Class XII marks will be considered.
    v. In case a Board does not give marks scored in individual subjects but gives only the aggregate marks, then the aggregate marks given by the Board will be considered as such.
    vi. If a candidate passes Class XII (or equivalent) in 2022, but writes any of the required subjects (mentioned above) in 2023 for improvement or any other reason, then the

aggregate percentage will be calculated by considering the best of the two performances in the required subjects.

vii. For any other cases, the decision taken by the IIST Admission Committee will be considered final.

6. **List of Qualifying Examinations:** Any one of the following will be accepted as the Qualifying Examination:

- The final examination of the 10+2 system, conducted by any recognized central/ State Board, such as Central Board of Secondary Education, New Delhi; Council for the Indian School Certificate Examinations, New Delhi; etc.
- Intermediate or two-year Pre-University examination conducted by a recognized Board/ University.
- Final examination of the two-year course of the Joint Services Wing of the National Defence Academy.
- Senior Secondary School Examination conducted by the National Institute of Open Schooling with a minimum of five subjects.
- Any Public School/ Board/ University examination in India or in any foreign country recognized as equivalent to the 10+2 system by the Association of Indian Universities (AIU).
- H.S.C. vocational examination.
- General Certificate Education (GCE) examination (London/ Cambridge/ Sri Lanka) at the Advanced (A) level.
- High School Certificate Examination of the Cambridge University or International Baccalaureate Diploma of the International Baccalaureate Office, Geneva.

In case the relevant Qualifying Examination is not a public examination, the candidate must have passed at least one public (Board or Pre-University) examination at an earlier level.

7. **Minimum Marks Requirement in JEE (Advanced) 2023 Examination**

Candidates should have appeared for the **Joint Entrance Examination (Main)-2023** conducted by National Testing Agency (NTA), to qualify themselves to appear for the **Joint Entrance Examination (Advanced) - 2023** conducted by **IITs** and secure the minimum prescribed marks reported in Table 13-1 and Table 13-2.

Table 13-1 Minimum Marks Requirement in JEE (Advanced)–2023 Exam

Sl No.	Category	Minimum Marks
1.	General	At least 14% marks in aggregate and at least 3% marks in each of the three subjects (Physics, Chemistry and Mathematics)
2.	EWS/ OBC-NCL	At least 12.6% marks in aggregate and at least 2.7% marks in each of the three subjects (Physics, Chemistry and Mathematics)
3.	SC/ ST/ PD	At least 7% marks in aggregate and at least 1.5% marks in each of the three subjects (Physics, Chemistry and Mathematics)

Table 13-2 Minimum Marks Requirement in JEE (Advanced)–2023 Exam

IIST **Cut-off Marks** in JEE (Advanced) 2023				
Category	**Physics**	**Chemistry**	**Mathematics**	**Aggregate**
General	3	3	3	50
EWS/ OBC-NCL	3	3	3	45
SC/ ST/ PD	1	1	1	25

14 IMPORTANT DATES

The important dates of **Undergraduate Admission 2023** is presented in Table 14-1.

Table 14-1 Important Dates of Undergraduate Admission 2023

JEE Advanced Result	June 18, 2023 (Sunday)
Opening of Online Registration and Filling-in of Branch Preferences	June 18, 2023, 10:00 Hrs
Closing of Online Registration	June 28, 2023, 23:59 Hrs
Publication of IIST Admission Rank List	June 29, 2023, 17:00 Hrs
Closing date for Modification of Branch Preferences	June 30, 2023, 23:59 Hrs
Seat Allotment/ Acceptance rounds	Seat Allotment/Acceptance rounds is tentatively scheduled to start from July 03, 2023 - July 27, 2023
Re-validation of registration of Waiting List Candidates	
Joining IIST	August 07, 2023, (Reporting Time:10:00 Hrs)
Spot Admissions Notification, if required (in case of vacancies)	July 28, 2023, 14:00 Hrs
Spot Admissions Registration, if required (Applicable only for remaining wait-listed candidates after last round of seat allotment)	July 29, 2023, 09:00 Hrs –August 02, 2023 , 23:59 Hrs
Spot Admissions, if required. (Online) (Applicable only for remaining wait-listed candidates after last round of seat allotment)	August 03, 2023 -August 07, 2023
Closing of Admission	August 07, 2023
Commencement of Classes	August 16, 2023
Induction Programme	August 07, 2023 -August 11, 2023

Important Notes:

(i) The above dates are tentative. Any change of date will be indicated in the IIST Admission website. Candidates are advised to check the website regularly

15 ONLINE ADMISSION PROCEDURE

Candidates who are desirous to join the Undergraduate and Dual Degree Programmes offered by IIST are required to apply separately to IIST through the online application portal (http://admission.iist.ac.in) and follow the steps detailed below:

(1) **Registration:**

Visit the online application portal (http://admission.iist.ac.in) and choose the link to **Undergraduate Admission** 2023. Follow the instructions given and fill in all the details. The successfully registered candidates will be given a system generated IIST Registration Number. Candidates need to specify a password. It is the sole responsibility of the candidate to keep the password secured to avoid any misuse.

Candidates are required to upload soft copy of the same photograph that they have used for JEE (Advanced) 2023 registration.

Candidates are advised to carefully read the eligibility criteria detailed in Section 13 before registration.

(2) **Registration Fee Payment:**

Registration Fee payment is through e-payment mode **ONLY** and should be done by visiting the online application portal (http://admission.iist.ac.in) and clicking on the **PAY REGISTRATION FEE** link. Receipt of payment will be confirmed through registered E-mail and mobile number.

The Registration Fee is non-refundable and is detailed in Table 15-1 for the various categories.

Table 15-1 **Registration Fee**

Sl No.	Category	Amount (INR)
1.	Male candidates in General/ EWS/ OBC-NCL	600
2.	Female candidates in General/ EWS/ OBC-NCL	300
3.	All SC/ ST/ PD candidates	300

(3) **Publication of IIST Admission Rank List:**

- Category-wise IIST Admission Rank List will be generated **ONLY** for those eligible candidates who are successfully registered online and have paid the Registration Fee.
- IIST Admission Rank List will be prepared based on the aggregate marks scored in JEE (Advanced) **2023** Examination subject to satisfying the minimum marks prescribed in Table 13-1 and Table 13-2.
- Tie between candidates securing the same aggregate marks will be resolved by applying the procedure indicated below one at a time in the descending order
  - Higher rank will be assigned to the candidate who has secured higher marks in Mathematics.
  - Higher rank will be assigned to the candidate who has secured higher marks in Physics.
  - Higher rank will be assigned to the candidate who secured higher rank in JEE (Main)– **2023** Examination, in the respective category.

- IIST UG Admission statistics is provided in Table 15-2 for the previous three years

Table 15-2**: IIST UG Admission Statistics**

Opening and Closing Percentage of JEE (Advanced) Marks for 2022, 2021 and 2020

Opening and closing Percentage of JEE Advanced 2022 marks

Category	**Bachelor of Technology (B. Tech)**				**Dual Degree (B.Tech + Master of Science/ Master of Technology**	
	Aerospace Engineering		Electronics and Communication Engg			
	Open (%)	Close (%)	Open (%)	Close (%)	Open (%)	Close (%)
General	53.61	21.39	29.44	20.83	31.94	19.72
EWS	20.28	18.06	20.83	18.06	18.06	17.78
OBC	20.28	17.50	20.28	17.22	18.61	17.22
SC	18.89	11.67	13.89	11.39	10.83	10.28
ST	13.06	9.44	10.00	9.44	8.61	8.61

Opening and closing Percentage of JEE Advanced 2021 marks

Category	**Bachelor of Technology (B. Tech)**				**Dual Degree (B.Tech + Master of Science/ Master of Technology**	
	Aerospace Engineering		Electronics and Communication Engg			
	Open (%)	Close (%)	Open (%)	Close (%)	Open (%)	Close (%)
General	46.67	26.94	50.83	26.39	41.67	27.22
EWS	25.28	23.89	25.00	23.06	22.78	22.78
OBC	26.67	20.28	24.44	20.00	25.56	19.44
SC	20.83	10.83	14.72	9.72	21.94	13.33
ST	21.11	8.89	8.33	8.33	8.06	8.06

Opening and closing Percentage of JEE Advanced 2020 marks

Category	**Bachelor of Technology (B. Tech)**				**Dual Degree (B.Tech + Master of Science/ Master of Technology**	
	Aerospace Engineering		Electronics and Communication Engg			
	Open (%)	Close (%)	Open (%)	Close (%)	Open (%)	Close (%)
General	39.9	29.80	45.45	28.28	37.88	28.79
EWS	29.29	24.75	28.03	23.48	24.24	23.23
OBC	28.28	21.72	26.77	21.46	25.00	21.21
SC	24.75	10.35	19.95	9.85	15.66	11.11
ST	-	-	-	-	13.13	13.13

(4) **Filling-in of Branch Preferences:**

- Candidates whose names appear in IIST Admission Rank List are required to fill in their choice of branch in order of preference for the Undergraduate and Dual Degree Programmes during time of registration. Registration **WILL NOT** be completed without the choice of branch preference. Last date for modifying branch preference is specified in Table 14-1.
- After the culmination of the specified dates given in Table 14-1, the preferences will be locked. **No further change of choice/ preference will be entertained.**
- Candidates are strongly advised to choose the branch as per their interest.
- **It is NOT mandatory to fill-in all three choices.**

(5) **Seat Allotment/ Acceptance Rounds:**

- Detailed schedule for seat allotment/ acceptance rounds will be announced on the website.
- Based on available vacancies, seat allocation to the three branches will be done in order of merit as per the preferences filled-in by the candidates.
- Candidates who are satisfied with the seat allotment are required to choose the **FREEZE** option and proceed to confirm seat acceptance.
- **Candidates who choose the FREEZE option will not be further considered for their higher preferences, if any. Candidates are advised to be sure before choosing this option.**
- Candidates who wish to be considered for their higher preferences but would like to confirm their allotted seat are required to choose the **SLIDE** option and proceed to confirm seat acceptance.
- **Based on the vacancies available and on the basis of merit, branch choice will automatically SLIDE UP as per the preference order filled-in by the candidates. This will also hold after joining IIST till the closing of UG Admission-2023.**
- Candidates opting for the **FREEZE** or **SLIDE** options during a seat allocation round are required to **accept the seat** by following the process detailed below:
  - Candidates (all categories) are required to make an online payment of First Semester Fee amounting to INR 20700 (rest of the amount will be collected on arrival at IIST) before the specified date/time which will be notified on the website. **Failure to remit the First Semester Fee will amount to forfeiting the allotted seat and candidate will not be considered for any further seat allotment.**
  - The above payment is through e-payment mode **ONLY** and should be done by visiting the online application portal (http://admission.iist.ac.in) and clicking on the **FIRST SEMESTER FEE** link. Receipt of payment will be confirmed through registered E-mail and mobile number.
  - Candidates are required to upload scanned copies of the following documents before the specified date/ time which will be notified on the website.
    - Class X certificate if the date of birth is mentioned in it OR birth certificate.
    - Class XII (or equivalent examination) mark sheets (for those who appeared for this examination in **2022 and/or 2023**).
    - Category (EWS/OBC-NCL/SC/ST/PD) certificates.
    - Transfer Certificate from the institute last attended.
    - Candidate's AADHAR Card.
  - Documents should be uploaded by clicking on the **UPLOAD DOCUMENTS** link.
  - On successful verification of documents, a provisional ADMIT CARD will be generated.
  - On intimation, the candidates can download the same by logging into the Online Admission Portal.
  - Candidates will be required to produce the ADMIT CARD at the time of joining IIST.

- All registered candidates who are in the published Waiting List are required to confirm their willingness to be considered in the subsequent rounds of seat allotment by logging into the Online Admission portal and selecting the **RE-VALIDATE** option on specified dates which will be notified on the website.
- **Candidates who do not RE-VALIDATE their registrations within the specified dates will not be included in the subsequent Waiting List and hence shall NOT be considered for further admission.**

(6) **Seat Allocation shift from Category to General:**

- For candidates who are allotted and accepted seats under the reserved category by choosing the FREEZE option, their higher preference(s) from category and general rank list will be removed. In subsequent rounds, based on available vacancies, if they secure a seat under the general category then they will be shifted to the general category and vacate the allotted seat under the reserved category.
- For candidates who are allotted and accepted seats under the reserved category by choosing the SLIDE option, their higher preferences in both the category and general rank list will be retained. In subsequent rounds, based on available vacancies, seat allotment and shift to general category will proceed as above.

(7) **Forfeiture of accepted Seats:**

Candidates who have accepted the seat by remitting the First Semester Fee and who wish to forfeit their accepted seat can visit the Online Admission portal and select the **WITHDRAWAL** option and fill the Withdrawal Form indicating their bank account details for fee refund. The refund policy (as per UGC guidelines) is given in **Table 15-3**. The amount will be deducted from the paid First Semester Fee*.

Table 15-3 Refund Policy for UG Admission 2023-2024*

S.No	Percentage of Refund of Aggregate Fees	Point of time when notice of withdrawal of admission by candidate	Amount to be deducted
1	100%	15 days or more before the formally notified last date of admission	Rs 1000/- as Processing Charge
2	90%	Less than 15 days before the formally notified last date of admission	10% of the fees + Medical + proportionate Hostel charges.
3	80%	15 days or less after the formally notified last date of admission	20% of the fees + Medical + proportionate Hostel charges.
4	50%	30 days or less but more than 15 days, after the formally notified last date of admission	50% of the fees + Medical + proportionate Hostel charges.
5	0%	More than 30 days after the formally notified last date of admission	No Refund of Fees after 30 days from the formally notified last date of admission

*** Subject to changes according to the UGC guidelines available at the time of admission.**

16 SCHEDULE FOR SEAT ALLOTMENT/ ACCEPTANCE ROUNDS

Tentative date for starting of Seat allotment/acceptance is indicated in Table 14-1. The detailed schedule will be uploaded on the website.

17 ONLINE SPOT ADMISSION

At the end of the regular seat allotment online rounds, if there any vacancy exists, then those seats will be filled through online spot admission process. All the candidates who are in the IIST UG admission 2023 WAITING LIST are eligible to participate in the spot admissions. The candidates in the waiting list who are aspiring for a seat shall register themselves for the spot admission rounds on the admission portal with their login credentials by paying the fees as mentioned in Table 17-1. **The spot registration fees will be returned to all the candidates who registered for the spot admission rounds after the closure of UG admission 2023. The spot registration fees will be returned to the candidate's bank account irrespective of whether they got admitted or not in IIST**. The refund procedure may take a longer duration.

Table 17-1 **Spot Registration Fee**

Sl No.	Category	Amount (INR)
1.	All candidates in General/ EWS/ OBC-NCL	2000
2.	All SC/ ST/ PD candidates	1000

18 JOINING IIST

Candidates, who have accepted the seat allotment, are required to join IIST on the date specified in Table 14-1. Candidates are required to submit a Medical Examination Report in the prescribed format (will be provided during their admission) before the date intimated during the admission.

19 PLACEMENT

Till 2022, the students, who secured a minimum CGPA criterion, are absorbed in different ISRO centres. Till now, 1247 students got absorbed in various ISRO centres. In the last year, 96 students got into the elite club and the details are provided in **Table 19-1**.

Table 19-1 ISRO/ DOS Absorption Details (2011-2023)

Year	AE	AV/ ECE*	PS/DD**	Total
2011	41	54	22	117
2012	42	52	30	124
2013	39	54	29	122
2014	35	43	26	104
2015	44	45	13	102
2016	43	39	21	103
2017	39	42	23	104
2018	36	33		69
2019	42	38	26	106
2020	38	43	19	100
2021	42	34	11	87
2022	38	40	15	93

*B.Tech Avionics was renamed as Electronics and Communication Engineering (Avionics) in 2018.

**In 2014, B.Tech in Physical Sciences (PS) was revamped into a 5 year Dual Degree Programme. The first batch who joined in 2014, graduated in 2019.

From 2021 admissions onwards, the absorption to DOS/ISRO has been revised and for more information refer to section 12.

The placement cell serves as an interface with different companies to facilitate campus placements for the students of IIST. Some of the companies visited IIST for the campus interview in the past few years are listed below. More details can be found at https://iist.ac.in/placementcell

Companies that visited IIST

20 CONTACT DETAILS

Contact Address	Chairperson, UG Admissions Indian Institute of Space Science and Technology Valiamala (P.O.), Thiruvananthapuram – 695547 Kerala, INDIA
E-Mail	ugadmission@iist.ac.in **Queries will be answered via E-mail ONLY**
Help Desk Contact numbers	**Landline Numbers:** 0471-2568477, 478, 618, 418 (Monday to Friday from 9:30 a.m to 5:00 p.m) **Fax:** 0471-2568556 **Help Desk will assist ONLY in Online Admission Procedure. Other queries will be accepted and answered over E-mail ONLY.**

21 DISPUTE REDRESSAL

Any complaints, grievances, etc. related to Admission to IIST must be referred to the Chairperson, Undergraduate Admissions–2023, IIST. Director, IIST will be the appellate authority with respect to such complaints. The courts having their jurisdiction at Thiruvananthapuram alone can adjudicate on all matters related to IIST Admission.

22 APPENDICES

APPENDIX - I **FORM-GEN-EWS**

Government of .....
(Name & Address of the authority issuing the certificate)

INCOME & ASSET CERTIFICATE TO BE PRODUCED BY ECONOMICALLY WEAKER SECTIONS

Certificate No. _____ Date: _____

VALID FOR THE YEAR _____

1. This is to certify that Shri/Smt./Kumari _____ son/daughter/wife of _____ permanent resident of _____, Village/Street _____ Post Office _____ District _____ in the State/Union Territory _____ Pin Code _____ whose photograph in attested below belongs to Economically Weaker Sections, since the gross annual income* of his/her **"family"**** is below Rs. 8 lakh (Rupees Eight Lakh only) for the financial year _____. His/her family does not own or possess any of the following assets***:

I. 5 acres of agricultural land and above;
II. Residential flat of 1000 sq. ft. and above;
III. Residential plot of 100 sq. yards and above in notified municipalities;
IV. Residential plot of 200 sq. yards and above in areas other than the notified municipalities.

2. Shri/Smt./Kumari _____ belongs to the _____ caste which is not recognized as a Schedule Caste, Schedule Tribe and Other Backward Classes (Central List).

Signature with seal of Officer _____
Name _____
Designation _____

Recent Passport size attested photograph of the applicant

The income and assets of the families as mentioned would be required to be certified by an officer not below the rank of Tehsildar in the States/UTs.

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* **Note1:** Income covered all sources i.e. salary, agricultural, business, profession, etc.

** **Note2:** The term **"Family"** for this purpose include the person, who seeks benefit of reservation, his/her parents are siblings below the age of 18 years as also his/her spouse and children below the age of 18 years.

*** **Note3:** The property held by a **"Family"** in different locations or different places/cities have been clubbed while applying the land or property holding test to determine EWS status.

APPENDIX - II

FORM-SC/ST

SC/ST Certificate Format

FORM OF CERTIFICATE TO BE PRODUCED BY SCHEDULED CASTES (SC) AND SCHEDULED TRIBES (ST) CANDIDATES

1. This is to certify that Shri/ Shirmati/ Kumari* _____ son/daughter* of _____ of Village/Town* _____ District/Division* _____ of State/Union Territory* _____ belongs to the _____Scheduled Caste / Scheduled Tribe* under :-

* The Constitution (Scheduled Castes) Order, 1950
* The Constitution (Scheduled Tribes) Order, 1950
* **The Constitution (Scheduled Castes) (Union Territories) Order, 1951**
* The Constitution (Scheduled Tribes) (Union Territories) Order, 1951

[As amended by the Scheduled Castes and Scheduled Tribes Lists (Modification Order) 1956, the Bombay Reorganisation Act, 1960, the Punjab Reorganisation Act, 1966, the State of Himachal Pradesh Act, 1970, the North Eastern Areas (Reorganisation) Act, 1971, the Scheduled Castes and Scheduled Tribes Orders (Amendment) Act, 1976 and the Scheduled Castes and Scheduled Tribes Orders (Amendment) Act, 2002]

* The Constitution (Jammu and Kashmir) Scheduled Castes Order, 1956;
* The Constitution (Andaman and Nicobar Islands) Scheduled Tribes Order, 1959, as amended by the Scheduled Castes and Scheduled Tribes Order (Amendment) Act, 1976;
* **The Constitution (Dadara and Nagar Haveli) Scheduled Castes Order, 1962;**
* The Constitution (Dadara and Nagar Haveli) Scheduled Tribes Order, 1962;
* The Constitution (Pondicherry) Scheduled Castes Order, 1964;
* The Constitution (Uttar Pradesh) Scheduled Tribes Order, 1967;
* The Constitution (Goa, Daman and Diu) Scheduled Castes Order, 1968;
* The Constitution (Goa, Daman and Diu) Scheduled Tribes Order, 1968;
* The Constitution (Nagaland) Scheduled Tribes Order, 1970;
* The Constitution (Sikkim) Scheduled Castes Order, 1978;
* The Constitution (Sikkim) Scheduled Tribes Order, 1978;
* The Constitution (Jammu and Kashmir) Scheduled Tribes Order, 1989;
* The Constitution (Scheduled Castes) Order (Amendment) Act, 1990;
* The Constitution (Scheduled Tribes) Order (Amendment) Act, 1991;
* The Constitution (Scheduled Tribes) Order (Second Amendment) Act, 1991.

2. # This certificate is issued on the basis of the Scheduled Castes / Scheduled Tribes* Certificate issued to Shri /Shrimati* _____ father/mother* of Shri /Shrimati /Kumari* _____ of Village/Town* _____ in District/Division* _____ of the State State/Union Territory*_____ who belong to the Caste / Tribe* which is recognised as a Scheduled Caste / Scheduled Tribe* in the State / Union Territory* _____issued by the _____ dated _____.

3. Shri/ Shrimati/ Kumari * _____and / or* his / her* family ordinarily reside(s)** in Village/Town* _____of_____District/Division* of the State Union Territory* of_____.

Signature: _____
Designation _____
(with seal of the Office)

Place: _____ State/Union Territory* _____

Date: _____

* Please delete the word(s) which are not applicable.
# Applicable in the case of SC/ST Persons who have migrated from another State/UT.
IMPORTANT NOTES

The term "ordinarily reside(s)**" used here will have the same meaning as in Section 20 of the Representation of the People Act, 1950. Officers competent to issue Caste/Tribe certificates:

1. District Magistrate / Additional District Magistrate / Collector / Deputy Commissioner / Additional Deputy Commissioner / Deputy Collector / Ist Class Stipendiary Magistrate / City Magistrate / Sub-Divisional Magistrate / Taluka Magistrate / Executive Magistrate / Extra Assistant Commissioner.
2. Chief Presidency Magistrate / Additional Chief Presidency Magistrate / Presidency Magistrate.
3. Revenue Officers not below the rank of Tehsildar.
4. Sub-divisional Officer of the area where the candidate and/ or his family normally reside(s).
5. Administrator / Secretary to Administrator / Development Officer (Lakshdweep Island).
6. Certificate issued by any other authority will be rejected.

APPENDIX - III

FORM-OBC-NCL

OBC-NCL Certificate Format

FORM OF CERTIFICATE TO BE PRODUCED BY OTHER BACKWARD CLASSES (NCL) APPLYING FOR ADMISSION TO CENTRAL EDUCATIONAL INSTITUTIONS (CEIs), UNDER THE GOVERNMENT OF INDIA

This is to certify that Shri/Smt./Kum* _____ Son/ Daughter* of Shri/Smt.* _____of Village/ Town*_____District/Division* _____ in the State/Union Territory _____ belongs to the _____community that is recognized as a backward class under Government of India**, Ministry of Social Justice and Empowerment's Resolution No. _____ dated _____***

Shri/Smt./Kum. _____ and/or _____ his/her family ordinarily reside(s) in the _____ District/Division of the _____ State/Union Territory. This is also to certify that **he/she does NOT belong to the persons/sections (Creamy Layer)** mentioned in Column 3 of the Schedule to the Government of India, Department of Personnel & Training O.M. No. 36012/22/93- Estt. (SCT) dated 08/09/93 which is modified vide OM No. 36033/3/2004 Estt.(Res.) dated 09/03/2004, further modified vide OM No. 36033/3/2004-Estt. (Res.) dated 14/10/2008, again further modified vide OM No.36036/2/2013-Estt (Res) dtd. 30/05/2014.

District Magistrate /
Deputy Commissioner /
Any other Competent Authority

Dated:

Seal

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* **Please delete the word(s) which are not applicable.**
** **As listed in the Annexure (for FORM-OBC-NCL)**
*** **The authority issuing the certificate needs to mention the details of Resolution of Government of India, in which the caste of the candidate is mentioned as OBC.**

NOTE:

(a) The term 'Ordinarily resides' used here will have the same meaning as in Section 20 of the Representation of the People Act, 1950.

(b) The authorities competent to issue Caste Certificates are indicated below:

(i) District Magistrate/ Additional Magistrate/ Collector/ Deputy Commissioner/ Additional Deputy Commissioner/ Deputy Collector/ Ist Class Stipendiary Magistrate/ Sub-Divisional magistrate/ Taluka Magistrate/ Executive Magistrate/ Extra Assistant Commissioner (not below the rank of Ist Class Stipendiary Magistrate).

(ii) Chief Presidency Magistrate / Additional Chief Presidency Magistrate / Presidency Magistrate.

(iii) Revenue Officer not below the rank of Tehsildar' and

(iv) Sub-Divisional Officer of the area where the candidate and/or his family resides

ANNEXURE for FORM-OBC-NCL

Sl. No.	Resolution No.	Date of Notification
1	No.12011/68/93-BCC(C)	13.09.1993
2	No.12011/9/94-BCC	19.10.1994
3	No.12011/7/95-BCC	24.05.1995
4	No.12011/96/94-BCC	09.03.1996
5	No.12011/44/96-BCC	11.12.1996
6	No.12011/13/97-BCC	03.12.1997
7	No.12011/99/94-BCC	11.12.1997
8	No.12011/68/98-BCC	27.10.1999
9	No.12011/88/98-BCC	06.12.1999
10	No.12011/36/99-BCC	04.04.2000
11	No.12011/44/99-BCC	21.09.2000
12	No.12015/9/2000-BCC	06.09.2001
13	No.12011/1/2001-BCC	19.06.2003
14	No.12011/4/2002-BCC	13.01.2004
15	No.12011/9/2004-BCC	16.01.2006
16	No.12011/14/2004-BCC	12.03.2007
17	No.12011/16/2007-BCC	12.10.2007
18	No.12019/6/2005-BCC	30.07.2010
19	No. 12015/2/2007-BCC	18.08.2010
20	No.12015/15/2008-BCC	16.06.2011
21	No.12015/13/2010-BC-II	08.12.2011
22	No.12015/5/2011-BC-II	17.02.2014

APPENDIX-IV

DECLARATION / UNDERTAKING FOR OBC CANDIDATES ONLY

I, _____ son/daughter of Shri _____

resident of village/town/city _____ _____

district _____ , State _____

hereby declare that I belong to the _____ community which is recognized as a backward class by the Government of India for the purpose of reservation if admission in Central Educational Institutions as per orders contained in Department of Personnel and Training Office Memorandum No.36012/22/93-Estt. (SCT), dated 08/09/1993. It is also declared that I do not belong to persons/sections (Creamy Layer) mentioned in Column 3 of the schedule to the above referred office Memorandum dated 08.09.1993 as revised from time to time.

Place:

Date:

Signature of the Candidate

NOTE:

"The admission is provisional and is subject to the community certificate being verified through the proper channels. If the verification reveals that the claim of the candidate to belong to other Backward Classes or not to belong to creamy layer is false, his/her admission will be terminated forthwith without assigning any further reasons and without prejudice to such further action as may be taken under the provisions of Indian Penal Code for production of false certificates."

Indian Institute of Space Science and Technology

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