### **Indian Institute of Space Science and Technology**

(Declared as deemed to be University under Section 3 of the UGC Act, 1956) Valiamala, Thiruvananthapuram – 695547, INDIA







2020

## **Undergraduate Admission**

## **Information Brochure**

**Admission website:** 

https://www.iist.ac.in/admissions/undergraduate

Online Admission Portal: https://admission.iist.ac.in



IIST UG ADMISSIONS 2020

# Vision & Mission

## Vision

To be a world class educational and research institution contributing significantly to the Space endeavours.

## Mission

- Create a unique learning environment enriched by the challenges of the Space Programme.
- ★ Nurture the spirit of innovation and creativity.
- ★ Establish Centres 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



Dr. K. Sivan President, IIST Governing Body Chairman, IIST Governing Council Secretary, DoS / Chairman, ISRO



Dr. B. N. Suresh Chancellor



Dr. Vinay Kumar Dadhwal
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 & Dutreach 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 manpower for the Indian Space Research Organization (ISRO), one of 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 towards space sciences, space technology and space applications.

Equipped with excellent infrastructure and about 100 highly qualified faculty members, IIST has, within a decade of its inception, risen to great heights. It is ranked among the top 35 Engineering institutes of the country according to 2020 NIRF rankings of MHRD with a high score of more than 75% in Teaching, Learning and Resources which is a whole lot better than 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:
  - o Master of Science in Astronomy and Astrophysics
  - o Master of Science in Solid State Physics
  - o M. Tech in Earth System Science
  - o M. Tech in Optical Engineering

#### **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. Machine Learning and Computing
- M.Tech. in Optical Engineering
- M.Tech. in Solid State Technology

In addition, IIST has a vibrant research environment with more than 200 PhD scholars engaged in frontline research areas. The academic programmes have been 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.

The curriculum labs are meticulously designed and the best experimental set-ups and equipments are provided. IIST has three Centres of Excellence in the areas of Advanced Propulsion and Laser Diagnostics, Virtual Reality and Nanoscience and Technology where students get to 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 ExoWorlds – An ISRO Exoplanet Mission, Space Robotics, Space Sensors, etc.

		IIST AT	A GLANCE - 2	2020			
		Strengt	h of Departme	ents			
			Faculty mem	here		Scientific/	
				ibers			cal Staff
	ce Engineering		25				18
	Avionics		24				9
	hemistry		8				5
	Space Sciences		14				3
	umanities		5				0
	thematics		11				3
	Physics		13				8
			aduate Enrolli	ment			
	Year Aerospace Engineering		Electronics	Phy	Physical Sciences/ Dual Degree		
Year			nunication				Total
			Engineering				
2007	49		50		29		138
2008	51		54		33		148
2009 2010	52 53		65 61		34 34		151 148
2010	59		58		<del>34</del> 21		138
2011	53		54	25			132
2013	60		50		36		156
2014	60		50		33		153
2015	60	5	58		20		138
2016	60	6	60		20		140
2017	60	6	60		20		140
2018	60		60		20		140
2019	66	6	66		22		154
Total	743	7:	86		347		1876
Postgraduate Enrollment (2010 – 2019) - 616  PhD Enrollment (2008 – 2020) - 329							
Degrees A	Awarded Unde	ergraduate	Dual Degre	ee	Postgraduat	е	PhD
(2011 –		1154	31		424		69

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

#### **Research and Curriculum Laboratories at IIST**





Students are routinely contributing to various frontline projects like Nano-satellites, CubeSats, Space Sensors and the like. Students have taken up the design of Vyom Mk II sounding rocket after the successful launch of the Vyom-I rocket on May 11, 2012. On 1<sup>st</sup> April 2019, IIST successfully accomplished an ionospheric science mission ARIS (Advanced Retarding Potential Analyzer for Ionospheric Studies) onboard PS4 stage of ISRO's PSLV C45.

#### **IIST ventures into space**



Substantial opportunities exist for undergraduate students to carry out their credited internships and projects at ISRO Centres and other premier institutes both in India and abroad with funding from IIST and/or the host institutes. IIST has tie-ups with institutes like University of Boulder, Colorado, USA, Jet Propulsion Laboratory, California, USA, Australian National University, Canberra, Australia, and Nanyang Technological University, 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 undertake their Masters' at the world 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. On return these students are absorbed in ISRO.

IIST undergraduate students have also secured internships on their own at prestigious academic institutes like Lockheed Martin's Undergraduate Student Visitation Program and Mitacs Globalink Research Foundation, Canada.

Undergraduate and Dual Degree students are offered performance based DoS financial assistance for every semester (detailed in Section 6). Additionally, undergraduate and Dual Degree students, on successful completion of their degrees, have an opportunity to be absorbed into the prestigious centres of ISRO subject to vacancies available and fulfilment of academic criteria as described in Section 7. This gives them a golden opportunity to be involved in ISRO's missions and contribute significantly towards India's Space Programme. This is ensured through the execution of a surety bond during the time of admission to IIST. Other students have placement opportunities coordinated by IIST's Placement Cell.

#### **Students graduating from IIST**



ISRO/DoS Absorption 2011 – 2019							
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			
Total	361	400	190	951			

- \* B. Tech in Avionics was renamed as B.Tech in Electronics and Communication Engineering (Avionics) (ECE) 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.

#### **Snippets from IIST News Letter**

#### Dare to Dream Contest by DRDO

The IIST Team consisting of Shri Saurabh Chatterjee (PhD Scholar) and Abhijith Prakash (B Tech Student) won the first prize in the DRDO organized "Dare to Dream Contest" based on the topic 'Multi Leg Mobility'. The team has designed a four legged walking robot with vacuum suction pads which is able to climb on to surfaces of aircrafts and launch vehicles and inspect them for defects. The prototype was built and demonstrated as climbing an inclined plane. DRDO organised the 'Dare to Dream Contest' to bring together entrepreneurs, academicians and individual innovators and encourage them to 'dare to dream'. The contest attracted over 3,000 entries in 12 topics of which 20 were awarded prizes. The prize distribution was done by Hon. Defense Minister of India, Shri. Rajnath Singh during the DRDO's directors conference in New Delhi on 15th Oct. 2019.



Shri. Saurabh Chatterjee receives award from Hon. Defence Minister Shri. Rajnath Singh



Abhijith Prakash



#### **Best Paper Awards**

- i) *Ms. Neethu N, B* **Tech**, *Dept. of Aerospace Engineering* received the best paper award for her paper titled 'Comparison of Prediction Models for the Hot Deformation Behaviour of Cast Mg-Zn-Y Alloy' in the 2nd International Conference on Recent Trends in Metallurgy, Materials Science and Manufacturing IMME 2019 held at National Institute of Technology, Tiruchirappalli during 27-28 December 2019.
- ii) *Mr. Mallikarjum Kompella, Dept. of Avionics* has won 1st prize in MV Chauhan Student's paper contest at IEEE India Council International Conference (INDICON-2019) on 13th day of December, 2019 held at Rajkot, India. He won the prize for his technical paper tiled "Parallel Operation of Battery Chargers in Small Satellite Electrical Power Systems".The award includes a citation and a cash prize of Rs. 6000/-

## Indian National Academy of Engineering (INAE) Innovative Student Project Awards (B.Tech/M.Tech)

- i) *Mr. Suraj,* B.Tech (Avionics) has won the innovative project award for his project entitled "PS4Net: An Opportunistic Software Defined Networking Framework over PSLV Debris" (Project Guide: Dr. B S Manoj)
- ii) Ms. Archana C M, B.Tech(Avionics) has won the innovative project award for her project entitled "Dodecagonal Voltage Space Vector Based Direct Torque Control Scheme for Open-End Winding Induction Motor with a Single DC Source" (Project Guide: Dr.Sudarshan Karthick & Dr.Rajeevan P P)
- iii) Ms. Sneha Gem Mathew B.Tech (Avionics) has won the innovative project award for her project entitled "'Low Complexity Cyclostationary Feature Detection from Sub-Nyquist Samples' "

(Project Guide: Dr. Chris Prema)

- iv) Mr. Rohit Gandikota, B.Tech (Avionics) has won the innovative project award for his project entitled" Harnessing Deep Generative Models for Multimedia Data Hiding" (Project Guide: Dr. Deepak Mishra)
- v) Ms. Neethu M has won the innovative project award for her M.Tech project entitled " Actuator interface board design for momentum biased cubesat ADCS"

(Project Guide:Dr.Harsha Simha)

#### **Snippets from IIST News Letter**

Following students visited University of Colorado, Boulder and NTU, Singapore for their final-year project/internship on collaborative satellite development project of Inspire-Sat.



Mr. Ankit Verma
(ECE)
(University of Colorado, Boulder)



Mr. Ananth Kumar TK (ECE) (University of Colorado, Boulder)



Mr. Anshuman Palo (ECE) (NTU, Singapore)

## Following students visited Caltech / JPL for two months internship during May – July 2019



**Ms. Jureddy Chinmai Sai** (Engineering Physics)



**Mr. Aalokeparno Dhar** (Aerospace Engineering )



Mr. Subham Saha (ECE)

#### **Awards and Recognition**

Future Research Talent Award Winners (2020), organised by Australian National University, Canberra, Australia

Ms. Ushasi Bhowmick, (B.Tech EP 6th Semester), Ms. Kolencheri Jithendran Nikitha (DD, Master of Science in Astronomy and Astrophysics, 8th Semester), Mr. Pratik Sharma (B.Tech ECE, 6th Semester), Mr. Gaurav Kumar (M.Tech, ESS, 2nd Semester), Ms. Reema Mathew (DD, M.Tech, ESS, 8th Semester), Ms. Chinmai Sai Jureddy (DD, MoS, SSP, 8th Semester) have been selected by Australian National University (ANU) for their Future Research Talent (FRT) Awards for the year 2020. It may be noted here that, ANU has selected the largest contingent of Indian students from IIST this year. Last year, ANU has selected 5 IIST students for the ANU-FRT Awards from among 51 students selected all over India spanning 19 institutions. ANU FRT provides air travel and living expenses for each student amounting to 6000 Australian Dollars. Selected students will get to spend close to 3 months of summer internship at ANU during May-July 2020.



Ushasi Bhowmick



Kolencheri Jithendran Nikitha



Pratik Sharma



Gaurav Kumar



Chinmai Sai Jureddy



Reema Mathew

Due to Covid-19 related travel restrictions, visit dates are being re-worked.

#### Following students visited Australian National University, Canberra under the FRT program in Summer 2019



Ms. D Bhavana (Astronomy & Astrophysics)



Mr. Kannan S (Solid State Physics)



Mr. Naman Jain (Solid State Physics)



Ms. Jigyasa Nigam (Solid State Physics)



Mr. KVNG Vikram (Earth System Science)

#### **IIST Undergraduates Excel in Research (2019)**

#### Ms. Bhavana D

Lead author of the research paper

A classifier to detect elusive astronomical objects through photometry

(Monthly Notices of the Royal Astronomical Society – IF 5.231)

A Dual Degree student who joined IIST in 2015, Bhavana is pursuing her Masters' in Astronomy & Astrophysics and is currently in the final year.

#### Ms. Prachi Prajapati

Lead author of the research paper

Investigating particle acceleration in the Wolf-Rayet bubble G2.4+1.4

(The Astrophysical Journal Letters – IF 8.374)

A Dual Degree student who joined IIST in 2014, Prachi completed her Masters' in Astronomy & Astrophysics in 2019 and joined the Physical Research Laboratory, Ahmedabad as Scientist/Engineer SC.

#### Mr. Jayadev Pradeep

Lead author of two research papers

- Detection of metal-rich, cool-warm gas in the outskirts of galaxy clusters
- Solar Metallicity Gas in the Extended Halo of a Galaxy at z ~ 0.12

(Monthly Notices of the Royal Astronomical Society – IF 5.231)

A Dual Degree student who joined IIST in 2014, Jayadev completed his Masters' in Astronomy & Astrophysics in 2019 and joined the Space Physics Laboratory, Trivandrum as Scientist/Engineer SC.

#### • Mr. Sree Vaishnav Cherukuri

Co-author of the research paper

Observation of inverse Compton emission from a long γ-ray burst

(Nature - IF 43.07)

A Dual Degree student who joined IIST in 2014, Vaishnav completed his Masters' in Astronomy & Astrophysics in 2019 and joined the Physical Research Laboratory, Ahmedabad as Scientist/Engineer SC.

Mr. Mallikarjun Kompella received the following awards
 Secured 1st prime in MV Chauban Studentia paper centers

Secured 1st prize in MV Chauhan Student's paper contest

IEEE India Council International Conference (INDICON-2019) December, 2019 at Rajkot, India.

Secured 1st prize for his technical paper titled Parallel Operation of Battery Chargers in Small Satellite Electrical Power Systems

An Undergraduate student who joined IIST in 2016, Mallikarjun is pursuing his B.Tech in Electronics & Communication Engineering (Avionics) and is currently in the final year.

#### Mr. Rohit G

Received the Best paper award at the 8th International Conference on Pattern Recognition and Machine Intelligence, Dec. 2019

An undergraduate student who joined IIST in 2015, Mr.Rohit completed his B.Techin Electronics&Communication Engineering (Avionics) in 2019 and joined the National Remote Sensing Centre (NRSC), Hyderabad as Scientist/Engineer SC.

#### Mr. British Ashok Sontakke & Mr. Rahul Kumar Joint authors of the following research papers

Design, Modeling and Experimental Verification of a Hall-Effect-Based Linear Instrumentation System for Through-Shaft Angle Sensing

(IEEE Transactions of Instrumentation and Measurement, Dec- 2019. IF -3.067)

A Hall Effect Based Through Shaft Angle Sensor - Analysis and Signal Conditioning

(IEEE International Instrumentation and Measurement Technology Conference - Auckland, New Zealand from 20 to 23 May 2019.)

Undergraduate students who joined IIST in 2016, British & Rahul are pursuing their B.Tech in Electronics & Communication Engineering (Avionics) and are currently in the final year.

#### • Mr. Denil V Robinson

Lead author of the peer-reviewed conference paper

A simple Chaotic Circuit Realizing Jerk Equations: Design and Evaluation

(IEEE International Symposium on Smart Electronic Systems, Rourkela, India)

An Undergraduate student who joined IIST in 2016, Denil is pursuing his B.Tech in Electronics & Communication Engineering (Avionics) and is currently in the final year.

#### Mr. Shubham Chauhan

Lead author of the peer-reviewed conference paper

Development of 3-Axis Silicon Accelerometer with Piezoresistive ITO and Reduced Cross Axis Sensitivity

(XXth International Workshop on Physics of Semiconductor Devices: IWPSD 2019 December 17-20, 2019, Kolkata.)

An undergraduate student who joined IIST in 2015, Shubham Chauhan, completed his B.Tech in Electronics & Communication Engineering (Avionics) in 2019 and joined the Semi-Conductor Laboratory, Chandigarh as Scientist/Engineer SC.

#### • Mr. Aswin Sunil

Lead author of the peer-reviewed conference paper

A New Scheme for Realization of 18-Sided Polygonal Voltage Space Vector Structure Using Multilevel Inverter with Reduced Number of Devices

(IEEE International conference on Power Electronics, Smart Grid and Renewable Energy (PESGRE), Jan. 2020, Kochi, India.)

An undergraduate student who joined IIST in 2016, Aswin is pursuing his B.Tech in Electronics & Communication Engineering (Avionics) and is currently in the final year.



Ms Garima Aggarwal, the topper of B.Tech (Aerospace Engineering) student of the 2019 pass out batch from Indian Institute of Space Science and Technology, Thiruvananthapuram, has been awarded "The Abdul Kalam Prize" for the year 2020 by California Institute of Technology, United States of America. The above prize is awarded by California Institute of Technology to a student in the Aerospace Engineering Master's Programme whose academic performance is exemplary and who has shown high potential for future achievements at CalTech.

Ms Aggarwal is the seventh student from the Aerospace Engineering department of Indian Institute of Space Science and Technology to avail Professor Satish Dhawan Endowment, a joint initiative by Indian Space Research Organization and California Institute of Technology that provides complete assistance to a student from Indian Institute of Space Science and Technology to pursue a Master's programme at CalTech.

Ms Aggarwal is the fourth student from Aerospace Engineering department of Indian Institute of Space Science and Technology to be awarded "The Abdul Kalam Prize". Shri Chapalkar Aditya Nithin, Shri Avinash Chandra, Shri Padmanabha Prasanna Simha and Ms Garima Aggarwal of Aerospace Engineering department of Indian Institute of Space Science and Technology have won "The Abdul Kalam Prize" for the years 2014, 2018, 2019 and 2020.





Flux Bounded Tungsten Inert Gas Welding Process: An Introduction, P Chakravarthy, M Agilan, N Neethu, CRC Press, ISBN 9780367422875

IIST promises a vibrant campus life for the young and energetic students amidst the serene greenery close to the foothills of the Sahyadri ranges.

#### **Campus life at IIST**



There are well equipped hostels, student canteens, cafeteria, bank and ATM, play grounds, gyms, etc. Very good medical and counselling facilities are also available on campus. Clubs like the Astronomy Club, Robotics Club, and Mathematics Club are very active in the campus. Conscientia, IIST's Astronomy & Technical Fest, is organized every year by the students to trigger innovative ideas. For their holistic growth, IIST encourages students in extra-curricular pursuits like sports and cultural activities. IIST's Annual Cultural Fest, Dhanak is now one of the most popular student festivals in south India, where a large number of students converge to showcase their talent. Festivals and events are celebrated with enthusiasm by the student community with active participation from the entire IIST fraternity.



- I) IIST Students participated in All Kerala Open Chess Tournament on 5<sup>th</sup> March 2019 (NEXUZ-19), which is organized by Mar Baselious College of Engineering Trivandrum and won the Best College in Trivandrum Award and *Abhishek A* (3<sup>rd</sup> year EP) won the Tournament's Championship.
- ii) Mr. Abhishek A (3<sup>rd</sup> year Engineering Physics) participated in All Kerala Chess Tournament on 19<sup>th</sup> October 2019, which is organized by NIT Calicut and won **Second position** in the TATHVA event.



IIST Chess Team with Dr. V K Dadhwal, Director and Prof. Kuruvilla Joseph, Dean (SA, SW & OR)



IIST Chess Team (Left to Right) Mr. Dakshin Tillo - 3<sup>rd</sup> Year Engineering Physics, Mr. Harikrishnan S - 2<sup>rd</sup> Year Engineering Physics, Mr. Jaswanth Waddi - 3<sup>rd</sup> Year Avionics, Mr. Abhishek - 3<sup>rd</sup> Year Engineering Physics and Mr. Fenil Shah - 4<sup>th</sup> Year Engineering Physics

#### 2. 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 <a href="https://www.iist.ac.in/academics/curricula">https://www.iist.ac.in/academics/curricula</a> 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 areas such as Digital Signal Processing, RF & Microwave Communications, Antenna, Power Electronics, Microelectronics, Control Systems, Computer Science and Engineering, Artificial Intelligence, Robotics, etc. (visit <a href="https://www.iist.ac.in/academics/curricula">https://www.iist.ac.in/academics/curricula</a> 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)

#### 3. SEAT MATRIX FOR UNDERGRADUATE PROGRAMMES

**Table 1: Undergraduate and Dual Degree Programmes** 

Sl No.	Programme	No. of Seats	Duration
1	B.Tech in Aerospace Engineering	60 + 6*+ 3**	4 years
2	B.Tech in Electronics and Communication Engineering (Avionics)	60 + 6* + 3**	4 years
3	Dual Degree†(B.Tech and Master of Science/ M.Tech)	20 + 2*	5 years

#### **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 last year's total strength) 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 8 of the brochure).
- (iii) †: 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
- M.Tech. in Earth System Science
- Master of Science in Solid State Physics
- 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 upto sixth semester. The seat matrix specifying minimum and/or maximum for each of the streams will be notified to the students during the sixth semester.

<u>There is no exit option with a B.Tech degree in Engineering Physics.</u> 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.

#### 4. 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 last year's total strength) 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 <u>ONLY</u> reservation categories for admission to the undergraduate programmes at IIST.

#### **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. <u>Certificates in any other format will not be accepted</u>. 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 <u>original</u> <u>certificate issued on or after 1<sup>st</sup> April, 2020</u> by a competent authority in the prescribed format given in APPENDIX–III. <u>Certificates in any other format will not be accepted</u>. 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 PD candidates. The benefit of reservation would be given only to those who have <u>at least 40% physical impairment</u>. Candidates seeking benefit under this category are required to produce <u>original certificates</u>, issued by a district medical <u>board/competent authority</u>, 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 2: Category-wise seat matrix

Academic Programme	General	OBC-NCL	SC	ST	Total	EWS*	PMSSS**
Aerospace Engineering	30(1)	16(1)	9(1)	5	60	6	3
Electronics and Communication Engineering (Avionics)	30(1)	16(1)	9	5(1)	60	6	3
Dual Degree	10(1)	5	3	2	20	2	0
Total	70	37	21	12	140	14	6

#### **Important Notes:**

- (i) Number in bracket indicates that one PD candidate is included.
- (ii) \* and \*\*: Refer to Important Notes discussed under Table 1.

#### 5. SEMESTER FEE STRUCTURE

The fee structure per semester is as follows:

**Table 3: Fee structure per semester** 

Sl No.	Fee Component	Amount (INR)
1.	Tuition Fee	20000
2.	Establishment Fee	8000
3.	Student Amenities Fee	4000
4.	Medical Charges	2000
5.	Hostel and Dining Charges	14400
	Total	48400

#### **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) At the time of joining the institute, students are required to remit a <u>caution deposit of INR 13000</u> which is refundable (without interest) at the time of leaving the institute.
- (iii) 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.
- (iv) Except Tuition Fee, the other components are subject to revision, and any changes will be informed well in advance.

#### 6. DOS FINANCIAL ASSISTANCE

DoS offers performance (Semester Grade Point Average–SGPA) based financial assistance to all undergraduate and Dual Degree students. It is mandatory for the students to avail this financial assistance. Students and their parent are required to sign a surety bond [see Section 7 (2)/7(3)] for the same at the time of joining IIST.

The financial assistance scheme per semester is detailed below:

Table 4: Financial assistance scheme per semester

Sl No.	Category	Academic Criteria	Assistance Amount (INR)
1.	General / EWS/ OBC-NCL	SGPA of 7.5 and above (≥ 7.5 on a scale of 10)	48400
2.	SC/ ST/ PD	SGPA of 6.5 and above (≥ 6.5 on a scale of 10)	48400
3.		SGPA between 5.5 and 6.5 (≥ 5.5 and < 6.5 on a scale of 10)	20000 (to cover only Tuition Fee)

#### **Important Notes:**

- (i) Full/ Partial financial assistance will be awarded to the students at the end of the semester after declaration of semester results.
- (ii) Students who are eligible for full financial assistance for the semester will receive a book grant of INR 3000 for that semester. Prior approval, production of bill and verification of purchased book(s) are essential to avail the book grant.

#### 7. ABSORPTION IN ISRO/DoS

Based on notified vacancies in different specializations, by ISRO, undergraduate and Dual Degree students will be absorbed as Scientist/ Engineer-SC, subject to fulfilment of the following conditions applicable to <u>ALL</u> categories of students;

- (1) Students should successfully complete the B.Tech and Dual Degree Programmes in 4 (four) and 5 (five) years, respectively.
- (2) Students should secure minimum Cumulative Grade Point Average (CGPA) of 7.5 (on a scale of 10) at the end of B.Tech and Dual Degree Programmes.
- (3) Students are required to be fully medically fit as per ISRO norms.

ISRO/ DoS does not guarantee job to all eligible students. Absorption will be in the order of merit based only on vacancies notified by ISRO/ DoS for IIST absorption for that particular year.

#### **Important Notes:**

(i) Currently, Scientist/Engineer- 'SC' is placed in Level 10 of the Central Government 7th pay commission Pay Matrix Table. The basic emoluments at present amount to approximately INR 56,100 p.m. In addition, House Rent Allowance [HRA], Dearness Allowance [DA] and Transport Allowance at the prescribed rates in force at the place of posting are applicable. The employees

- get the benefit of the National Pension System. Medical facilities for self and dependants, Leave Travel Concession, Group Insurance, etc., are also available.
- (ii) Students, their parent and a surety are required to sign a surety bond (on a INR 500 non-judicial paper), in the prescribed format given in APPENDIX-V, at the time of joining IIST.
- (iii) Students who are offered a job in ISRO/DoS are mandated to serve as Scientist/Engineer-'SC' in the allotted ISRO/DoS centres <u>for a minimum period of 3 (Three) years</u>. A student not accepting the ISRO/DoS job offer is liable to <u>pay INR 10 (Ten) Lakhs</u> (and any accrued interest till the date of payment). Having secured a job in ISRO/DoS and having joined service, a student resigning from ISRO/DoS before completing the mandatory minimum period of 3 (three) years, shall pay as per the following norms:
  - Student with less than one year of service in ISRO/DoS INR 10 (Ten) Lakhs
  - Student with one to two year service in ISRO/DOS INR 9 (Nine) Lakhs
  - Student with two to three year service in ISRO/DOS INR 8 (Eight) Lakhs

The payment will be made to IIST or the respective ISRO/ DoS centre, the latter after the transfer of the bond to the respective ISRO/DoS centre.

- (iv) ISRO has provisions for its scientists/ engineers to pursue higher studies.
- (v) Students who are not offered job by ISRO/DoS will be free of any financial obligations notwithstanding the DoS financial assistance that they have availed.
- (vi) For the students who are not absorbed in ISRO/DoS establishments, the Placement Cell of IIST shall put its best efforts to facilitate placement. Visit www.iist.ac.in/placementcell for details.

#### 8. ELIGIBILITY FOR ADMISSION

Candidates desirous of admission to IIST must satisfy <u>ALL</u> eligibility criteria detailed below.

- (1) **Citizenship:** Only Indian citizens are eligible to apply for admission in IIST.
- (2) **Date of Birth:** Candidates belonging to General, EWS and OBC-NCL categories must have been born **on or after October 1, 1995**. Candidates belonging to SC/ ST and PD categories must have born **on or after October 1, 1990**.
  - 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
- (3) **Minimum Marks Requirement in Qualifying Examination:** Keeping in mind the pandemic situation prevailing in the country, IIST UG Admission 2020 has relaxed this criterion. In line with the decision taken by the Central Seat Allocation Board and the IITs, candidates are now required to only qualify in one of the examinations listed below. This modification is done for the year 2020 only.

**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 Defense 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.

#### (4) Minimum Marks Requirement in JEE (Advanced)–2020 Examination:

Candidates should have appeared for the <u>Joint Entrance Examination (Main)-2020</u> conducted by National Testing Agency (NTA), to qualify themselves to appear for the <u>Joint Entrance Examination (Advanced)-2020</u> conducted by **IITs** and secure the minimum prescribed marks as given below:

Table 5: Minimum Marks Requirement in JEE (Advanced)-2020 Examination

Sl No.	Category	Minimum Marks
1.	General	At least 20% marks in aggregate and at least 5% marks in each of the three subjects (Physics, Chemistry and Mathematics)
2.	EWS/ OBC-NCL	At least 18% marks in aggregate and at least 4.5% marks in each of the three subjects (Physics, Chemistry and Mathematics)
3.	SC/ ST/ PD	At least 10% marks in aggregate and at least 2.5% marks in each of the three subjects (Physics, Chemistry and Mathematics)

#### 9. IMPORTANT DATES

**Table 6: Important Dates of Undergraduate Admission** 

Opening of Online Registration and Filling-in of Branch Preferences	27 September 2020 17:00 hr
Closing of Online Registration	7 October 2020 15:00 hr
Publication of IIST Admission Rank List	8 October 2020 17:00 hr
Closing date for Modification of Branch Preferences	9 October 2020 12:00 hr
Seat Allotment/ Acceptance rounds	Seat Allotment/Acceptance rounds is tentatively scheduled to start
Re-validation of registration of Waiting List Candidates	from 10 October 2020
Joining IIST**	2 November 2020 (Reporting time 10:00 hr)
Spot Admissions Notification, if required (in case of vacancies)	2 November 2020 15:00 hr
Spot Admissions Registration, if required (applicable only for remaining wait-listed candidates after last round of seat allotment)	2 November 2020 16:00 hr to 4 November 2020 09:00 hr
Spot Admissions, if required. (Online) (applicable only for remaining wait-listed candidates after last round of seat allotment)	4 November 2020 11:00 hr
Closing of Admission	6 November 2020
Commencement of Classes**	9 November 2020
Induction Programme**	3 - 8 November 2020
Last date for joining	16 November 2020

#### **Important Notes:**

- (i) \*\*: In-campus or online as per the Covid situation prevailing during that time.
- (ii) 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

#### 10. 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 (<a href="http://admission.iist.ac.in">http://admission.iist.ac.in</a>) and choose the link to Undergraduate Admission–2020. 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.

<u>Candidates are required to upload soft copy of the same photograph that they have used for</u> JEE (Advanced) 2020 registration.

Candidates are advised to carefully read the eligibility criteria detailed in Section 8 before registration.

#### (2) **Registration Fee Payment:**

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

The Registration Fee is non-refundable and is detailed below for the various categories.

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

**Table 7: Registration Fee** 

#### (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)–2020 Examination subject to satisfying the minimum marks prescribed in Table 5.
- 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)–2020 Examination, in the respective category.

#### Table 8: IIST UG Admission Statistics Opening and Closing Percentage of JEE (Advanced) Marks for 2017, 2018 and 2019

#### Details of IIST Undergraduate Admission (2019)

Opening & Closing Percentage of JEE Advanced 2019 marks.

Category		( Aerospace ineering )		Electronics and munication)	Dual Degree (B.Tech. + Master of Science/Master of Technology)	
	Open	Close	Open	Close	Open	Close
General	58.60 %	34.14 %	51.34 %	34.14 %	47.85 %	35.22 %
EWS	33.87 %	31.18 %	32.80 %	31.18 %	30.91 %	30.11 %
OBC	34.14 %	29.30 %	32.80 %	28.76 %	32.26 %	27.96 %
sc	26.61 %	17.20 %	19.09 %	15.59 %	28.23 %	26.08 %
ST	15.59 %	11.56 %	16.94 %	11.83 %	11.83 %	11.02 %

#### Details of IIST B. Tech Admission (2018)

Opening & Closing Percentage of JEE Advanced 2018 marks.

Category		Aerospace eering )		ectronics and inication )	Dual Degree (B.Tech. + Master of Science/Master of Technology)	
	Open	Close	Open	Close	Open	Close
General	43.89%	34.17%	66.94%	33.05%	52.78%	36.39%
OBC	47.78%	30.28%	33.05%	27.22%	33.33%	26.11%
SC	33.89%	19.44%	32.22%	15.83%	22.22%	13.05%
ST	14.44%	11.94%	20.28%	11.11%	15.00%	10.28%

#### Details of IIST B. Tech Admission (2017)

Opening & Closing Percentage of JEE Advanced 2017 marks.

Category		B.Tech. ( Aerospace Engineering )		Avionics )**	Dual Degree (B.Tech. + Master of Science/Master of Technology)	
	Open	Close	Open	Close	Open	Close
General	64.21%	53.83%	60.93%	52.19%	60.38%	54.37%
OBC	53.55%	44.81%	44.81%	42.08%	44.54%	42.35%
sc	33.88%	30.60%	34.15%	27.05%	41.53%	28.96%
ST	29.51%	20.22%	28.96%	20.22%	22.40%	20.22%

<sup>\*\*</sup> This program has been renamed as B.Tech in Electronics & Communication Engineering (with specialisation in Avionics) w.e.f. 2018 admissions.

#### (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 <u>WILL NOT</u> be complete without branch preference. Last date for modifying branch preference is specified in Table 6.
- After the culmination of the specified dates given in Table 6, 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 <u>FREEZE</u> option will not be further considered for their higher preferences, if any. <u>Candidates are advised to be sure before choosing this option.</u>
- Candidates who wish to be considered for their higher preferences but would like to confirm
  their allotted seat are required to choose the <u>SLIDE</u> option and proceed to confirm seat
  acceptance.
- Based on the vacancies available and on the basis of merit, branch choice will automatically <u>SLIDE UP</u> as per the preference order filled-in by the candidates. This will also hold after joining IIST till the closing of UG Admission-2020.
- Candidates opting for the <u>FREEZE</u> or <u>SLIDE</u> options during a seat allocation round are required to <u>accept the seat</u> by following the process detailed below:
  - Candidates are required to make an online payment of First Semester Fee amounting to INR 34000 (charges towards Hostel and Dining amounting to INR 14400 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 (<a href="http://admission.iist.ac.in">http://admission.iist.ac.in</a>) 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 2019 and/or 2020).
    - Class XII (or equivalent examination) certificate (for those who appeared for this examination in 2019 and/or 2020).
    - Category (EWS/OBC-NCL/SC/ST/PD) certificates.
    - Transfer Certificate from the institute last attended.
    - Candidate's AADHAR Card.

- o Documents should be uploaded by clicking on the **<u>UPLOAD DOCUMENTS</u>** link.
- o 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.
- o 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 <u>RE-VALIDATE</u> option on specified dates which
  will be notified on the website.
- Candidates who do not <u>RE-VALIDATE</u> their registrations within the specified dates will no longer be included in the subsequent Waiting List and hence shall <u>NOT</u> be considered for further admission.

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

- For candidates who are allotted and accept 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 accept 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 below. The amount will be deducted from the paid First Semester Fee.

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

**Table 8: Refund Policy for UG Admission** 

#### **Important Notes:**

For the purpose of refund, Fees as indicated in Sl. No 5 above, will be INR 32,000 (Tuition Fee, Student Amenities Fee, and Establishment Fee)

#### 11. SCHEDULE FOR SEAT ALLOTMENT/ ACCEPTANCE ROUNDS

Tentative date for starting of Seat allotment/acceptance is indicated in Table 6. The detailed scheduled will be uploaded on the website.

#### 12. JOINING HST

Candidates, who have accepted the seat allotment, are required to join IIST on the date specified in Table 9. Given the pandemic situation in the country, the joining procedure is likely to be carried out online.

- Online video link for joining process will be sent to the Candidate's registered E-mail Id. Candidates are requested to ensure network connection prior to the joining process.
- Candidates and parents are advised to go through the surety bond template given in the APPENDIX-V. Clarification, if any, will be given during the admission process. Printed bond will be sent by post, which can be duly filled and returned by post to IIST before the specified deadline.
- Candidates are required submit the Medical Examination Report in the prescribed format given in APPENDIX-VI before the date intimated during admission.

#### 13. 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.

#### 14. DISPUTE REDRESSAL

Any complaints, grievances, etc. related to Admission to IIST must be referred to the Chairperson, Undergraduate Admissions—2020, 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.

#### **APPENDIX - I**

## INCOME & ASSET CERTIFICATE TO BE PRODUCED BY ECONOMICALLY WEAKER SECTIONS

WEAKER SECT	10115		
Certificate No		I	Date:
	VALID F	OR THE YEAR	
		Smt./Kumari	
of		permanent resident of	,
Village/Street		Post Office	District
	in the State/U	nion Territory	Pin Code
annual income* of financial year  I. 5 acres of II. Resident	of his/her <b>"fam</b> . His/her f agricultural la ial flat of 1000	low belongs to Economically Wealily"** is below Rs. 8 lakh (Ruper family does not own or possess and and above; sq. ft. and above; sq. yards and above in notified murrors.	ees Eight Lakh only) for the ny of the following assets***:
	_	q. yards and above in areas other th	_
not recognized as	a Schedule Casi	belongs to te, Schedule Tribe and Other Back	ward Classes (Central List).
			Officer
		D	Designation
Recent Passp attested phot of the appl	ograph	The income and assets of the would be required to be combelow the rank of Tehsil	ertified by an officer not

<sup>\*</sup> Note1: Income covered all sources i.e. salary, agricultural, business, profession, etc.

<sup>\*\*</sup> 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.

<sup>\*\*\*</sup> 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

This is to certify that Shri/ Shirmati/ Kumari*				son/daughter*
of	of	Village/Town*		
District/Division*		of State/Union Territory*		belongs to
the	Schedule	d Caste / Scheduled Tribe* unde	er:-	
* 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	r, 1951			
As amended by the Scheduled Castes and Scheduled Tribes List 966, the State of Himachal Pradesh Act, 1970, the North Easterr Amendment) Act, 1976 and the Scheduled Castes and Schedule	n Areas (Reo	rganisation) Act, 1971, the Scheduled		
* The Constitution (Jammu and Kashmir) Scheduled Castes Ord	der, 1956;			
* The Constitution (Andaman and Nicobar Islands) Scheduled T 1976;	ribes Order,	1959, as amended by the Scheduled C	astes and Scheduled Tr	ibes Order (Amendment) Ac
* The Constitution (Dadara and Nagar Haveli) Scheduled Ca	stes Order,	1962;		
* The Constitution (Dadara and Nagar Haveli) Scheduled Tribes		2;		
* The Constitution (Pondicherry) Scheduled Castes Order, 1964				
* The Constitution (Uttar Pradesh) Scheduled Tribes Order, 196				
* The Constitution (Goa, Daman and Diu) Scheduled Castes On				
* The Constitution (Goa, Daman and Diu) Scheduled Tribes Ord	ier, 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	er 1989 <sup>.</sup>			
* The Constitution (Scheduled Castes) Order (Amendment) Act,				
* The Constitution (Scheduled Tribes) Order (Amendment) Act,				
* The Constitution (Scheduled Tribes) Order (Second Amendme	ent) Act, 199	1.		
2. # This certificate is issued on the basis of the	ne Schedu	uled Castes / Scheduled Tribe	es* Certificate issue	ed to Shri /Shrimati*
father/mother	* of Shri	/Shrimati /Kumari*		of Village/Town'
in [	District/Div	ision*	of th	ne State State/Union
Territory* v	who belon	g to the Caste / Tribe* which	is recognised as	a Scheduled Caste /
Scheduled Tribe* in the State / Union Territor		-	_	
	,		,	
3. Shri/ Shrimati/ Kumari *		and / or* his / her* fam	ily ordinarily reside	(s)** in Village/Town*
		ict/Division* of the State Union <sup>-</sup>	-	· ·
			Signature: _	
			Designation _	
				(with seal of the Office)
Place: State/Union Territory	/*			
Date:				
, a.c.				
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:

- 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.
- Revenue Officers not below the rank of Tehsildar.
  Sub-divisional Officer of the area where the candidate and/ or his family normally reside(s).
- Administrator / Secretary to Administrator / Development Officer (Lakshdweep Island).
- Certificate issued by any other authority will be rejected.

#### **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.*		
Town*		
State/Union Territory		
	_ community that is recog	gnized as a backward class under
Government of India**, Ministry of	Social Justice and E	Empowerment's Resolution No.
Shri/Smt./Kumhis/her family ordinarily reside(s) in the		and/or
his/her family ordinarily reside(s) in the		District/Division of
theS	State/Union Territory. Th	is is also to certify that <b>he/she</b>
does NOT belong to the persons/section	ns (Creamy Layer) mention	oned in Column 3 of the Schedule
to the Government of India, Departme	ent of Personnel & Traini	ing O.M. No. 36012/22/93- Estt.
(SCT) dated 08/09/93 which is mo	dified vide OM No. 3	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.36036/2/20		
, ,	, , , ,	
	D	ristrict Magistrate /
		eputy Commissioner /
_		ny other Competent Authority
Dated:		
Seal		
* Please delete the word(s) which ** As listed in the Annexure (for l *** The authority issuing the certifi	FORM-OBC-NCL)	e details of Resolution of

\*\*\* 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 purp	ose of reservation if admission in Central Educational
Institutions as per orders contained in Department of Person	nnel and Training Office Memorandum No.36012/22/93-
Estt. (SCT), dated 08/09/1993. It is also declared that I do n	not belong to persons/sections (Creamy Layer) mentioned
in Column 3 of the schedule to the above referred office M	Iemorandum 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."

#### APPENDIX-V

BOND SIGNED BY THE STUDENT SELECTED FOR COURSE AT THE INDIAN INSTITUTE OF SPACE SCIENCE AND TECHNOLOGY (hereinafter referred to as IIST), THIRUVANANTHAPURAM, HIS / HER PARENT / GUARDIAN AND SURETY FOR ACADEMIC PERFORMANCES AND OBLIGATIONS TO SERVE INDIAN SPACE RESEARCH ORGANISTION (ISRO)/DEPARTMENT OF SPACE (DOS)

	Bond		made	this by	the	day	of
Residen Address).	t			 	•••••		(Full
(hereina	ifter called	the "Stu	ident")				
Residen	t			(Full		Aged	address)

and Mr./Ms	Aged			
Resident	(Full	· · · · · · · · · · · · · · · · · · ·		
(hereinafter called the "Surety")				

In favour of the Director, Indian Institute of Space Science and Technology (IIST) at Thiruvananthapuram (hereinafter called the "Director").

The expressions Student, Parent and Surety shall include, unless the context otherwise requires, his/her heirs, executors, administrators and legal representatives and the expression Director shall include his successors and assigns. It binds the Parent and the Surety. It binds the Student on he/she becoming major.

#### **WHEREAS**

- (i) the IIST is a Society registered under the Travancore Cochin, Literary Scientific and Charitable Societies Registration Act 1955, sponsored and established by the Department of Space, Government of India to impart education and encourage research in subjects related to Engineering and Space Science so as to prepare the students for absorption as Scientist/Engineers in Indian Space Research Organisation (ISRO)/Department of Space (DOS), subject to the conditions mentioned at (v) below.
- (ii) Students' at the IIST are provided DOS Assitanceship subject to prescribed academic performance level. However, at the beginning of each semester every student has to remit the prescribed fees in full.
- (iii) The DOS Assistanceship package meets the expenses towards Statutory Semester Fees, Student Amenity Fee, Hostel charges (including dining), Establishment charges, Medical coverage and Book Grant\*
  - \*of these only the book grant is paid directly to the eligible students
- (iv) IIST offers Four Year B.Tech courses in Aerospace Engineering; Electronics and Communication Engineering (Avionics) and Dual Degree Five Year Course (B.Tech/Master of Science or M Tech) (hereinafter called the "Courses").

(v) The Student named Mr/Ms.... Son/Daughter of in IIST during the academic year 2020-21. completion of ...... Programme at IIST with a minimum of 7.50 CGPA on a ten scale in four / five years of admission shall be considered for absorption as Scientist/Engineer 'SC' in any of the ISRO/DOS Establishments. However, the eligible student(s) with the required benchmark of 7.50 Cumulative Grade Point Average (CGPA) on a ten scale shall be given counseling for absorption, stream-wise, in the order of Merit only to the extent of vacancies notified by ISRO Headquarters for the purpose of absorption in the year of completion of the course. The said Student will not have any claim for absorption in ISRO/DOS against the other vacancies or the vacancies notified for absorption occurring thereafter in ISRO/DOS Establishments during subsequent years.

On successful completion of course and receipt of Offer of Absorption issued by ISRO/DOS, the student/obligor hereby agrees to serve ISRO/DOS for a minimum period of three years. The rejection of Offer of Absorption issued by ISRO/DOS will amount to non-fulfillment of service obligation of three years in ISRO/DOS.

(vi) The Student, Parent and Surety are required to furnish a Bond in favour of Director, IIST binding that the Student shall diligently complete the Course and, if inducted in ISRO/DOS as mentioned at condition (v) above, shall serve ISRO/Department of Space as nominated by the Government of India for a minimum period of three years.

Now in consideration of Director, IIST granting the Student the admission to the said Course, which offers specialized education leading to the Students' possible induction in the aforesaid jobs, We the Student, the Parent and the Surety do hereby jointly and severally undertake and promise to pay to Director, IIST the sums mentioned herein below and failing thereof to pay with interest calculated at the prime lending rate plus 3 percent per annum for the time the amounts remain unpaid.

The condition of the Bond is that if the student successfully completes the Course and if absorbed in ISRO/DOS in accordance with the stipulations mentioned at condition (v) above, serves ISRO/Department of Space immediately thereafter for a minimum continuous period of three years, the Bond shall become void; otherwise it shall be fully operative.

On successful completion of the course and probable absorption subject to conditions mentioned at (v) above, the Director, IIST shall assign his/her interest in the bond to the Director of Centre/Unit to which the student is absorbed for and on behalf of the President of India. The proceeds of the bond as and when assigned to Director of the Centre/Unit will become operative in the event the student fails to serve three years in ISRO/DOS from the date of his/her induction.

Other conditions of the Bond are as under:-

- 1. The Student shall undergo the Course and satisfy the attendance requirements as prescribed by the rules of IIST and shall not absent without prior permission from appropriate authorities of the IIST and that the Student, during the study at IIST, shall follow the prescribed rules, regulations, guidelines and other instructions as may be laid down by IIST from time to time.
- 2. In the event the Student is removed from the course for any of the following grounds, the Student, the Parent and the Surety shall pay to Director, IIST RUPEES TWO LAKHS plus the Assistanceship amount granted by the IIST during the Course.
  - (a) Unsatisfactory disciplinary conduct during the course at the IIST and till the date of induction into ISRO/DOS.
  - (b) Knowingly furnishing false particulars for admission to the IIST or
  - (c) Failing to give correct medical history as required at the time of counseling/admission.
- 3. The decision of the Director, IIST shall be final as to whether a student falls under condition 2(a, b or c) above.
- 4. In the event the Student withdraws from the IIST without completing the course, the Student, the Parent and the Surety shall pay to the Director the full Assistanceship amount or a part thereof (as decided by the Director), granted by the IIST during the course.
- 5. In the event the Student not fulfilling the ISRO/DOS induction criteria of completing the course within FOUR / FIVE years with a minimum Cumulative Grade Point Average (CGPA) of 7.50 or, as per the norms of IIST is a non performer on account of unsatisfactory academic progress and should consequently be removed from the rolls of the IIST, the Student, the Parent and the Surety shall repay the full Assistanceship amount or a part thereof, (as decided by the Director) paid to the Student during the course of study in the IIST.
- 6. In the event the Student (other than the Student belonging to SC, ST and PD category) while studying in IIST, fails to secure a minimum Grade Point Average (GPA) of 7.50 on a ten scale in any semester, the said Student will not be eligible for Assistanceship for the said semester.
- 6.1 For the student belonging to SC,ST and PD category, graded Assistanceship will be provided only if he/she secures a minimum GPA of 6.50 (in a scale of 10) in every semester. However SC, ST, PD category student, who secures a GPA of 5.50 and above, but less than 6.50 (in a scale of 10) in any semester, has to remit the pre-notified fees except for the Tuition fees to continue the studies in the said semester. In the event the SC, ST, PD category student secures a GPA of less than 5.50 (in a scale of 10) in any semester, he/she will not be eligible for Assistanceship for the said semester.

- 7. In the event the Student while studying in the IIST is found unfit on medical grounds and is removed from the rolls of the IIST on that account, the Student, the Parent and the Surety, shall pay such amount as may be decided by the Board of Management of IIST.
- 8. In the event the Student, after successfully completing the Course, refuses to take up Induction/service as offered by the ISRO/Department of Space, the Student shall be liable to pay to the Director, IIST, RUPEES TEN LAKHS WITH INTEREST FROM THE DATE OF COMPLETION OF PROGRAMME TO THE DATE OF REMITTANCE and in the event of the Student not doing so, the Parent and the Surety shall pay RUPEES TEN LAKHS WITH INTEREST FROM THE DATE OF COMPLETION OF PROGRAMME TO THE DATE OF REMITTANCE.
- 9. In the event the Student, having taken up induction, seeks release or does not satisfactorily complete service for a minimum continuous period of three years from the date of induction, the Student shall be liable to pay the following sums to the concerned Centre/Unit Director to whom the said bond has been assigned by Director, IIST for and on behalf of the President of India:-
  - (i) Student with less than one year of service in ISRO/DOS Rupees TEN Lakhs
  - (ii) Student with one to two year service in ISRO/DOS Rupees NINE Lakhs
  - (iii) Student with two to three year service in ISRO/DOS Rupees EIGHT Lakhs

and in the event the Student not doing so, the Parent and the Surety shall pay the sums as mentioned above.

- 10. In the event of any violations as above, necessitating recovery of any amount with interest from the Student, Parent and /or Surety, the Director, IIST or any other authority appointed in this regard will be at liberty to recover such amount or the loss assessed from any one or all of the above parties.
- 11. The education is sponsored for induction/absorption in ISRO/DOS subject to vacancies notified for absorption which may arise in ISRO/DOS in the year the Student/Obligor completes the course and not a gratuitous service. The Student, Parent and Surety are fully convinced of these matters and agreed the terms of this bond with free will and consent.
- 12. We (student, parent/guardian, surety) have thoroughly read and understood the terms and conditions provided in the Rules and Regulations of Students-2018 and agreed to abide by those terms and conditions and this bond is executed

13.	or otherwise, however, except as these present, the same shall b	ere is any dispute to the effect, meaning of these presents is to matters for which specific provision has been made in the referred to the sole arbitration of the Secretary to the ment of Space or any person appointed by him whose anding on the parties.			
	IN WITNESS WHEREOF the Student, the Parent and the Surety have set their respective hands on the day and				
	Witness (Name and Signature):	Student:			
		Parent:			
	Witness (Name and Signature):	Surety:			
		Accepted			
		Director			

#### APPENDIX-VI

## MEDICAL EXAMINATION REPORT - 2020 (To be issued by a Class 'A' Registered Medical Practitioner)

#### PERSONAL HISTORY

1.	Name	:
2.	Registration No	:
3.	Branch	:
4.	Parent / Guardian's Name	:
5.	Age	:YearsMonths
6.	Sex	:
7.	Identification Mark of the Body, if any	:
	( This can be a mole, scar or birthmark )	
8.	Major illness/ operation, if any	
0.		•
	( Specify nature of illness /operation )	
	MEDICAL CER'	TIFICATE
	(The following are to be filled by the Class	s 'A' Registered Medical Practitioner
	conducting the medic	al examination)
1. I	Heightcm	2. Weightkg
3. I	Past History	4. Chest
	a) Mental Disease	a) Inspirationcm
	b) Epileptic Fits	b) Expirationcm
5. I	Blood Group	6. Hearing
7. <b>V</b>	Vision with or without glasses	
	a) Right Eye	b) Left Eye
c)	Colour Blindness 8.	d) Uniocular Vision
Re	spiratory system	9. Nervous system

10. Heart	11. Abdomen
a) Sounds	a) Liver
b) Murmur	b) Spleen
12. a) Hernia	
b) Hydrocele	
13. Any other defects	
Certified	
that	son/daughter
of	
a) fulfils the prescribed standard of physical	l fitness and is FIT for admission to
IIST.	
b) does not fulfil the prescribed standard of	physical fitness and is unfit temporarily
unfit for admission due to following defe	ects.
Signature of the Medical Officer	Signature of the Candidate
	C
Full Name	
Medical Registration No	
Date	

Office Seal

#### Instructions to students regarding medical procedure at the time of admission to IIST

#### GENERAL EXPECTATIONS

Candidates should have good general physique, in particular,

- a) Chest Measurement should be not be less than 70 cm, with satisfactory limits of expansion and contraction
- b) Vision should be normal. In case of defective vision, it should be corrected to 6/9 in both eyes or 6/6 in the better eye.
- c) Hearing should be normal. Defective hearing should be corrected.
- d) Heart and lungs should not have any abnormality and there should be no history of mental disease or epileptic fits.
- e) Should undergo immunization schedule in full and furnish the certificate in the enclosed format signed by Civil Surgeon/Medical Officer of a Government Hospital.

#### RECOMMENDED VACCINATION SCHEDULE

#### 1) Varicella (Chicken Pox)

For those who have not had Chicken Pox or the vaccine, 2 doses of the vaccine with an interval of 4 weeks between the doses.

#### 2) Measles, Mumps and Rubella:

Adolescents, who did not receive the two-shot course of MMR vaccine, should receive 2 doses 4 weeks apart.

#### **CERTIFICATE**

This is to certify that	
S/o or D/o	residing
at	
has taken Varicella (Chicken Po	ox), Measles, Mumps, Rubella Vaccine and Hepatitis E
Vaccine from his hospital on	
	OR
This is to certify that	
S/o or D/o	residing
at	
has contacted Chicken Pox during	
Place:	Signature and seal of Civil Surgeon/Medical Officer
Date:	Name of the Hospital: