



Information Booklet

OCTOBER 17 - 23, 2016

WORLD SPACE WEEK

Remote Sensing : Enabling Our Future



Institute of Space Technology

WORLD SPACE WEEK 2016

October 19 - 22, 2016

INFORMATION BOOKLET

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Institute of Space Technology, Islamabad, Pakistan

Institute of Space Technology (IST) , Islamabad, Pakistan is a pioneer institution in Pakistan offering baccalaureate degree programs in Aerospace, Avionics, Electrical , Mechanical, Materials Science & Engineering and Space Science and Master / PhD degree programs in Aerospace, Electrical Engineering, Materials Science & Engineering , Remote Sensing & GISc , Mathematics, Astronomy and Astrophysics. The academic programs focus on well-founded scientific and theoretical framework to create professionals with thorough understanding of fundamentals and capability of applying their knowledge for research analysis and design purposes.

IST is ranked amongst top four engineering universities of Pakistan and is determined to expand the space education and especially the public's awareness in the field of Space Technology and applications. IST has etched its name among the foremost universities in the world who have built and launched a CUBESAT satellite. 'iCUBE-1' is the first CUBESAT satellite of Pakistan launched by Institute of Space Technology on November 21, 2013. Launch of iCUBE-1 is a significant milestone as it will motivate youth to take more active part in the Space technology development program of Pakistan.

The National Space Agency of Pakistan: SUPARCO Pakistan Space and Upper Atmosphere Research Commission

The Space and Upper Atmosphere Research Commission (SUPARCO) is the National Space Agency of the Government of Pakistan, responsible for the nation's public and civil space program and for aeronautics and aerospace research. Its mission statement and objective is to conduct peaceful research in space technology and promote the technology for socio-economic uplift of the country.

SUPARCO, being the National Space Agency, has been organizing World Space Week (WSW) activities in Pakistan since 2005. SUPARCO holds a number of events throughout Pakistan, primarily to create awareness amongst students, decision-makers and the general public about the peaceful uses of outer-space, the benefits of space-based assets to humanity, and the progress made by Pakistan in space technology and its applications. SUPARCO is celebrating World Space Week 2016 in major cities of Pakistan.

The World Space Week Association (WSWA) leads a global team of National Coordinators, who organize events within their own country. A global network of organizations and individuals coordinates this annual event at the national and local levels. These coordinators invite organizations to hold events, publicize the resulting WSW celebration through the media, and report on the results. Secretary SUPARCO is the official National Coordinator of WSW in Pakistan and manages, coordinates, sponsors and controls all the WSW related activities in Pakistan.



World Space Week

World Space Week is an international celebration of science and technology, and their contribution to the betterment of the human condition. The United Nations General Assembly declared in 1999 that World Space Week will be held each year from October 4-10. These dates commemorate two events, firstly the October 4, 1957, the Launch of the first human-made Earth satellite, Sputnik 1, thus opening the way for space exploration and secondly the October 10, 1967, the signing of the Treaty on Principles Governing the Activities of States in the Exploration and Peaceful Uses of Outer Space, including the Moon and Other Celestial Bodies.

World Space Week consists of space education and outreach events held by space agencies, aerospace companies, schools, planetaria, museums, and astronomy clubs around the world in a common time frame. These synchronized space events attract greater public and media attention. This week is thus the ideal time each year to use outer space and motivate students to learn about its peaceful uses and benefits for the mankind. The youth of today have so much to benefit from space. Space has changed their world and offers even greater excitement and opportunities to explore for their future. World Space Week celebrations aims to achieve the objectives, namely to educate people around the world about the benefits that they receive from space, to encourage greater use of space for sustainable economic development, to demonstrate public support for space programs, to excite young people about science and to foster international cooperation in space outreach and education.

World Space Week 2016 Remote sensing: Enabling Our Future

The theme for WSW 2016 is “Remote sensing-Enabling Our Future”. Remote Sensing: Enabling our Future” is an inward looking theme, which celebrates Earth Observation from Space for the betterment of the human race. It highlights a host of classic Earth Observation missions such as the U.S. Landsat mission, the work of intergovernmental categories such as GEOSS Category on Earth Observations and emphasizes applications such as environment and agriculture monitoring, land use mapping and new uses such as location based services.

The WSW 2016 celebrations at IST are augmented with several new events in order to create the awareness among the students, teachers and general masses about the peaceful uses of Space Science, technology and applications especially under the umbrella of WSW-2016 Theme, “Remote sensing-Enabling Our Future”. The broad area of activities include the competitions in the categories of Space Knowledge, Space Creative Writing , Space Fine Arts, Space Technology Application, Space Graphics, Space Gaming, Space Mathematica, Space Visual arts, Space Photography, Space Performing Arts. It also provides the Space Technology Awareness Arena and Space Technology Labs Expedition. It will also provide a plan for Teachers Training workshop, Space School and Space Technology awareness lectures.



World Space Week at Institute of Space Technology

Institute of Space Technology is the pioneer Institute of Pakistan, celebrating World Space Week since 2005 in collaboration with Pakistan Space & Upper Atmosphere Research Commission (SUPARCO). IST has the honor of organizing maximum events in Pakistan during WSW every year with the enthusiastic participation of its students and faculty.

IST inspires students of schools and colleges for WSW activities and celebrations. The number of events, participating students and schools has increased tremendously in the last ten years. The various space themed competitions, in the area of literature, fine arts, visual arts, performing arts, computer graphics and gaming, aero modeling, water rocket and space models making, space technology innovation and applications were held in yesteryears. IST has rendered services for the science teachers of private and public sector schools in the form of space technology teachers training workshop, space school, space caravan, space Biblio rendezvous, space career station, space awareness lectures and also broadcasted live lectures by the space experts to different universities of Pakistan and neighboring countries via Pakistan Higher Education Commission (HEC) video link.

It is a matter of great honor for Pakistan, IST and the National Space Agency of Pakistan, SUPARCO that World Space Week organization has ranked Pakistan as the No.1 country in the world for organizing maximum number of events during World Space Week 2015.

A total of 303 events were organized all across Pakistan at 14 different stations (cities) under the patronage of SUPARCO in WSW 2015. Institute of Space Technology (IST), Islamabad was at top with 109 events in Pakistan.

Institute of Space Technology, Islamabad, Pakistan organized World Space Week (WSW) 2015 from Oct 4-10, 2015. There were one hundred and nine (109) events and competitions under the theme of Discovery where more than hundred (100) schools of Islamabad/Rawalpindi and adjacent areas participated in the events with an outstanding participation of more than seven thousand (7000) students and their parents. WSW 2015 activities at IST surpassed all the other 14 stations in Pakistan.

World Space Week activities at IST received the widespread electronic, print and social media impression. The Facebook post reach was 35,723, Twitter impression was 20,29,718 along with 240 minutes airtime on FM radio and 140 minutes on national and private TV channels and extensive news coverage in 5 national newspapers.



General Rules and Regulations

- i. Events are divided into two main Levels as
Abecedarian Level Grade 5-8
Virtuoso Level Grade 9-12/O and A levels
Level for each event is indicated with event details.
- ii. Theme / Medium/ Titles and time limits will be followed strictly.
- iii. Use of indecent language, derogatory remarks (whether direct or implied) about important personalities, national leaders, political parties, government agencies, religion/ sect, teachers can lead to disqualification.
- iv. Any team found involved in any type of cheating (PDAs, Palm-tops, cell-phones etc.) will be disqualified with immediate effect.
- v. Participants of all competitions are required to be present at the stated venue/hall 15 minutes before the time mentioned in the program for the particular event.
- vi. Host will assign performance slots to the participants.
- vii. Confirmation of registration prior to start of event is compulsory.
- viii. 1st, 2nd, 3rd prizes shall be awarded for each Level of the competition but only ONE prize will be given if the contestants are less than 5 (five) in any competition. All the prize winners and participants will get the certificates too.
- ix. Any institute's pictures/ artwork/ video exhibiting vulgarity, racism, religious discrimination or any other offense will be disqualified.
- x. All routines, music, choreography and costumes must be suitable for family viewing. IST reserves the right to deduct points, disallow or disqualify any act for any reason, including those considered unpleasant or vulgar.
- xi. All participants are expected to act graciously during their stay at IST and interact with other participants, officials and judges respectfully. Failure to do so may result in disqualification from the event.
- xii. Participants must not attempt to manipulate the rules and regulations to their advantage.
- xiii. The use of tobacco or any other drug at IST premises is strictly prohibited.
- xiv. Distracting or interfering with any competitor, any official, judges or organizers can lead to disqualification.
- xv. Decision of judges and IST officials shall be final and unchallengeable. However, in case of any dispute, the verdict by the Deputy Director, Department of Student Affairs (IST) being the arbitrator, shall be final and binding on all the participants.
- xvi. Each school/college will be allotted 15 points for first position, 10 points for the second position and 7 points for the third position for each competition. At the end of all competitions, the team scoring maximum points in all competitions will be declared as the "Overall Champion of World Space Week 2016".
- xvii. Accommodation, Meals, Transport and TA/DA will NOT be furnished by IST.
- xviii. All student participants must bring their original CNIC / Student ID card. It is mandatory for participants to wear the student ID card throughout the event.
- xix. If any foreign student /faculty participant is interested to participate then a copy of passport with a cover letter from the school/college shall be sent before the event.
- xx. Original CNIC & School/ College ID card for the teacher/coordinator is obligatory.
- xxi. Limited number of supporters per competition will be entertained depending upon the availability of seats.



- xxii. On-spot registration is highly discouraged and will be done subject to the availability of positions in respective competitions only.
- xxiii. The artwork will remain the property of IST.

Note: IST reserves the right to change details / rules and regulations of the competitions without any prior notice.



A. SPACE KNOWLEDGE COMPETITIONS

1. SPACE IN QURAN: A TELESCOPE OF RELIGION

Description	Qiraat Competition: Verses from The Holy Quran related to the theme of Space Technology and Applications
Category	Prepared
Duration	2 – 3 Minutes
Level	Abecedarian & Virtuoso
Team	1 participant in each Level
Instructions	a. <i>Prepare a slideshow/ ppt. of the verses you chose to recite and their translation in English/Urdu for the ease and understanding of the audience. Please bring along ppt. at the time of the event</i>

2. UNITED NATIONS TALKING ABOUT SPACE: SPACEMUN

Description	This will be a conventional MUN style event having scientific committee on topic related to Space Technology and it's applications.
Category	Prepared
Duration	1 day
Level	Virtuoso
Team	2 Participants
Instructions	<p>a. <i>Model UN conferences adopt rules of procedure to establish when a delegate may speak and what he or she may address. Some conferences adopt a few simple rules, while others use lengthy and complex rules of procedure. Because each conference is independent.</i></p> <p>b. <i>During Formal debate, the staff maintains a speakers list and delegates speak in the order they are listed. At this time, delegates have an opportunity to share their views with the entire committee. Delegates make speeches, answer questions, and introduce and debate resolutions and amendments. The job of the chair will be to ensure that the committee must achieve its goal at the end of the day.</i></p> <p>c. <i>To go to a Moderated caucus, a delegate makes a motion to suspend debate and the committee votes. Caucusing helps to facilitate discussion, especially when there is a long speakers list. A moderated caucus is a mixture of both formal and informal debate. Anyone may speak if they raise their placard and are called on by the Chair.</i></p> <p>d. <i>In an Unmoderated caucus, delegates meet informally with one another and the committee staff to discuss and negotiate draft resolutions, amendments and other issues.</i></p> <p>e. <i>The main idea is to reach a common majority at the end of the day as the competition although similar in proceedings to MUN but is limited by the time.</i></p>



3. SPACE DECLAMATION: SPEAK FOR SPACE

Topics	1: Remote Sensing-Enabling Our Future”	1. ریموٹ سینسنگ اور ہمارا مستقبل
	2: Space for benefit of people	2. خلائی تحقیق برائے فلاح انسانیت
	3: Space Technology-A miracle	3. خلائی تحقیق: ایک معجزہ
Category	Prepared	
Duration	3-4 Minutes	
Language	Urdu & English	
Level	Abecedarian & Virtuoso	
Team	2 participants for each Level: <i>One to speak in Urdu and other in English</i>	
Instructions	<p>a. <i>Speaker will speak on any one of the above mentioned topics.</i></p> <p>b. <i>A speaker will speak for a minimum of 3 and a maximum of 4 minutes. First bell will ring after 3 minutes and final bell will ring after 4 minutes. Marks will be deducted for failing to observe the stipulated time limit.</i></p> <p>c. <i>Paper reading is not allowed otherwise it will result in negative marking.</i></p> <p>d. <i>Top three positions will be awarded in both Urdu and English in each Level depending upon aggregate points of judges.</i></p>	

4. SPACE QUIZ: SEEK KNOWLEDGE

Description	Quiz Competition
Language	English
Category	Prepared
Level	Virtuoso
Team	2 Participant
Instructions	<p>a. <i>Teams will be short listed for competition based on the results of qualifying round.</i></p> <p>b. <i>Most of the questions will be based on the information provided in the booklets available at the following link</i> http://www.suparco.gov.pk/pages/wsw-booklet.asp</p>

5. SPACE EXTEMPORE: SPEAKING SPACE

Description	Participants will deliver an extempore speech on any topic given on-spot, related with the theme of Space Technology and Applications.
Duration	2-3 Minutes
Language	Urdu & English
Category	On Spot
Level	Abecedarian & Virtuoso
Team	2 participants for each Level (1 for Urdu & 1 for English)
Instructions	<p>a. <i>Participant is allowed to speak for 2 to 3 minutes. The first bell will ring at 2 and the other at 3.</i></p> <p>b. <i>Participants will be told about the assigned topic 10 minutes before the start of event.</i></p>



B. SPACE INNOVATION

6. SPACE HERITAGE: SURFING GOOGLE EARTH

Description	Participants will have to mark (latitude-longitude-height) of some Space Heritage locations on Google Earth in given time.
Duration	2 Hours
Category	On spot
Level	Virtuoso
Team	2 participants
Instructions	<i>a. Participants need basic knowledge of google earth</i>

7. SPACE IMAGE PROCESSING: IMAGE INTERPRETATION

Description	Participants will be briefed about satellite image interpretation and then will be shown some images taken from Remote Sensing satellites. Participants will have to interpret these pictures.
Duration	2 hours
Category	On spot
Level	Virtuoso
Team	2 participants
Instructions	<i>a. A picture would be shown for a given time b. Participants would write down the feature shown in the image and it will be knock out round until two teams left will play to be winner.</i>

8. SPACE SETTLEMENT: COLONIZING SPACE

Description	Participating teams will have to design a colony in outer space with given constraints.
Duration	4 hours
Category	On spot
Level	Virtuoso
Team	2 participants
Instructions	<i>a. Ideas must be unique and should not have been proposed already, commercially or otherwise. b. Use factual data when designing the mission and satellite. c. Each team must bring their own laptop. d. Presentation should not be more than 20 minutes.</i>

9. APPLICATIONS OF REMOTE SENSING: SURVIVAL IN SPACE

Description	Participants have to bring power point presentations on “Applications of Remote Sensing”. There will be a Q&A session after presentation.
Duration	10-15 minutes
Category	Prepared
Level	Virtuoso
Team	2 participants
Instructions	<i>a. Applications must be well understood b. Presentation should cover at least 3 applications and at most 5 applications. c. Each team must bring their presentations in USB devices.</i>



10. SPACE DETECTIVES: GEO CACHING

Description	Participants will find clues of tasks on different locations and these locations will be found through Mobile phone GPS receivers.
Duration	3 hours
Category	On spot
Level	Virtuoso
Team	2 participants
Instructions	<ol style="list-style-type: none"> <i>Locations will be known locations in the campus.</i> <i>The participant is supposed to find the geotags using Mobile GPS sensors only.</i> <i>Participants should bring their own GPS supported Smart phones with internet package.</i>

11. MOVING TOWARDS PIN HOLE CAMERA DESIGN

Description	Participants will have to make a pinhole camera from the stuff provided. Photos taken by the camera will be developed in the black room set in IST. A pre-session talk on Pin hole Camera will be given by an expert too.
Duration	3 hours
Category	On spot
Level	Virtuoso
Team	4 participants
Instructions	<ol style="list-style-type: none"> <i>Participants would have to bring a BLACK shoe box per team</i> <i>The remaining material would be provided</i> <i>Participants have to make the camera in the given time and then more time would be given to take the pictures.</i> <i>The organizers would help the teams to get the pictures developed.</i>

12. SPACE TRAVEL: SPACE TUNNEL DESIGN

Description	Participants will have to design Space tunnels according to the distances between planets. Purpose of the tunnel is to travel between planets.
Duration	3 hours
Category	On spot
Level	Virtuoso
Team	3 participants
Instructions	<ol style="list-style-type: none"> <i>Use of any electronic gadget will lead to disqualification.</i>

13. SPACE FOR ENVIRONMENT: SAVE EARTH

Description	Participants have to bring power point presentations on the topic "Environment monitoring and protection using remote sensing". There will be a Q&A session after presentation.
Duration	10-15 minutes
Category	Prepared
Level	Virtuoso
Team	2 participants
Instructions	<ol style="list-style-type: none"> <i>Presentation shouldn't be longer than 15 minutes</i>



14. SPACE MISSION ANALYSIS AND DESIGN

Description	Participants will design remote sensing satellites theoretically and will finally present their satellite details to a panel of judges.
Duration	4 hours
Category	On Spot
Level	Virtuoso
Team	4 participants
Instructions	<ol style="list-style-type: none"> a. Teams are free to choose and design a mission. b. The mission idea should be original and plagiarism free. c. Teams must submit their presentations before the contest begins. d. The idea will judged based upon: <ol style="list-style-type: none"> i. How the mission is designed based upon the objective chosen by the team ii. Cost effectiveness iii. Originality iv. Technical detail and feasibility v. Presentation skill e. A model of your satellite, rover, orbiter or flyby is an added benefit

15. INVESTIGATING AIRSPACE: AIR CRASH INQUIRIES

Description	Participants will be shown a partial episode of Air Crash Investigations (Mayday) and then they will be asked to give reasons/explanations on the reasons behind the accident.
Duration	3 hours
Category	On spot
Level	Virtuoso
Team	2 participants
Instructions	<ol style="list-style-type: none"> a. Complete technical details are expected from teams in response. b. Laptops/Cell phones/internet is not allowed in this module c. Team is expected to submit a hand written response at the end. d. Team is expected to give Swiss Cheese Model/Poka-Yoke (Mistake Proofing) idea according to their findings. e. Each team will be given 7 minutes to convey their response to the given scenario, which means that the presentation must last for 7 minutes or less.

16. SPACE DEBRIS MANAGEMENT: SPACE JUNK DESIGN

Description	Participants will be asked to design and make useful model from junk on theme of "Space Technology and its Applications". Participants will be allowed to bring junk with them from home.
Duration	3 hours
Category	On Spot
Level	Abecedarian & Virtuoso
Team	2 participants from each Level
Instructions	<ol style="list-style-type: none"> a. Participants would bring the junk material and will build the model according to theme above mentioned on spot.



17. REMOTE SENSING: ENABLING PAKISTAN FUTURE

Description	This is a presentation based competition. Participants have to bring power point presentations on the topic “Remote sensing: Enabling Pakistan Future” presenting applications of remote sensing especially for Pakistan. There will be a Q&A session after presentation.
Duration	10-15 minutes
Category	Prepared
Level	Virtuoso
Team	4 participants
Instructions	<ol style="list-style-type: none"><i>Each team will have to present in their research work in the form of a report which will carry 10% weightage in the final result. The presentation should be in .ppt form and can comprise of audio, video, stills and other visual aids.</i><i>The team should avoid useless debate rather their arguments should be based on actual</i><i>The teams can be disqualified if the data shown is fake and is not properly referenced.</i><i>The team will also sit through 5 min question and answer session from judges.</i>



G. SPACE CREATIVE WRITING

18. SPACE FICTION: ESSAY WRITING

Theme	“Space Technology and it’s applications”
Duration	2 Hours
Category	On spot
Language	Urdu & English
Level	Abecedarian & Virtuoso
Team	2 participants in each Level : <i>One in Urdu and One in English</i>
Instructions	<i>Topic related with the above Theme will be given on the event time. (Approximate words 1000 – 1500)</i>

19. SPACE FICTION: STORY WRITING

Theme	“Space Technology and it’s applications”
Duration	2 Hours
Category	On spot
Language	Urdu & English
Level	Abecedarian & Virtuoso
Team	2 participants in each Level: <i>One in Urdu and One in English</i>
Instructions	<i>Topic/theme/outline related with the above theme will be given on the event time. (Approximate words 1000 – 1500)</i>

20. SPACE JOURNALISM: REPORT WRITING

Theme	“WSW 2016 at IST”
Duration	Oct 19, 2016: 1000 Hours – Oct 22, 1100 Hours
Category	On spot
Language	Urdu & English
Level	Abecedarian & Virtuoso
Team	2 participants in each Level : <i>One in Urdu and One in English</i>
Instructions	<ol style="list-style-type: none"> a. <i>Each student has to cover WSW 2016 at IST and write a report on it.</i> b. <i>Participants will write a report on fourth day of the event, on spot. (Approximate words 800 – 1000)</i> c.

21. SPACE SLOGAN: CATCH THE SPACE PHRASE

Theme	“Space Technology and it’s applications”
Duration	30 Minutes
Category	On spot
Language	Urdu & English
Level	Abecedarian
Team	2 participants : <i>One in Urdu and One in English</i>
Instructions	<i>Each participant has to write as many slogans as he/she can in 30 minutes.</i>



22. SPACE VOCABULARY: SPELLATHON

Theme	“Space Technology and it’s applications”
Language	English
Category	On spot
Duration	2 hours
Level	Abecedarian
Team	2 participants
Instructions	<p>a. <i>Teams will be short listed for competition based on the results of qualifying round.</i></p> <p>b. <i>Most of the words will be taken from the documents available at the following link. http://www.suparco.gov.pk/pages/wsw-booklet.asp</i></p>

23. SPACE POETRY: WHERE WORDS EXPRESS

Theme	“Space Technology and it’s applications”
Language	Urdu
Category	Prepared
Duration	3 minutes
Level	Virtuoso
Team	1 participant
Instructions	<p>a. <i>Poetry (Nazm/Ghazal), chosen/written should be related to the Theme.</i></p> <p>b. <i>Each participant has to submit four copies of Ghazal/Nazm at least one hour before the event.</i></p>



D. SPACE TECHNOLOGY APPLICATIONS

24. AIRCRAFT DESIGN: AERO MODELING

Description	Participants will be provided with ready to assembly rubber propeller aircraft kits.
Duration	3 Hours
Category	On Spot
Level	Virtuoso
Team	4 participants
Instructions	<i>Range will carry 30%, Endurance will carry 30% while Q&A session with Judges will carry 40% of total marks</i>

25. FLYING WINGS: GLIDER FLYING

Description	Each team will be given balsa wood along with other necessary stuff to make a glider in a given time slot. Winners will be decided after test flights.
Category	On Spot
Duration	4 Hours
Level	Virtuoso
Team	4 participants
Instructions	<ol style="list-style-type: none"> a. <i>An introductory training session will be held at the start of competition in which participants would be given demonstration of glider design and making.</i> b. <i>IST students will help and guide the participants during the design build and fly.</i>

26. LAUNCHING ROCKET: WATER ROCKET

Description	Participants will be provided with all the necessary items to make two water rockets.
Category	On Spot
Duration	4 Hours
Level	Virtuoso
Team	4 participants
Instructions	<ol style="list-style-type: none"> i. <i>Water Rocket-Simple Projectile</i> <ol style="list-style-type: none"> a. <i>One of the two build rockets will demonstrate the concept of simple projectile motion.</i> b. <i>IST students will help and guide the participants during the design and launch.</i> c. <i>Simple projectile rocket will carry accuracy marks with the target.</i> d. <i>During the competition, each team will be given opportunity to conduct two launches. The result of the best launch will be recorded.</i> e. <i>Launcher will be provided by IST.</i> f. <i>The launches will be judged on the basis of design and creativity of the nose cones and fins.</i>



ii. Water Rocket-Parachute Pay drop

In addition to above rules, following additional rules are valid

- a. Parachute design is mandatory.*
- b. It will be judged on parachute design and its effect on payload (Empty bottle) fall.*

27. DESIGNING SAFE LANDING: PARA EGGS

Description	Participants will have to design a safe landing for eggs from a height of around 40 feet using parachutes designing.
Category	On Spot
Duration	3 Hours
Level	Virtuoso
Team	2 participants
Instructions	<ol style="list-style-type: none"> <i>a. An introductory training session will be held at the start of competition in which participants would be given demonstration.</i> <i>b. IST students will help and guide the participants during the Competition.</i>

28. KINDERGARTEN FLYING: BOOMERANG WINGS

Description	Participants will be given specific time to design and make paper Boomerangs (Paper Planes which come back to the throwers hand after flying). These planes will be judged on different parameters.
Category	On Spot
Duration	3 Hours
Level	Virtuoso
Team	2 participants
Instructions	<p>i. Accuracy</p> <p><i>There will be a field of predefined circles (of different radius), participant would have to throw the boomerang from the center and collect accuracy points depending on where the boomerang returns and lands.</i></p> <ol style="list-style-type: none"> <i>a. Participant is not allowed to touch or stop the boomerang when it returns.</i> <i>b. Two tries will be given to every team for this round.</i> <i>c. Accuracy and Endurance will be marked.</i> <p>ii. Trick Catch</p> <p><i>In this round you have to catch the boomerang but here points are awarded for some unusual catches. A team can try two of the following.</i></p> <ol style="list-style-type: none"> <i>a. Left hand catch (5 points)</i> <i>b. Right hand catch (5 points)</i> <i>c. Behind the back catch (8 points)</i> <i>d. Eagle catch (10 points)</i> <i>e. Hackey sack catch (10 points)</i> <i>f. One hand behind the back catch (10 points)</i> <i>g. Foot catch (10 points)</i>



29. EXPERIMENTING THRUST: BALLOON CART

Description	A small cart will be made using items provided and it will be propelled through a balloon using Newton's law of action and reaction.
Category	On Spot
Duration	3 Hours
Level	Virtuoso
Team	2
Instructions	<ol style="list-style-type: none"> An introductory training session will be held at the start of competition in which participants would be given demonstration. IST students will help and guide the participants during the Competition.

30. CONTROLLING THRUST: PROPELLER POWERED CAR

Description	A team will have to design and build a car powered by a propeller attached with the car. As the fan starts rotating, it should force the car to move forward.
Category	On Spot
Duration	2 Hours
Level	Virtuoso
Team	2 participants
Instructions	<ol style="list-style-type: none"> Not more than 1.5 hours will be given for building this car The car should at least cover 10 feet distance to qualify for the judgement. Participants are required to build the car with the given material only.

31. SPACE MODELS-DISPLAY

Description	The participants will bring self-designed models on the Theme "Remote Sensing- Enabling Our Future" which will be displayed at IST.
Category	Prepared
Duration	Models will be displayed for event day
Level	Abecedarian & Virtuoso
Team	4 participants in each Level
Instructions	<ol style="list-style-type: none"> Any institute participating in the exhibition will be limited to displaying one model Display space is limited. IST will only provide one table and two chairs Exhibitors are responsible for the safety and security of their displayed Models while IST will do its best to protect the displayed items; it assumes no liability for any damage and/or loss that may occur Items that may contain components from proscribed (illegal) types cannot be entered in IST.



32. SPACE TECHNORAMA: TECHNICAL POSTER DESIGN

Description	Participants will have to design and present their technical posters on “Remote Sensing – Enabling our Future.”
Category	On Spot
Duration	3 hours
Level	Virtuoso
Team	3 participants
Instructions	<ol style="list-style-type: none"> A sample technical poster will be presented in front of you for reference. Copying Data without proper referencing will result in deduction of marks.

33. SPACE THERMODYNAMICS: HOT AIR BALLOON

Description	Participants will have to design a hot air balloon using material provided
Category	On Spot
Duration	3 hours
Level	Virtuoso & Abecedarian
Team	2 participants
Instructions	<ol style="list-style-type: none"> A pre-event workshop will be held providing necessary information. Achievement of maximum height in minimum time will yield maximum marks.

34. SPACE SWIRL: PIN WHEELS DESIGN

Description	Participants will have to design 3 different pinwheels using material provided
Category	On Spot
Duration	1.5 hours
Level	Virtuoso & Abecedarian
Team	2 participants
Instructions	<ol style="list-style-type: none"> A pre-event workshop will be held providing necessary information. Proper Designing and building of all three different pinwheels in allocated time is compulsory to qualify for prize. Judgement will be made on basis of maximum time it swirls along with design clarity and uniqueness.

35. CAN SATELLITE WORKSHOP

Description	This workshop is aimed to create awareness about a working model of Satellite payload in a soft drink can. Two modules will cover briefing on Hardware and Software parts This workshop will make participants able to participate in international CanSat events.
Duration	2 hours
Level	Virtuoso & Abecedarian
Team	4 Participants from each Level



E. SPACE FINE ARTS

Following rules are applied to all events of Space Fine Arts Level.

- a. *The host will provide drawing sheets only.*
- b. *The artwork will remain property of IST.*
- c. *The participant should bring their own painting/sketching/other required material.*

In addition to these, event wise specific rules are mentioned as well.

36. COLORS IN SPACE: PAINTING

Theme	“Remote Sensing-Enabling Our Future”
Category	On Spot
Duration	3 Hours
Level	Abecedarian & Virtuoso
Team	2 participants : One for each Level
Instructions	<i>The paintings will be judged on the basis of innovation, originality, color combinations, visual appeal and relevance to the Theme.</i>

37. SPACE ARTS: SKETCHING

Theme	“Remote Sensing-Enabling Our Future”
Category	On Spot
Duration	3 Hours
Level	Abecedarian & Virtuoso
Team	2 participants : One for each Level
Instructions	<i>The sketches will be judged on the basis of innovation, originality, visual appeal and relevance to the Theme.</i>

38. SPACE TEXT: CALLIGRAPHY

Theme	“Space Technology and it’s applications”
Category	On Spot
Duration	3 Hours
Level	Abecedarian & Virtuoso
Team	2 participants : One for each Level
Instructions	<ol style="list-style-type: none"> a. <i>No more than 3 ayahs can be portrayed.</i> b. <i>Participants should use known Arabic calligraphic scripts for their artwork.</i>

39. PAINT THE SPACE: WALL GRAFFITI

Theme	“Remote Sensing-Enabling Our Future”
Category	On Spot
Duration	3 Hours
Level	Virtuoso
Team	2 participants
Instructions	<i>Work should be original and in accordance with the Theme</i>

40. SPACE CHARACTERS

Description	The participant has to design an alien or a caricature in a specified time.
Category	On Spot
Duration	2 Hours
Level	Virtuoso & Abecedarian
Team	1 participant in each Level



41. SPACE MASKS

Description	Participants will design masks using chart papers on the theme “Space Technology and it’s applications”
Category	On Spot
Duration	2 Hours
Level	Virtuoso
Team	2 participants

42. SPACE DESIGNING: MODEL MAKING

Theme / Description	The participants will make space models on the Theme “Space Technology and its applications”, which will be displayed at IST.
Category	On Spot
Duration	3 Hours
Level	Abecedarian & Virtuoso
Team	4 participants : Two for each Level
Instructions	<i>The host will provide the material to make only one model and it will be an on-spot event</i>



F. SPACE VISUAL ARTS

43. SPACE FROM CAMERA LENS: VIDEOGRAPHY

Description	Participants will bring videos on the theme of “Remote Sensing: Enabling our Future”.
Category	Prepared
Duration	5-6 minutes
Level	Virtuoso
Team	1 participant
Instructions	<ol style="list-style-type: none"> a. <i>The short film/documentary can be a collection from internet but according to Theme and referenced properly.</i> b. <i>The videos will be played on multimedia through computer; therefore, they must be formatted on CD's / USB. No VHS recording will be entertained</i> c. <i>The participants must bring an additional copy of their work</i> d. <i>The participants must bring a copy of their work (CD/ DVD) at least one day before the competition in order to screen test the documentary/ short film.</i>

44. SPACE FROM CAMERA LENS: PHOTOGRAPHY – EARTH SELFIE

Description	Participants will have to bring <i>Three</i> pictures of earth taken from any remote sensing satellite with complete description of that satellite.
Category	Prepared
Duration	Will be displayed on event day
Level	Abecedarian & Virtuoso
Team	1 participant in each Level
Instructions	<ol style="list-style-type: none"> a. <i>Size: 6×8 inches (Untreated; without frames pasted on the black sheet)</i>

45. WSW – 2016 SELFIE

Description	Participants will submit <i>FIVE</i> WSW 2016 Event selfies throughout the World Space Week 2016 at IST.
Category	On Spot
Duration	Will be displayed on 4 th day
Level	Abecedarian & Virtuoso
Team	2 participants from each Level
Instructions	<ol style="list-style-type: none"> a. <i>Selfie should be correlated with the wsw 2016 at IST.</i> b. <i>Best selfies depicting the event and the individual will win.</i>

46. SPACE PHILATELY: STAMPS COLLECTION

Theme	“Space Technology and its applications
Category	Prepared
Duration	Will be displayed on event day
Level	Abecedarian
Team	1 participant
Instructions	<ol style="list-style-type: none"> a. <i>Participants will bring pictures of FIVE commemorative Space Technology Postage Stamps.</i> b. <i>Size: 6×8 inches (Untreated; without frames pasted on the black sheet)</i>



47. SPACE COINS: COINS COLLECTION

Theme	“Space Technology and its applications
Category	Prepared
Duration	Will be displayed on event day
Level	Abecedarian
Team	1 participant
Instructions	<i>a. Participants will bring pictures of FIVE commemorative Space Technology coins</i> <i>b. Size: 6×8 inches (Untreated; without frames pasted on the black sheet)</i>



G. SPACE GRAPHICS

Following rules are applied to all events of Space Graphics Level.

- a. *Participants will not be allowed to bring along any pre-made stuff*
- b. *Internet facility will be provided*
- c. *Allowed Software are Adobe Photoshop, Adobe Illustrator, Corel draw, MS Paint*
- d. *The participants will have to hand over the PSDs (Photoshop files) for judgement.*

48. SPACE MEMENTO: SOUVENIR DESIGN

Theme	“Space Technology and its applications”
Category	On Spot
Duration	2 Hours
Level	Virtuoso
Team	1 participant

49. SPACE GRAPHICS: E POSTER DESIGN

Theme	“Remote Sensing-Enabling Our Future”
Category	On Spot
Duration	2 Hours
Level	Virtuoso
Team	1 participant

50. SPACE COMMEMORATIVE POSTAGE: STAMP DESIGN

Theme	“Space Technology and its applications”
Category	On Spot
Duration	2 Hours
Level	Virtuoso
Team	1 participant

51. SPACE IN CYBERSPACE: WEBPAGE DESIGN

Theme	“Remote Sensing-Enabling Our Future”
Category	On Spot
Duration	2 Hours
Level	Virtuoso
Team	1 participant

52. SPACE COMMEMORATIVE COINAGE: COINS DESIGN

Description	Participants will have to design TWO Coins on the theme “Space Technology and its Applications.”
Category	On Spot
Duration	2 Hours
Level	Virtuoso
Team	1 participant

53. SPACE FASHION DESIGN: SPACESUIT DESIGN

Theme	Participants will design the external look of the space suites / Helmet.
Category	On Spot
Duration	2 Hours
Level	Virtuoso
Team	1 participant



H. SPACE MATHEMATICA

54. SPACE MATHEMATICS: ESCAPE FROM INFINITY

Description	Participant will be judged for their secondary and higher secondary basic mathematics concepts and skills.
Category	On Spot
Duration	2 Hours
Level	Virtuoso
Team	1 participant

55. SPACE MATHEMATICA: MATHEMATICAL HUNT

Description	Participant will be judged for their secondary and higher secondary basic mathematics concepts and skills.
Category	On Spot
Duration	2 Hours
Level	Virtuoso
Team	2 participants
Instructions	<ol style="list-style-type: none"> a. Questions based on mathematics are given to teams at the starting point, and from there on each question's answer leads to a specified location. b. The team that solves the most of questions in minimum time will win c. The teams will be evaluated based on their solutions and the time in which they returned d. The difficulty level will be according to their curriculum

56. SPACE MATHEMATICA: MATHOMETER

Description	This is a Mathematics based quiz having four rounds of different difficulty. Participant will be judged for their secondary and higher secondary basic mathematics concepts and skills.
Category	On Spot
Duration	3 Hours
Level	Virtuoso
Team	2 participants
Instructions	<ol style="list-style-type: none"> a. There will be 4 rounds in the event b. Each round will have a different set of questions with different rules and methods e.g. oral blitz round, written categorical round etc. with questions based on mathematics c. The correct answers will be awarded points d. The team with most points at the end of the final round will be declared winner e. Each team may bring other tools such as calculators etc. (IST will not provide these items) f. The difficulty level will be according to their curriculum



I. SPACE ENTERTAINMENT

57. SPACE RAMP: SPACE CHARACTERS WALK

Theme	“Space Technology and its applications”
Category	Prepared
Duration	3 Hours
Level	Abecedarian
Team	2 participants
Instructions	<ol style="list-style-type: none"> a. Kids wearing space costume will have a cat walk on the ramp b. Every kid will have a cat walk for two time c. Arrive backstage at least 30 minutes before the event

Following rules are applicable to both Space Tableau and Space Theatre events in addition to rules mentioned with events.

- a. IST will not provide any gadget/instruments that are involved in your performance
- b. The house sound system will be provided by the IST team and will be scaled to the venue used and reasonable requirements of the contestants. The Event heads will have absolute control over the sound system
- c. Only those props are allowed that can be carried on by the performer or performers assistant that do not require extensive set-ups. No fire, smoke, knives, animals etc. will be allowed

58. SPACE KIDS: TABLEAU

Theme	“Space Technology and its Applications”
Category	Prepared
Duration	5-7 Minutes
Level	Abecedarian
Team	1 Team (<i>maximum 10 participants</i>)
Instructions	<ol style="list-style-type: none"> a. Each participant/team is required to send the details of their performance including duration of their act with the registration form

59. SPACE THEATRE

Description	“Space Technology and its Applications”
Category	Prepared
Duration	10-15 Minutes
Level	Virtuoso
Team	1 Team
Instructions	<ol style="list-style-type: none"> a. Only major props like tables and chairs will be provided by the host b. No modification to stage acts, equipment or sound is to be made for any attraction without the approval of the Event managers and coordinator



60. ENTERTAINMENT IN SPACE: DOTA 2

Description	Participating teams will battle to secure dominance over the enemy territories and will destroy the nexus. It is an e-gamming event.
Category	On Spot
Duration	8 hours
Level	Virtuoso
Team	5 participants
Instructions	<ol style="list-style-type: none"> Each Team will consist of 5 players. Category Stage Matches will all be 1 round match. Final winner will be decided with a best of three match.

61. ENTERTAINMENT IN SPACE: SPACE STRIKE

Description	This event is basically Counter Strike - (De-moon) version.
Category	On Spot
Duration	9 hours
Level	Virtuoso
Team	5 participants
Instructions	<ol style="list-style-type: none"> 5v5 team event 13 rounds - 1 match in Category stages 16 rounds and best of 3 in final matches Winner will be decided on point basis Hacking will result in disqualification of the team

62. ENTERTAINMENT IN SPACE: RISE OF NATIONS

Description	E – Gaming Competition, Single participant free for all match comprising of 8 participants and the player with highest score at the end of allocated time will be declared winner.
Category	On Spot
Duration	4 hours
Level	Virtuoso
Team	1 participant
Instructions	<ol style="list-style-type: none"> A map of 8 nations Winner will be declared by Territory score. Total match time will be - 3 hours 30 minutes.

63. SPACE TALES: STORYTELLING

Description	Participants will do the storytelling on the theme of Space Technology and its Applications.
Category	Prepared
Duration	5-7 minutes
Level	Abecedarian & Virtuoso
Team	2 participants in each Level (1 for English and 1 for Urdu)
Instructions	<ol style="list-style-type: none"> The story should be self - written. The story should not be more than 7 minutes.



J. SPACE ENTREPRENEURSHIP

64. SPACE BUSINESS: SATELLITE MARKETING

Description	This is a presentation based competition. Participants will be assigned with one remote sensing satellite from Operational in orbit satellites and will be asked to create its marketing campaign in specified time.
Category	On Spot
Duration	3 hours
Level	Virtuoso
Team	2 participants
Instructions	<ol style="list-style-type: none"> <i>The marketing campaign should be original</i> <i>If an idea is taken from internet, it should be referenced properly.</i> <i>The marketing plan along with marketing campaign should be explained in a power point presentation of maximum 7 and minimum 5 minutes.</i>

65. SPACE COMMERCIALIZATION: FINDING SPACE CLIENTS

Description	This is a presentation based competition. Participants have to make power point presentations on how remote sensing can be used commercially. There will be a Q&A session after presentation.
Duration	3 hours
Team	2 participants
Level	Virtuoso
Instructions	<ol style="list-style-type: none"> <i>The commercial use should be explained financially in a .ppt file, ranging from 5-7 minutes.</i> <i>If a company is developed on basis of provided application, it should be self-sustainable.</i> <i>Inappropriate graphics/language will result in dis qualification.</i>



K. SPACE AWARENESS

66. SPACE CHARACTER PARADE

Description	This is Space Awareness walk, all participants of Space Parade in their space costumes will take part in this walk which will be held in IST.
Category	Prepared
Duration	30 minutes
Level	Abecedarian & Virtuoso
Team	Participants of Space Ramp, Space Tableau and Space Theatre who are in specific space related costumes along with other participants

67. SPACE FOR ALL: SPACE SIBLINGS

Description	This event is aimed to spread Space awareness among the under-privileged kids of remote areas.
Duration	All three days

68. EXPLORING UNIVERSE: TELESCOPY

Description	An Expert will be delivering an on spot talk on Telescopy and uses of telescopes and at the end he will demonstrate the use of telescopes.
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69. NAVIGATING UNIVERSE: ASTROLABE

Description	An Expert will be delivering an on spot talk on Astrolabe and how it is used, at the end he will demonstrate the use of Astrolabe.
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70. SOLAR OBSERVATION: SOLAR TELESCOPY

Description	This event aims toward awareness about Solar Observations and it will be done with the help of solar telescope.
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71. SPACE SIMULATIONS

Description	“Planetarium” : A Sky simulation show by Pakistan Science Foundation
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72. SPACE CINEMA

Description	A space related movie “The Martian” will be screened in IST.
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73. SPACE LAB EXPEDITION

Description	A descriptive and detailed laboratory visit including Supersonic laboratory, iCube laboratory, Geo Spatial laboratory, UAV laboratory and much more
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74. SPACE MEMORABILIA

Description	A roller-coaster ride in supervision of an expert through the history of Space program of Pakistan.
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75. AIRCRAFT DEMONSTRATION

Description	A session with expert on Mushaq aircraft, laying sound foundations of aerodynamics.
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76. SPACE BIBLIO CORNER

Description	A book stall and library having books on the Theme of Space Technology, Navigation and Applications.
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77. SPACE CARAVAN

Description "Mobile Lectures & Movies" : A mobile bus to show space related movies and documentaries

78. SPACE CAREER STATION

Description A panel of Space Technology experts to guide the students and teachers for careers in Space Technology

79. SPACE FAIR

Description A galaxy of different stalls and arenas, providing space related souvenirs and adding fun part to the event

80. SPACE STUDIO

Description A space based photograph booth where you can get your space portrait.



MEET THE TEAM

DEPARTMENT OF STUDENT AFFAIRS

Dr. Najam Abbas Naqvi
Deputy Director | Asst. Professor
Design, Planning and Management Head

Raza Butt
Assistant Director
Media, Publicity and Publications Head

Waqas Jelani Joiya
Logistics Head

Muhammad Adeel
Graphic Designing Head

Waqas Ramzan
Data Management Head

Zeeshan Fareed
Honorary Event Design Manager

COLLABORATIVE IST STUDENT SOCIETIES

AIAA-IST Chapter President: Usama Ahmed	Space Society President: Aqib Khan
ASME-IST Chapter President: Aamir Rafique	MAC-IST Chapter President: Arslan Ayaz
IMECHE-IST Chapter President: Muhammad Faizan	ASHRAE-IST Chapter President: Muhammad Farhan
IET Community President: Awais Ali Shah	Art IST President: Mahnoor Nadeem
Aouj-Performing Arts President: Sheheryar Khan	IST Media Club President: Ayaz Shahzad
MATHEMA-Mathematics Society President: Noman Mateen	E-Gaming Society President: Awais Ahmed
Environmental Society President: Basil Tufail	IST Youth Club President: Hadia Shahid Bukhari
UMEED-IST Philanthropic Society President: Zeeshan Ashraf	AWAZ Debating Society President: Awais Ahmed
IST Literary and Cultural Society President: Faaiz Jeelani	IST Entrepreneurial Society President: Danial Amin



GET CONNECTED

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RESOURCE WEBSITES

United Nations Office for Outer Space Affairs

<http://www.oosa.unvienna.org/index.html>

World Space Week Association

<http://www.worldspaceweek.org/wsw/>

Pakistan Space & Upper Atmosphere Research Commission (SUPARCO)

<http://www.suparco.gov.pk/>

<http://suparco.gov.pk/webroot/pages/wsw.asp?wswlinkid=1>

Institute of Space Technology, Islamabad, Pakistan

<http://www.ist.edu.pk/wsw/2015>

Space Educators Handbook

<http://er.jsc.nasa.gov/seh/>



WSW-2016 Tentative Program

DAY 01, OCTOBER 19, 2016, WEDNESDAY													
Time/Venue	0930-1000	1000-1030	1030-1100	1100-1130	1130-1200	1200-1230	1230-1300	1300-1330	1330-1400	1400-1430	1430-1500	1500-1530	1530-1600
Auditorium	Opening Ceremony		Space in Quran										
CR- 207	Applications of Remote Sensing								Space: Enabling Pakistan's future				
CR- 321	Space Journalism				Space Spellathon								
CR- 322	Story Writing (Urdu)												
CR- 323	Story Writing (English)												
CR- 218	Space Image Processing												
CR-301	Space Siblings												
Lab - 123	Space Heritage with Google Earth						Satellite Marketing						
Lab - 124	Space E-Poster Design						Space Souvenir Design						
Lab - 303	Dota 2												
Front Lawn	Aeromodelling								Space Junk Art				
Side Lawn	Painting & Calligraphy								Space Character Design & Space Masks				
Space Galleria/BL	Space Models Making: Display (Prepared)												
Main Block-Backside	Space Detectives												
Main Block	Space Studio, Space Simulations, Space Lab Expeditions and Space Career Station												
Stall Space	Space Fair												



DAY 02, OCTOBER 20, 2016, THURSDAY

Time/Venue	0930-1000	1000-1030	1030-1100	1100-1130	1130-1200	1200-1230	1230-1300	1300-1330	1330-1400	1400-1430	1430-1500	1500-1530	1530-1600
Auditorium	Space Declamation-Urdu												
CR- 206	Can Sat Workshop						Space Cinema						
CR- 206	Air crash Inquiries												
CR- 321	Space Slogan												
CR- 322	Essay Writing-English												
CR- 323	Essay Writing-Urdu												
CR- 218	Space Mission Analysis and Design												
CR-301	Space Siblings												
Lab - 123	Space Technorama; Technical Poster Design						Space Commercialization						
Lab - 124	Space Web Page Design				Space Stamp Design								
Lab - 303	Space Strike												
Front Lawn	Flying Wings (Glider)						Photograph Through Pin Hole						
Side Lawn	Sketching						Propeller Powered Car						
Space Galleria/BL	Painting & Calligraphy Display												
Block 2	Wall Graffiti												
Main Block-Backside								Mathematical Hunt					
Main Block	Space Studio, Space Simulations, Space Lab Expeditions and Space Career Station												
Stall Space	Space Fair												



DAY 03, OCTOBER 21, 2016, FRIDAY

Time/Venue	0930-1000	1000-1030	1030-1100	1100-1130	1130-1200	1200-1230	1230-1300	1300-1330	1330-1400	1400-1430	1430-1500	1500-1530	1530-1600
Auditorium	Space Declamation-English												
CR- 206	Space Quiz						Space Poetry						
CR- 207	Space Videography					Space Tales; Story Telling (Urdu & English)							
CR- 321	Mathometer												
CR- 322	Escape from Infinity												
CR- 323	Boom-e- Rang Wings												
CR- 218	SpaceMUN												
CR-301	Space Siblings												
Lab - 123	Space Commemorative Coins					Colonizing Space							
Lab - 124	Space Suit Design												
Lab - 303	Rise of Nations												
Front Lawn	Para Eggs						Space Tunnel						
Side Lawn	Model Making						Space Balloon Cart						
External Stage	Space Parade	Space Ramp	Space Tableau					Space Theater					
Space Galleria/BL	Sketching, Photography & Junk Art Display												
IST Back Lawn	Hot Air Balloon					Pinwheel Design							
Main Block-1st Floor	Earth Selfie, Space Philately and Space Coins Photography Display												
Main Block	Space Studio, Space Simulations, Space Lab Expeditions and Space Career Station												
Stall Space	Space Fair												



DAY 04, OCTOBER 22, 2016, SATURDAY

Time/ Venue	0930- 1000	1000- 1030	1030- 1100	1100- 1130	1130- 1200	1200- 1230	1230- 1300	1300- 1330	1330- 1400	1400- 1430	1430- 1500	1500- 1530	1530- 1600
Auditorium	Extempore Space Speech								Award Ceremony				
CR- 206	Saving Environment through Remote sensing												
CR- 207	Space Journalism Phase - 2												
Front Lawn	Water Para Projectile (Water Rocket)												
Space Galleria/BL	Space Models & Space Tunnel Display												
Main Block	Space Studio, Space Simulations, Space Lab Expeditions and Space Career Station												
Stall Space	Space Fair												



Registration Form



WORLD SPACE WEEK 2016 October 17-22, 2016 REGISTRATION FORM



Please fill and send this form to the below given address, fax/ email before October 10, 2016.

School/ College Name: _____

School/ College Address: _____

Phone number: _____ **Fax number:** _____

School/ College Coordinator for WSW-2016: _____

Mobile no.: _____ **Email:** _____

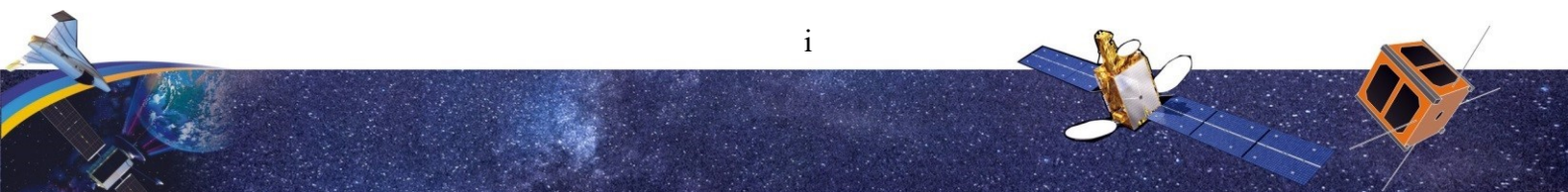
CNIC: _____

PARTICIPATION CONFIRMATION: Please tick (✓) the relevant Competitions in which your institution is participating

Abecedarian Level
Virtuoso Level

Grade 5-8
Grade 9-12/O and A levels

Space Knowledge			
<input type="checkbox"/>	Space In Quran	Prepared	Abecedarian Level
<input type="checkbox"/>	Space In Quran	Prepared	Virtuoso Level
<input type="checkbox"/>	Space MUN-Model United Nations	Prepared	Virtuoso Level
<input type="checkbox"/>	Space Declamations (Urdu)	Prepared	Abecedarian Level
<input type="checkbox"/>	Space Declamations (Urdu)	Prepared	Virtuoso Level
<input type="checkbox"/>	Space Declamations (English)	Prepared	Abecedarian Level
<input type="checkbox"/>	Space Declamations (English)	Prepared	Virtuoso Level
<input type="checkbox"/>	Space Quiz	Prepared	Virtuoso Level
<input type="checkbox"/>	Space Extempore Speech (Urdu)	On Spot	Abecedarian Level
<input type="checkbox"/>	Space Extempore Speech (Urdu)	On Spot	Virtuoso Level
<input type="checkbox"/>	Space Extempore Speech (English)	On Spot	Abecedarian Level
<input type="checkbox"/>	Space Extempore Speech (English)	On Spot	Virtuoso Level
Space Innovation			
<input type="checkbox"/>	Surfing using Google Earth	On Spot	Virtuoso Level
<input type="checkbox"/>	Space Image Processing	On Spot	Virtuoso Level
<input type="checkbox"/>	Colonizing Space	On Spot	Virtuoso Level
<input type="checkbox"/>	Applications of Remote Sensing	Prepared	Virtuoso Level



<input type="checkbox"/>	Space Geo Caching	On Spot	Virtuoso Level
<input type="checkbox"/>	Pin Hole Camera Design	On Spot	Virtuoso Level
<input type="checkbox"/>	Space Tunnel Design	On Spot	Virtuoso Level
<input type="checkbox"/>	Save your Environment	Prepared	Virtuoso Level
<input type="checkbox"/>	Space Mission Analysis and Design	On Spot	Virtuoso Level
<input type="checkbox"/>	Air crash Investigations	On Spot	Virtuoso Level
<input type="checkbox"/>	Space Junk Design	On Spot	Virtuoso Level
<input type="checkbox"/>	Remote Sensing-Enabling Pakistan Future	Prepared	Virtuoso Level
Space Creative Writing			
<input type="checkbox"/>	Essay Writing English	On Spot	Abecedarian Level
<input type="checkbox"/>	Essay Writing English	On Spot	Virtuoso Level
<input type="checkbox"/>	Essay Writing Urdu	On Spot	Abecedarian Level
<input type="checkbox"/>	Essay Writing Urdu	On Spot	Virtuoso Level
<input type="checkbox"/>	Story Writing Urdu	On Spot	Abecedarian Level
<input type="checkbox"/>	Story Writing Urdu	On Spot	Virtuoso Level
<input type="checkbox"/>	Story Writing English	On Spot	Abecedarian Level
<input type="checkbox"/>	Story Writing English	On Spot	Virtuoso Level
<input type="checkbox"/>	Space Event Journalism- Urdu	On Spot	Abecedarian Level
<input type="checkbox"/>	Space Event Journalism - Urdu	On Spot	Virtuoso Level
<input type="checkbox"/>	Space Event Journalism- English	On Spot	Abecedarian Level
<input type="checkbox"/>	Space Event Journalism - English	On Spot	Virtuoso Level
<input type="checkbox"/>	Space Slogans- Urdu	On Spot	Abecedarian Level
<input type="checkbox"/>	Space Slogans - English	On Spot	Abecedarian Level
<input type="checkbox"/>	Space Spellathon	On spot	Abecedarian Level
<input type="checkbox"/>	Space Poetry	Prepared	Virtuoso Level
Space Technology Applications			
<input type="checkbox"/>	Aero Modeling	On spot	Virtuoso Level
<input type="checkbox"/>	Glider	On spot	Virtuoso Level
<input type="checkbox"/>	Water Rocket	On spot	Virtuoso Level
<input type="checkbox"/>	Para Eggs Competition	On spot	Virtuoso Level
<input type="checkbox"/>	Boomerang Wings	On spot	Virtuoso Level
<input type="checkbox"/>	Space Balloon Cart Competition	On spot	Virtuoso Level
<input type="checkbox"/>	Space Propeller Car Competition	On spot	Virtuoso Level
<input type="checkbox"/>	Space Model Competition	On spot	Abecedarian Level
<input type="checkbox"/>	Space Model Competition	On spot	Virtuoso Level
<input type="checkbox"/>	Technical Poster Design	On spot	Virtuoso Level
<input type="checkbox"/>	Hot Air Balloon Design	On spot	Virtuoso Level
<input type="checkbox"/>	Pinwheels Design	On spot	Virtuoso Level
<input type="checkbox"/>	Can Sat Workshop		Abecedarian Level
<input type="checkbox"/>	Can Sat Workshop		Virtuoso Level
Space Fine Arts			
<input type="checkbox"/>	Painting	On spot	Abecedarian Level



<input type="checkbox"/>	Painting	On spot	Virtuoso Level
<input type="checkbox"/>	Sketching	On spot	Abecedarian Level
<input type="checkbox"/>	Sketching	On spot	Virtuoso Level
<input type="checkbox"/>	Calligraphy	On spot	Abecedarian Level
<input type="checkbox"/>	Calligraphy	On spot	Virtuoso Level
<input type="checkbox"/>	Wall Graffiti	On spot	Virtuoso Level
<input type="checkbox"/>	Space Characters	On spot	Abecedarian Level
<input type="checkbox"/>	Space Characters	On spot	Virtuoso Level
<input type="checkbox"/>	Mask Designing	On spot	Virtuoso Level
<input type="checkbox"/>	Space Model Making	On spot	Abecedarian Level
<input type="checkbox"/>	Space Model Making	On spot	Virtuoso Level
Space Visual Arts			
<input type="checkbox"/>	Space Videography	Prepared	Virtuoso Level
<input type="checkbox"/>	Space Photography - Earth Selfie	Prepared	Abecedarian Level
<input type="checkbox"/>	Space Photography - Earth Selfie	Prepared	Virtuoso Level
<input type="checkbox"/>	WSW-2016 Selfie	On spot	Abecedarian Level
<input type="checkbox"/>	WSW-2016 Selfie	On spot	Virtuoso Level
<input type="checkbox"/>	Space Philately-Stamps Collection	Prepared	Abecedarian Level
<input type="checkbox"/>	Space Coins - Coins Collection	Prepared	Abecedarian Level
Space Graphics			
<input type="checkbox"/>	Space Souvenir Designing	On spot	Virtuoso Level
<input type="checkbox"/>	e- Poster Designing	On spot	Virtuoso Level
<input type="checkbox"/>	Space Stamp Designing	On spot	Virtuoso Level
<input type="checkbox"/>	Space Webpage Designing	On spot	Virtuoso Level
<input type="checkbox"/>	Space Coins Designing	On spot	Virtuoso Level
<input type="checkbox"/>	Spacesuit Designing	On spot	Virtuoso Level
Space Mathematica			
<input type="checkbox"/>	Escape From Infinity	On spot	Virtuoso Level
<input type="checkbox"/>	Mathematical Hunt	On spot	Virtuoso Level
<input type="checkbox"/>	Mathometer	On spot	Virtuoso Level
Space Entertainment			
<input type="checkbox"/>	Space Ramp	Prepared	Abecedarian Level
<input type="checkbox"/>	Tableau Competition	Prepared	Abecedarian Level
<input type="checkbox"/>	Space Theatre (Drama Competition)	Prepared	Virtuoso Level
<input type="checkbox"/>	E-Gaming-Dota 2	On spot	Virtuoso Level
<input type="checkbox"/>	E-Gaming-Space Strike	On spot	Virtuoso Level
<input type="checkbox"/>	E-Gaming-Rise of Nations	On spot	Virtuoso Level
<input type="checkbox"/>	Space Story Telling (Urdu)	Prepared	Abecedarian Level
<input type="checkbox"/>	Space Story Telling (Urdu)	Prepared	Virtuoso Level
<input type="checkbox"/>	Space Story Telling (English)	Prepared	Abecedarian Level
<input type="checkbox"/>	Space Story Telling (English)	Prepared	Virtuoso Level
Space Entrepreneurship			
<input type="checkbox"/>	Satellite Marketing	On Spot	Virtuoso Level
<input type="checkbox"/>	Space Commercialization	On Spot	Virtuoso Level
Space Awareness			
<input type="checkbox"/>	Space Character Parade	Prepared	Abecedarian Level
<input type="checkbox"/>	Space Character Parade	Prepared	Virtuoso Level



**PARTICIPATION REGISTRATION FORMAT
WORLD SPACE WEEK 2016**

Please provide the names of the participating students for each competition, according to the following format, duly signed and stamped by the head of the institution.

Event / Competition Name: _____

Level (Abecedarian/Virtuoso): _____

Participants Names & their Grade: _____

Registration deadline is Monday, October 10, 2016.

MAILING ADDRESS

Department of Student Affairs
Institute of Space Technology (IST)
1, Islamabad Highway, Islamabad 44000

Email: wsw2016ist@gmail.com

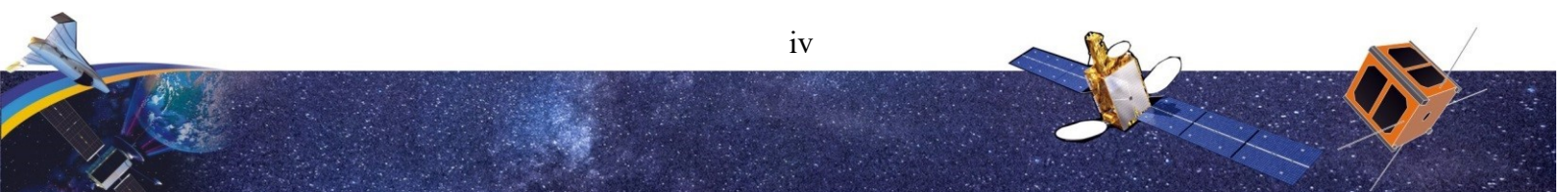
Fax: +92-51-9273310

Website: wswist2016.wixsite.com/wswist2016 | www.ist.edu.pk

Facebook: www.facebook.com/WSW.IST

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WORLD SPACE WEEK 2016

For Registration, Details and Program

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