

### World Space Week 2022 - Institute of Space Technology, Pakistan

S.#	Module Name	Module Format	Class Grade	Duration	Max. Teams Per Institute	Description (Round 1)
<b>A. Space Recitations</b>						
1	Space In Quran: Explanation of Universe	Video Submission	6 - 10 Male	2-3 Minutes	1	Each participant is required to submit a 2-3 minutes recorded video while reciting the verses from Holy Quran related to <b>space science</b> . The video is to be recorded with a suitable camera to ensure video quality. The video should clearly show the face and expressions of the participant along with clearly audible voice.
2	Space In Quran: Explanation of Universe	Video Submission	6 - 10 Female	2-3 Minutes	1	Each participant is required to submit a 2-3 minutes recorded video while reciting the verses from Holy Quran related to <b>space science</b> . The video is to be recorded with a suitable camera to ensure video quality. The video should clearly show the face and expressions of the participant along with clearly audible voice.
3	Space Poetry: Rhythm in Space <i>English</i>	Video & Scanned Document Submission	9 - 12	2-3 Minutes	2	Each participant is required to write an original piece of poetry and then record a 2-3 minutes video while reciting/reading his/her own poetry (Nazm/Ghazal) related to <b>space science</b> . The video is to be recorded with a suitable camera to ensure the video quality. The video should clearly show the face and expressions of the participant along with clearly audible voice. The Participant must upload the video and scanned poetry in a zipped file.
4	Space Poetry: Rhythm in Space <i>Urdu</i>	Video & Scanned Document Submission	9 - 12	2-3 Minutes	2	Each participant is required to write an original piece of poetry and then record a 2-3 minutes video while reciting/reading his/her own poetry (Nazm/Ghazal) related to <b>space science</b> . The video is to be recorded with a suitable camera to ensure the video quality. The video should clearly show the face and expressions of the participant along with clearly audible voice. The Participant must upload the video and scanned poetry in a zipped file.

**World Space Week 2022 - Institute of Space Technology, Pakistan**

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5	Space Declamation: Speak for Space <i>English</i>	Video Submission	8 - 12	3 Minutes	1	Each participant shall record a maximum of 3 minutes video speech on one of the topics mentioned below. The video should clearly show the face and expressions of the participant along with clearly audible voice. Participants can choose one of the following Topics: <b>1. Space Technology: A New Frontier for Sustainable Living</b> <b>2. Space Resources and Planetary Sustainability: Challenges and Opportunities</b> <b>3. The need for Investment in Space Technology for Developing Countries</b>
6	Space Declamation: Speak for Space <i>Urdu</i>	Video Submission	8 - 12	3 Minutes	1	Each participant shall record a maximum of 3 minutes video speech on one of the topics mentioned below. The video should clearly show the face and expressions of the participant along with clearly audible voice. Participants can choose one of the following Topics: ۱ - خلائی ٹیکنالوجی : استحکام حیات کی اک نئی جہت ۲ - خلا پر دسترس : تمام نوع انسانی کا حق ۳ - خلائی ٹیکنالوجی : پائیدار ترقی کا واحد راستہ
7	Story Telling: Space Tales <i>English</i>	Video & Scanned Document Submission	8 - 12	5 Minutes	2	Each participant is required to write an original story and then record a maximum of 5 Minutes video while reciting/reading his/her own story related to <b>Space Science</b> . The video is to be recorded with a suitable camera to ensure video quality. The video should clearly show the face and expressions of the participant along with clearly audible voice. The Participant must upload video along with the scanned story in a zipped file.
8	Story Telling: Space Tales <i>Urdu</i>	Video & Scanned Document Submission	8 - 12	5 Minutes	2	Each participant is required to write an original story and then record a maximum of 5 Minutes video while reciting/reading his/her own story related to <b>Space Science</b> . The video is to be recorded with a suitable camera to ensure video quality. The video should clearly show the face and expressions of the participant along with clearly audible voice. The Participant must upload video along with the scanned story in a zipped file.

**World Space Week 2022 - Institute of Space Technology, Pakistan**

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9	Astrobiography: Space Legends	Power Point Presentation with Voice Over Submission	6 - 8	7 Minutes	2	Participants will be required to submit 10 slides on the biography of a Muslim scientist or researcher related with <b>Space Science and Technology</b> , with voice over, preferably in video format. The presentation must not exceed 7 Minutes. The voiceover should be clearly audible.
10	JWST: Revisualizing the Universe	Power Point Presentation with Voice Over Submission	9-12	7 Minutes	2	Each Participant is required to choose one image from the recently released images taken by James Webb Space Telescope and submit a 7 Minutes power point presentation with voiceover, explaining the image in detail, preferably in video format.
11	Astrepreneurship: Pitching Business Ideas	Power Point Presentation with Voice Over Submission	9 - 12	7 Minutes	2	The participants are expected to present a startup idea based on <b>Space Technology &amp; its Applications</b> . Each participant has to submit a 7 Minutes power point presentation with voiceover, preferably in video format. The ideas may vary from educational startups to technological and commercial startups. The voiceover quality should be audible.

**World Space Week 2022 - Institute of Space Technology, Pakistan**

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<b>B. Space Quiz</b>						
12	Mathematical Quiz: Space Mathematica	Online Quiz (E-portal: <a href="http://ncgsa.org.pk/wsw">ncgsa.org.pk/wsw</a> )	8 - 12	30 Minutes	1	Each participant is required to take an online quiz on the website. The questions will be related to Mathematics, Physics and their application in space science, technology & its applications. Duration of the MCQ's based quiz will be half an hour. Preparatory material is available on the knowledge database link: <a href="https://bit.ly/3eoiDgZ">https://bit.ly/3eoiDgZ</a>
13	Space Technology Quiz: Space Tecathon	Online Quiz (E-portal: <a href="http://ncgsa.org.pk/wsw">ncgsa.org.pk/wsw</a> )	9 - 12	30 Minutes	1	Each participant is required to take an online quiz on the website. The questions will be related to the applications of space technology for achieving UN Sustainable Development Goals. Duration of the MCQ's based quiz will be half an hour. Preparatory material is available on the knowledge database link: <a href="https://bit.ly/3eoiDgZ">https://bit.ly/3eoiDgZ</a>
14	Glossary Learner: Space Concept Builder	Online Quiz (E-portal: <a href="http://ncgsa.org.pk/wsw">ncgsa.org.pk/wsw</a> )	8 - 12	30 Minutes	1	The competition shall be conducted through any/all of the following methods: 1. Participants will have to match the definitions with the relevant terms 2. Participants will have to define the terms 3. Participants will have to write the term best suited for a particular definition Preparatory material is available on the knowledge database link: <a href="https://bit.ly/3eoiDgZ">https://bit.ly/3eoiDgZ</a>
15	Spellathon: Space Vocabulary	Online Quiz (E-portal: <a href="http://ncgsa.org.pk/wsw">ncgsa.org.pk/wsw</a> )	6 - 8	30 Minutes	1	Each participant is required to take an online spelling quiz on the website. Duration of the MCQ's based quiz will be half an hour. Preparatory material is available on the knowledge database link: <a href="https://bit.ly/3eoiDgZ">https://bit.ly/3eoiDgZ</a>
16	Crossword: Space Puzzles	Scanned Document Submission	6 - 8	1 hour	1	Each participant will be required to solve a cross word puzzle. The puzzle will be given at the start of the competition, which may be solved digitally or manually (by printing). A total of 60 minutes shall be provided to the participants to complete and submit the puzzle.

**World Space Week 2022 - Institute of Space Technology, Pakistan**

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<b>C. Space Creative Writing</b>						
17	Essay Writing: Space Composition <i>English</i>	Scanned Document Submission	9 - 12	2 hours	2	Each participant is required to submit a handwritten essay on any one of the topics provided at the start of the competition. The word limit for the essay is 500-600 words. The content of the essay must be original work of the participant, and not plagiarized. A total of 2 hours shall be given to each participant to write and submit the essay. The total time given includes the submission time.
18	Essay Writing: Space Composition <i>Urdu</i>	Scanned Document Submission	9 - 12	2 hours	2	Each participant is required to submit a handwritten essay on any one of the topics provided at the start of the competition. The word limit for the essay is 500-600 words. The content of the essay must be original work of the participant, and not plagiarized. A total of 2 hours shall be given to each participant to write and submit the essay. The total time given includes the submission time.
19	Pictorial Story Writing: Space Fiction <i>English</i>	Scanned Document Submission	6 - 8	2 hours	2	Each participant is required to submit a handwritten story according to the photograph provided at the start of the competition. The word limit for the story is 500-600 words. The content of the story must be original work of the participant, and not plagiarized. A total of 2 hours shall be given to each participant to write and submit the story. The total time given includes the submission time.
20	Pictorial Story Writing: Space Fiction <i>Urdu</i>	Scanned Document Submission	6 - 8	2 hours	2	Each participant is required to submit a handwritten story according to the photograph provided at the start of the competition. The word limit for the story is 500-600 words. The content of the story must be original work of the participant, and not plagiarized. A total of 2 hours shall be given to each participant to write and submit the story. The total time given includes the submission time.
21	Letter to Editor: Space Journalism <i>English</i>	Scanned Document Submission	9 - 12	1 hour	2	Each participant is required to submit a handwritten letter to editor on the topic given at the start of competition. The word limit for the letter is 250-350 words. The content of the letter must be original work of the participant, and not plagiarized. A total of 1 hour shall be given to each participant to write and submit the letter. The total time given includes the submission time.

**World Space Week 2022 - Institute of Space Technology, Pakistan**

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22	Letter to Aliens: Extraterrestrial Communication <i>Urdu</i>	Scanned Document Submission	6 - 8	1 hour	2	Each participant is required to submit a handwritten letter to an alien on the topic given at the start of competition. The word limit for the letter is 250-350 words. The content of the letter must be original work of the participant, and not plagiarized. A total of 1 hour shall be given to each participant to write and submit the letter. The total time given includes the submission time.

**World Space Week 2022 - Institute of Space Technology, Pakistan**

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<b>D. Space Applications</b>						
23	Navigating Google Earth: Exploring Space Heritage	Scanned Document Submission	9 - 12	2 hours	2	Participants will have to mark the location of space heritage sites (latitude-longitude & height) using Google Earth in the stipulated time. The sites for which the coordinates are to be found shall be disclosed 2 hours before the submission deadline. Task may include reaching the sites and exploring the details by given coordinates.
24	Space Environmental Solutions: Remote Sensing Satellite Applications	Power Point Presentation with Voice Over Submission	9 - 12	7 Minutes	2	The participants are expected to present an idea to use Remote Sensing satellites for preferably unique environment/climate /atmosphere applications. Each participant has to submit a 7 Minutes power point presentation with voiceover, preferably in video format. The voice over quality in the presentation must be clearly audible.
25	Zero Gravity Idea Bank: Exploring Gravity	Document Submission	9 - 12	Submission Event	2	Each participant is required to submit an idea for an experiment to be performed in Zero Gravity at International Space station (ISS). The experiment may be brief research or a detailed experiment over a span of days. The submitted file must contain introduction, questions, hypothesis and methods.
26	Image Interpretation: Satellite Image Processing	Document Submission	9 - 12	3 Hours	2	Participants will be required to interpret the information from the satellite images provided at the start of the competition. The information may include land cover, temperature zones and other important features. Total time of 3 hours also includes submission time. Participants are required to submit PDF / Word file.
27	Geocaching: Space Scavenger Hunt	Final Round Event	9 - 12	2 hours	2	Each Participant will be given a set of clues and position coordinates. Participants will have to look for the clues and record the coordinates using their cell phone GPS. Participants will also have to locate points in IST from the coordinates provided at the start of the competition
28	Pictorial Geotagging: Mapping Stories	Map Package and PowerPoint with voiceover submission	9 - 12	5 Minutes	2	Participants will create a Story Map using Google Earth. The story will be of a one day visit by the participants to the nearby places of their residential area. An detailed document regarding the module will be provided 24 hours before the Event. Participants will present their story map in a 5 minute PowerPoint presentation with voice over preferably in Video Format.

**World Space Week 2022 - Institute of Space Technology, Pakistan**

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<b>E.</b>	<b>Space Innovation</b>					
29	CUBESAT Design: Nanosatellite Applications	Power Point Presentation with Voice Over Submission	9 - 12	7 Minutes	2	The participants are required to present the design particulars of any launched CubeSat mission with its details and applications (e.g., iCube - 1). Each participant has to submit a 7 Minutes power point presentation with voiceover, preferably in video format. The voice over quality in the presentation must be clearly audible.
30	Shooting the Night Sky: Surfing Deep Space	Document Submission	9 - 12	2 hours	2	Participants will be provided with certain position coordinates and will be required to submit a document mentioning the stars visible from the given position. Stellarium or other similar software may be used for finding the visible stars. Submission must be done in word/pdf format. The coordinates shall be provided 2 hours before the submission deadline.
31	Virtual Astronomy: Exploring Space	Document Submission	9 - 12	24 Hours	2	Each Participant will be required to perform certain activities using the Virtual Astronomy software CLEA such as finding the parallax angle or finding the speed of light through Jupiter's moon etc. Details of the activities will be shared with the students 24 hours before the event. Participants are required to perform the activities and fill the answers required in the Document.
32	Space Crash Inquiries: Investigating Space Tragedies	Document Submission	9 - 12	3 hours	2	Participants will be provided with the details of a space crash incident 3 hours before the submission deadline. Participants are required to submit handwritten analysis of the potential problem which caused the crash. Participants may read about various space tragedies on the internet for a better overall understanding about space crashes.
33	Aviation Disasters: Mayday Calls	Document Submission	9 - 12	3 hours	2	Participants will be provided with the details of an air crash incident 3 hours before the submission deadline. Participants are required to submit handwritten analysis of the potential problem which caused the crash. Participants may read about various air tragedies on the internet for a better overall understanding about air crashes.



**World Space Week 2022 - Institute of Space Technology, Pakistan**

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<b>F. Space Technology Demonstration</b>						
34	Aqua Rockets: Exploring Rocket Science	Photograph & Video Demonstration Submission	9 - 12	5 Minutes	1 Team of Two students	Participants are required to make water rockets using pet bottles of 1.5 Liter in their schools and are required to submit a Power Point Presentation on the development of Water Rockets explaining its different components and their functionality with voice over, preferably in video format. Each participant is required to submit a video of 5 minutes, along with 3 photographs of the working model.
35	Pin Wheel Design: Aeronautical Swirl	Photograph & Video Demonstration Submission	6 - 8	5 Minutes	1 Team of Two students	Each participant is required to submit a video of 5 min while making a pin wheel. The video must contain some steps while making the pin wheel to ensure that the participant has him/herself built the prototype. The video must also cover full period of swirl of the wheel. Up to three (3) photographs of the completed prototype shall also be submitted, all in the zip file.
36	Balloon Cart: Experimenting Thrust	Photograph & Video Demonstration Submission	9 - 12	5 Minutes	1 Team of Two students	Each participant is required to submit a video of 5 min while making a balloon cart. The video must contain some steps while making the cart to ensure that the participant has him/herself built the prototype. The video must also cover full period of movement of the cart. Up to three (3) photographs of the completed prototype shall also be submitted, all in the zip file.
37	Glider Flying: Reinventing Flight	Photograph & Video Demonstration Submission	9 - 12	5 Minutes	1 Team of Two students	Each participant is required to submit a video of 5 min while making a balsa wood Glider. The video must contain some steps while making the Glider to ensure that the participant has him/herself built the prototype. The video must also cover full period of flight of the prototype. Up to three (3) photographs of the completed prototype shall also be submitted, all in the zip file.
38	Drag Chute: Safe Landing Design	Photograph & Video Demonstration Submission	6 - 8	5 Minutes	1 Team of Two students	Participants will have to design a safe landing mechanism using parachute. Each participant is required to submit a video of 5 min while making prototype. The video must contain some steps while making the prototype to ensure that the participant has him/herself built the prototype. Safe landing test must be from a tentative height of 50 feet, and test must be done using eggs. The video must cover full period of drop of the prototype. Up to three (3) photographs of the completed prototype shall also be submitted.

**World Space Week 2022 - Institute of Space Technology, Pakistan**

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39	Seed Paper Making: Gardening in Space	Photograph & Video Demonstration Submission	6 - 8	5 Minutes	1 Team of Two students	Each Participant is required to make a plant able seed paper from used papers. Participants are required to make cuts outs of the seed paper in the from of greeting cards, shaped into a space object (e.g., Space Rockets, Satellites etc.). Participants are required to submit at least three (3) pictures of the card. Card must also have a description on which seeds have been used for plantation and why.
40	Microgravity Pens: Chirography in Space	Video Demonstration Submission	6 - 8	5 Minutes	2	Participants are required to turn conventional Ball points into Antigravity Space Pens using recyclable materials and submit a video of writing on a paper facing downwards. Participants are required to show the making of the Pen and then show a comparison of traditional pen and the antigravity pen in the video. Up to three (3) photographs of the completed prototype shall also be submitted.

**World Space Week 2022 - Institute of Space Technology, Pakistan**

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<b>G. Space Models &amp; Collectables</b>						
41	Space Projects: Space Prototyping	Photograph & Video Demonstration Submission	6 - 8	5 Minutes	1 Team of Two students	Participants are required to explain any science project they have worked on/completed, related to concept of <b>Space Technology</b> , along with demonstration of its working. Participants are required to submit a 5 Minutes video, explaining all the components, along with its applications and utility. The audio quality must be audible. Up to three (3) photographs of the project shall also be submitted.
42	Space Projects: Space Prototyping	Photograph & Video Demonstration Submission	9 - 12	5 Minutes	1 Team of Two students	Participants are required to explain any science project they have worked on/completed, related to concept of <b>Space Technology</b> , along with demonstration of its working. Participants are required to submit a 5 Minutes video, explaining all the components, along with its applications and utility. The audio quality must be audible. Up to three (3) photographs of the project shall also be submitted.
43	Astrolabe Making: Modeling Universe for Navigation	Photograph & Video Demonstration Submission	6-8	5 Minutes	1 Team of Two students	Participants are required make an Astrolabe by using papers, cardboards and easily available low cost material, they will be required to demonstrate its working. Participants are required to submit a 5 Minutes video, explaining all the components, along with its applications and utility. The audio quality must be audible. Up to three (3) photographs of the astrolabe shall also be submitted.
44	Telescope Making: Observing Universe	Photograph & Video Demonstration Submission	6-8	5 Minutes	1 Team of Two students	Participants will make a 3D Model of JWST or Hubble Space Telescope using low cost material. Participants are required to submit a 5 Minutes video, explaining all the components, along with its applications and utility. The audio quality must be audible. Up to three (3) photographs of the model shall also be submitted.
45	Space Junk: Modeling the Space Debris	Photograph & Video Demonstration Submission	6-8	5 Minutes	1 Team of Two students	Each Participant is required to make a model that shows the Space Pollution / Debris around earth in different orbits. Participants are required to submit a 5 Minutes video, explaining the model in detail. Up to three (3) photographs of the model shall also be submitted.

### World Space Week 2022 - Institute of Space Technology, Pakistan

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46	Junk Design: Space Debris Management	Photograph & Video Demonstration Submission	6 - 8	5 Minutes	2	Each participant is required to submit a video of 5 minutes while making a space model / replica from junk material. The model maybe a space related working prototype, vehicle, rover etc. The video must contain some steps while making the model to ensure that the participant has him/herself built the prototype. If the model is working prototype, the video must also cover the working aspects (Movement, Launch etc.). In addition to this, up to three (3) photographs of the completed model shall also be submitted.
47	Junk Design: Space Debris Management	Photograph & Video Demonstration Submission	9 - 12	5 Minutes	2	Each participant is required to submit a video of 5 minutes while making a space model / replica from junk material. The model maybe a space related working prototype, vehicle, rover etc. The video must contain some steps while making the model to ensure that the participant has him/herself built the prototype. If the model is working prototype, the video must also cover the working aspects (Movement, Launch etc.). In addition to this, up to three (3) photographs of the completed model shall also be submitted.
48	Space Philately: Space Commemorative Postage	Picture Submission	6 - 8	Submission Event	2	Participants will submit pictures of commemorative Space Postage Stamps (15-20) pasted on black chart paper, along with short description. Participants may decorate the chart paper as per their creativity. Up to three (3) photographs of the chart shall be submitted.
49	Space Coinage: Space Memorials	Picture Submission	6 - 8	Submission Event	2	Participants will submit pictures of commemorative Space Coins (15-20) pasted on black chart paper, along with short description. Participants may decorate the chart paper as per their creativity. Up to three (3) photographs of the chart shall be submitted.
50	Muslim Space Scientists: The Science Founders	Picture Submission	9 - 12	Submission Event	2	Participants will be required to collect the photographs of ancients Muslim scientists, who contributed to the fields of <b>Space Science and Technology</b> . They will be required to paste them on chart papers and write their short descriptions / bio of the scientists. Participants may decorate the chart paper as per their creativity. Up to three (3) photographs of the chart shall be submitted.

**World Space Week 2022 - Institute of Space Technology, Pakistan**

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<b>H. Space Fine Arts</b>						
51	Souvenir Designing: Space Mementos	Picture & Source Files Submission	9 - 12	3 hours	2	Each participant is required to design a shield / souvenir on Photoshop/illustrator. Theme and requirements will be provided at the start of competition. The original source file must be submitted along with the jpeg file, with in 3 hours of the competition. The designed souvenir should be original work of the participant and not copied/plagiarized by any means. Total time of the competition includes submission time.
52	Painting: Colors in Space	Scanned Picture Submission	6 - 8	3 hours	1	Each participant will have to make a painting on the theme ' <b>Space &amp; Sustainability</b> '. The painting shall be done during an online zoom session. The scanned copy/ photographs of the painting must be submitted with in 3 hours of the competition. Up to three (3) photographs of the final product, taken from different views, shall be submitted without any filters or editing. Any painting material can be used, while a scholar sheet of the size 22"x30" or 18"x24" maybe used.
53	Painting: Colors in Space	Scanned Picture Submission	9 - 12	3 hours	1	Each participant will have to make a painting on the theme ' <b>Space &amp; Sustainability</b> '. The painting shall be done during an online zoom session. The scanned copy/ photographs of the painting must be submitted with in 3 hours of the competition. Up to three (3) photographs of the final product, taken from different views, shall be submitted without any filters or editing. Any painting material can be used, while a scholar sheet of the size 22"x30" or 18"x24" maybe used.
54	Sketching: Space Outlines	Scanned Picture Submission	9 - 12	3 hours	1	Each participant will have to make a sketch on the theme ' <b>Space &amp; Sustainability</b> '. The sketching shall be done during an online zoom session. The scanned copy/ photographs of the sketch must be submitted with in 3 hours of the competition. Up to three (3) photographs of the final product, taken from different views, shall be submitted without any filters or editing. Any sketching material can be used, while a scholar sheet of the size 22"x30" or 18"x24" maybe used.

**World Space Week 2022 - Institute of Space Technology, Pakistan**

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55	Calligraphy: Space Scriptures	Scanned Picture Submission	9 - 12	3 hours	1	Each participant will have to submit a calligraphy of verses of the Holy Quran related with <b>Space Science</b> . The calligraphy shall be done during an online zoom session. The scanned copy/ photographs of the calligraphy must be submitted within 3 hours of the competition. Participants must submit the original photograph without any filters and digital editing. Any painting material can be used, while a scholar sheet of the size 22"x30" or 18"x24" may be used.
56	Alien Sketch: Space Caricature	Scanned Picture Submission	6 - 8	3 hours	1	Each participant is required to sketch a space caricature/alien on an A4 sheet of paper using pencil and color as per the choice of the participant. Sketches shall be done during an online zoom session. The scanned copy of the caricature must be submitted within 3 hours of the competition. Up to three (3) photographs of the final product, taken from different views, shall be submitted without any filters or editing.
57	Masks Making: Space Masquerade	Scanned Picture Submission	6 - 8	3 hours	1	Each participant is required to make a space character-based mask using chart paper. Mask making shall be done during an online zoom session. The final mask must be submitted within 3 hours of the competition. Up to three (3) photographs of the final product, taken from different views, shall be submitted without any filters or editing.

**World Space Week 2022 - Institute of Space Technology, Pakistan**

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<b>I. Space Performing Arts</b>						
58	WSW 2022 Selfie: Collecting Memories	Photograph Submission	6 - 8	Submission Event	1	Each participant will have to submit 3 group photographs taken as a selfies. The selfie must be of the whole school group participating in WSW 2022 - IST, such that the participants are involved in or engaged in a WSW related activity, in school.
59	WSW 2022 Selfie: Collecting Memories	Photograph Submission	9 - 12	Submission Event	1	Each participant will have to submit 3 group photographs taken as a selfies. The selfie must be of the whole school group participating in WSW 2022 - IST, such that the participants are involved in or engaged in a WSW related activity, in school.
60	One Man Show: Dramatizing Space <i>English/Urdu</i>	Script & Video Submission	9 - 12	5 Minutes	2	Participants will be required to submit a 5 minutes video of Drama performed by Only One Character/Person with a theme related to <b>Space Science &amp; Technology</b> . The participants are also required to submit the script of the performance.
61	Space Theatre: Role Playing in Space	Script & Video Submission	9 - 12	Submission Event	1 team of max. 8 members	Participants are required to submit a handwritten theatre script on the theme of <b>Space Science, Technology and its Applications</b> . The play must not be more than 15 minutes Content submitted must be original work of the participating team and not plagiarized. The team is also required to perform the theatre in their school premises and submit the recording of performance. In the final round team of students will be called to perform the theatre in IST. The play must be designed as a theatre, with minimum props and light effects.
62	WSW Vlog: Broadcasting Space	Video Submission	9 - 12	5 Minutes	2	Participants are required to make a Vlog of WSW 2022 preparation and activities at their schools. Participants shall cover all the competitions their school is participating in, and the maximum duration of the video shall be not more than 5 minutes.

**World Space Week 2022 - Institute of Space Technology, Pakistan**

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<b>J.</b>	<b>Space Architectures</b>					
63	Space Park Design: Space Recreation	Power Point Presentation with Voice Over Submission	9 - 12	7 Minutes	2	Each participant is required to present a conceptual design along with the detailed requirements to build a Space Park in Pakistan. The participants will submit a 7 Minutes power point presentation with voiceover. The design must be done with a ground area of 10 Kanals. Participants may refer to the internet to study and gather knowledge about Space Parks worldwide. The voiceover quality should be audible.
64	Planetarium Design: Exploring the Dome	Power Point Presentation with Voice Over Submission	9 - 12	7 Minutes	2	Each participant is required to present a plan to build a Planetarium in Pakistan. The participants will submit a 7 Minutes power point presentation with voiceover, preferably with voice over. The design of planetarium must have the sitting capacity of 50-75 persons, at one time. Participants may refer to the internet to study and gather knowledge about Planetariums worldwide. The voiceover quality should be audible.
65	Observatory Design: Designing Gateway to Space	Power Point Presentation with Voice Over Submission	9 - 12	7 Minutes	2	Each participant is required to present a plan to build an Observatory in Pakistan. The participants will submit a 7 Minutes power point presentation with voiceover. The observatory shall have the capacity to house a telescope of 16" to 18" in diameter. Participants may refer to the internet to study and gather knowledge about Observatories worldwide. The voiceover quality should be audible.



### World Space Week 2022 - Institute of Space Technology, Pakistan

S.#	Module Name	Module Format	Class Grade	Duration	Max. Teams Per Institute	Description (Round 1)
<b>K. Space for UN Sustainable Development Goals</b>						
66	Space Solutions: Achieving UN Sustainable Development Goals (SDGs)	Power Point Presentation with Voice Over Submission	9 - 12	7 Minutes	2	The participants are expected to present an idea for achieving UN Sustainable Development Goals (SDGs) through <b>space science, technology and its applications</b> . Each participant has to submit a 7 Minutes power point presentation with voiceover, preferably in video format. The voiceover quality should be audible.
67	SDG Wheel Making: Realizing the Prosperous Future	Video Demonstration Submission	6 - 8	5 Minutes	2	Participants are required to make the UN SDG Wheel using the official icons, with the help of cardboard and papers. Participants shall submit a 5 minutes video while making the model and then explaining all the SDGs briefly. The submissions can be designed / decorated as per the creativity of the participants.
68	Conserving Climate: Environmental Detectives	Photograph and Scanned Document Submission	9 - 12	Submission Event	2	Participants will submit a photograph depicting an environmental violation, along with a report on its effects on our environment. Participants are required to take a photo during the days of the event and submit a timestamped Photograph, in a zipped file.
69	Disaster Management: Inspecting Temporal Change	Map Package and PowerPoint with voiceover submission	9 - 12	5 Minutes	2	Participants will use Google Earth's Historical Imagery tool to map out temporal changes in an area of interest (e.g., deforestation, earthquake, floods etc.) Any region of Pakistan maybe taken as the area of interest for the competition, with the time-lapse of last 20 years, to show a comparison. Each participant has to submit a 5 Minutes power point presentation with voiceover explaining the work done, preferably in video format.
70	Model UNOOSA: Space Dialogue	Document Submission	9 - 12	24 Hours	2	Participants are required to study about the United Nations Office of Outer Space Affairs, and its role in global space affairs. A model assembly session will be conducted to discuss the issues related to theme of "Space & Sustainability". Each participant will be allotted a country to represent, 24 hours before the submission deadline. In the first round of competition, participants will be required to submit the brief note on the agenda (points of discussion) of the session. Agenda will be shared with the participants 24 hours before the submission deadline. The competition will conclude with the debates on campus like an assembly session in the presence of a chair.

**World Space Week 2022 - Institute of Space Technology, Pakistan**

S.#	Module Name	Module Format	Class Grade	Duration	Max. Teams Per Institute	Description (Round 1)
<b>Space Life</b>						
71	Space Recipes: The Space Chefs	Video & Submission	8 - 12	7 Minutes	2	Each Participant will compile a list of the food items that are available on the International Space Station (ISS). Participants are also required to make a food recipe from those items that can be cooked on the ISS, using the resources available on the station. Participants shall submit a 7 minutes PowerPoint presentation with voiceover, explaining all items, and recipe.
72	Sports in Space: Designing Space Olympics	Power Point Presentation with Voice Over Submission	9 - 12	7 Minutes	2	The participants has to submit a 7 Minutes power point presentation with voiceover, preferably in video format to propose a plan for any sport to be played in space, along with the rules and regulations of the sport. Participants may refer to the internet to study and gather knowledge about different sports and how they can be implemented in space environment. The idea of the sport may include some fictional element, but considering the space environment.
73	Space Settlement: Colonizing Space	Power Point Presentation with Voice Over Submission	9 - 12	7 Minutes	2	Each participant has to submit a 7 minutes power point presentation with voiceover, preferably in video format on the idea to colonize the given planet. A detailed 'Request for Proposal' (RFP) containing the requirements of the colony to be designed shall be shared with the participants 24 hours before the submission deadline. Participants may refer to the internet to study and gather knowledge about planets and colonization concepts.
74	Visualizing Space Environment: Living in Space	Power Point Presentation with Voice Over Submission	9 - 12	7 Minutes	2	The participants are required to propose solutions to the any 5 problems faced to human life / sustainability in space environment. Each participant is required to submit a 7 minutes Power Point Presentation with voiceover, preferably in video format. The problems will be disclosed 24 hours before the submission deadline. The voiceover quality of the video should be audible.
75	Space Farming: Making a Greenhouse in Sky	Power Point Presentation with Voice Over Submission	9 - 12	7 Minutes	2	Participants are required to study the effects of microgravity on plants and propose a greenhouse with at least 5 plants based on importance and survivability in space. Each participant is required to submit a 7 Minutes Power Point Presentation with voiceover, preferably in video format. Participants shall give references to the existing experiments on the ISS as well.

**World Space Week 2022 - Institute of Space Technology, Pakistan**

S.#	Module Name	Module Format	Class Grade	Duration	Max. Teams Per Institute	Description (Round 1)
<b>M.</b>	<b>Series of Webinars, Talks and Lecture (Online &amp; Hybrid)</b>					
*	Series of Webinars, Talks, Lectures and Trainings will be conducted during the month of October for students as well as teachers. A list will be shared separately.					
<b>Notes</b>						
1	The number of teams called for the final round (on IST campus) will depend upon the number of team participating in the event, and the quality of work being					
2	All submissions will be on our website: <a href="http://www.ncgsa.org.pk/wsw">www.ncgsa.org.pk/wsw</a> , and topics will be announced through Facebook, WhatsApp groups and our website.					
3	The team will comprise of only 1 student, unless stated otherwise in the column "Max. Teams per Institute"					
4	The organizing team of NCGSA, IST reserves the rights to change the rules & regulations of the competitions (if deemed necessary to ensure the competitiveness					
5	Category wise workshops will be conducted to explain the events and their execution in detail.					
<b>Contact Us</b>						
Phone: 051-907-5864 / 5865 / 5799						