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A.						**Space Recitations**
1	Space in Quran: Explanation of Universe (Male)	Video Submission	6-8	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 Space Science & Technology. 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 (Female)	Video Submission	6-8	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 Space Science & Technology. 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 Declamation: Speak for Space *English*	Video Submission	9-12	3-5 minutes	1	Each participant shall record a 3-5 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. **1. Investing in Space: Opportunities and Challenges for Entrepreneurs.** **2. Space Tech Spin-offs: How Entrepreneurial Ventures Benefit Earth** **3. From Garage to Galactic: Success Stories of Space Startups**

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4	Space Declamation: Speak for Space *Urdu*	Video Submission	9-12	3-5 minutes	1	Each participant shall record a 3-5 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 1. خلائی نجی سرمایہ کاری: اِمکانات اور اِفادیت. 2. خلائی سِیاحت: خوَاب سے حقیقت کا سفر. 3. خلائی تَسخیر : نوعِ انسانی کی بقا کی ضامِن
5	Story Telling: Space Tales *English*	Video and Scanned Document Submission	9-12	3-5 minutes Submission	1	Each participant is required to write an original story and then record a 3-5 Minutes video while reciting/reading his/her own story related to Space Science & Technology. 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.
6	Story Telling: Space Tales *Urdu*	Video and Scanned Document Submission	9-12	3-5 minutes	1	Each participant is required to write an original story and then record a 3-5 Minutes video while reciting/reading his/her own story related to Space Science & Technology. 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.
7	Astrobiography: Space Legends	Power Point Presentation with Voice Over Submission	6-8	5 minutes	Team of 2 members	Each Participant is required to develop a 10-15 Slides power point presentation about a Muslim scientist related with Engineering / Space Science and Technology. The Presentation should be recorded with voice over and preferably in video format. The presentation must not exceed 5 Minutes. The voiceover should be clearly audible. The Participant must upload the Presentation and Video in a Zipped File.

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8	JWST: Revisualizing the Universe	Power Point Presentation with Voice Over Submission	9-12	5 minutes	Team of 2 members	Each Participant is required to choose one image from the recently released images taken by James Webb Space Telescope and submit a 5 Minutes power point presentation with voiceover, explaining the image in detail, preferably in video format.

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B.						**Space Quiz**
9	Mathematical Quiz: Space Mathematica	Online Quiz *(ncgsa.org.pk/wsw)*	9-12	45 minutes	1	Each participant is required to appear in an online quiz on the website on the Event Date. The questions will be related to Mathematics, Physics and their application in space science, technology & its applications according to the Curriculum of Grade 9-12 / O-levels.
10	Space Technology Quiz: Space Tecathon	Online Quiz *(ncgsa.org.pk/wsw)*	9-12	45 minutes	1	Each participant is required to appear in an online quiz on the website on the Event Date. The questions will be related to the applications of space technology in the curriculum of Grade 9-12/O-levels
11	Space Glossary: Space Concept Builder	Online Quiz *(ncgsa.org.pk/wsw)*	9-12	45 minutes	1	Each participant is required to appear in an online quiz on the website on the Event Date. The competition will be based on the Terms/Definitions related with Space Science, Technology & its Applications.
12	Spellathon: Space Vocabulary	Online Quiz *(ncgsa.org.pk/wsw)*	9-12	45 minutes	1	Each participant is required to take an online spelling quiz on the website on the Event Date. Preparatory material is available on the knowledge database link: ncgsa.org.pk/wsw
13	Space Timeline: Time Travel	Online Quiz *(ncgsa.org.pk/wsw)*	9-12	45 minutes	1	Each participant is required to take an online quiz on the website. The quiz will be focused on the Launch dates of Major Space Missions from 1957 - 2023.
14	Crossword: Space Puzzles	Scanned Document Submission	6-8	60 minutes	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). The Participant has to upload the Scanned Solution.

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C.					Space Creative Writing	
15	Essay Writing: Space Composition *English*	Scanned Document Submission	9-12	2 hrs.	1	Each participant is required to submit a handwritten essay on any one of the topics provided at the start of the Competition on Event Date 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. The total time given includes the submission time. Topics will be related with Space Science & Technology.
16	Essay Writing: Space Composition *Urdu*	Scanned Document Submission	9-12	2 hrs.	1	Each participant is required to submit a handwritten essay on any one of the topics provided at the start of the competition on the Event Date. 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. The total time given includes the submission time. Topics will be related with Space Science & Technology.
17	Pictorial Story Writing: Space Fiction *English*	Scanned Document Submission	6-8	2 hrs.	1	Each participant is required to submit a handwritten story on the photograph provided at the start of the competition on the Event Date. 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. The total time given includes the submission time.

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18	Pictorial Story Writing: Space Fiction *Urdu*	Scanned Document Submission	6-8	2 hrs.	1	Each participant is required to submit a handwritten story on the photograph provided at the start of the competition on the Event Date. 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. The total time given includes the submission time.
19	Letter to Editor: Space Journalism *English*	Scanned Document Submission	9-12	1 hr.	1	Each participant is required to submit a handwritten letter to editor on the topic given at the start of competition on the Event Date. 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. The total time given includes the submission time.
20	Review Writing: Cine Space *English*	Scanned Document Submission	9-12	24 hrs.	1	Each participant is required to submit a handwritten review of a movie related to space science. The name of the movie shall be shared with the participants 24 hours before the submission deadline. The word limit for the review is 500 - 600 words. The content of the review must not be plagiarized and must be the original work of the participant.
21	Space Blogging: Non-Fictional Article *English*	Scanned Document Submission	9-12	2 hrs.	1	Participants are required to submit a blog on a topic provided at the start of the competition on the Event Date. The blog must not exceed 350 - 500 words. Content submitted must be original work of the participant and not plagiarized. Please note that the total time given includes the submission time
22	Letter to Aliens: Extraterrestrial Communication *English*	Scanned Document Submission	6-8	1 hr.	1	Each participant is required to submit a handwritten letter to an alien on the topic given at the start of competition on the Event Date. 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 in jpeg/pdf format. The total time given includes the submission time.

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23	Letter to Aliens: Extraterrestrial Communication *Urdu*	Scanned Document Submission	6-8	1 hr.	1	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 in jpeg/pdf format. The total time given includes the submission time.

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D.						**Space Applications**
24	Navigating Google Earth: Exploring Space Heritage	Scanned Document Submission	9-12	2 hrs.	Team of 2 members	Participants are required to submit a report in the form of a word/pdf document. 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.
25	Space Environmental Solutions: Remote Sensing Satellite Applications	Power Point Presentation with Voice Over Submission	9-12	8-10 minutes	Team of 2 members	The participants are expected to present a new idea to use Remote Sensing satellites for preferably unique environment/climate /atmosphere applications. Each participant has to submit 8-10 minutes power point presentation with voiceover, preferably in video format.
26	Zero Gravity Idea Bank: Exploring Gravity	Document Submission	9-12	Submission Event	Team of 2 members	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.
27	Image Interpretation: Satellite Image Processing	Document Submission	9-12	90 minutes	Team of 2 members	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 90 minutes also includes submission time. Participants are required to submit PDF / Word file.

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28	Geocaching: Space Scavenger Hunt	No Preliminary Round Final Round Event	9-12	2 hrs.	Team of 2 members	Each Participant will be given a set of clues from the starting position in IST. Participants will have to look for the clues and record the locations. The Scavenger hunt will involve a series of different locations leading to a common final location with only one clue
29	Disaster Management: Inspecting Temporal Change	Map Package and Power Point with voiceover Submission	9-12	5 minutes	Team of 2 members	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.
30	Pictorial Geotagging: Mapping Stories	Map Package and Power Point with voiceover Submission	9-12	5 minutes Submission	Team of 2 members	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. A 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.

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E.						**Space Technology Demonstration**
31	CubeSat Design: Nanosatellite Applications	Power Point Presentation with Voice Over Submission	9-12	8-10 minutes	Team of 2 members	The participants are required to present the design particulars of any launched CubeSat mission with its subsystems details and applications. Each participant has to submit a 8-10 Minutes power point presentation with voiceover, preferably in video format.
32	CanSat Design: Student Satellite Applications	Power Point Presentation with Voice Over Submission	9-12	8-10 minutes	Team of 2 members	The participants are required to present the design particulars of any launched CanSat mission with its subsystem details and applications. Each participant has to submit a 8-10 Minutes power point presentation with voiceover, preferably in video format.
33	Shooting the Night Sky: Surfing Deep Space	Document Submission	9-12	2 hrs.	Team of 2 members	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.
34	Space Crash Inquiries: Investigating Space Tragedies	Document Submission	9-12	3 hrs.	1	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 in word/pdf file. Participants may read about various space tragedies on the internet for a better overall understanding about space crashes.

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35	Lunar Base Design: Moon Settlement	Power Point Presentation with Voice Over Submission	9-12	6-8 minutes	1	Participants will develop and submit a 6-8 min presentation with voice over on designing a sustainable habitat on the Moon. They may include factors like life support systems, energy sources, waste management, and potential economic activities that could be carried out on the lunar surface.
36	Aqua Rockets: Exploring Rocket Science	Photography and Video Demonstration Submission	9-12	3-5 minutes	Team of 2 members	The Team is required to submit a video of 3-5 minutes along with 3 Photographs in a Zip folder while making water rockets using pet bottles of 1.5 Liter. The video shall contain development of Water Rockets explaining its different components and their functionality.
37	Pin Wheel Design: Aeronautical Swirl	Photography and Video Demonstration Submission	6-8	3-5 minutes	Team of 2 members	The Team is required to submit a video of 3-5 minutes along with 3 Photographs in a Zip folder 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.
38	Balloon Cart: Experimenting Thrust	Photography and Video Demonstration Submission	9-12	3-5 minutes	Team of 2 members	The Team is required to submit a video of 3-5 min and 3 photographs in a Zip folder 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.

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39	Glider Flying: Reinventing Flight	Photography and Video Demonstration Submission	9-12	3-5 minutes	Team of 2 members	The Team is required to submit a video of 3-5 min and 3 Photographs in Zip Folder 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.
40	Drag Chute: Safe Landing Design	Photography and Video Demonstration Submission	9-12	3-5 minutes	Team of 2 members	The Team is required to submit a video of 3-5 minutes and 3 Photographs in a Zip Folder while making prototype to design a safe landing mechanism using parachute. 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.
41	Microgravity Pens: Chirography in Space	Photography and Video Demonstration Submission	6-8	3-5 minutes	Team of 2 members	The Team is required to turn conventional Ball points into Antigravity Space Pens using recyclable materials and submit a 3-5 minute video and 3 Photographs in a Zip Folder 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.

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F.						**Space Models & Collectibles**
42	Space Projects: Space Prototyping	Photography and Video Demonstration Submission	6-8	2-3 minutes	Team of 2 members	The Team is required to explain any science project they have worked on/completed, related to concept of Space Technology, along with demonstration of its working. Participants are required to submit a 2-3 Minutes video and 3 Photographs in a Zip Folder, explaining all the components, along with its Principle and Applications
43	Space Projects: Space Prototyping	Photography and Video Demonstration Submission	9-12	2-3 minutes	Team of 2 members	The Team is required to explain any science project they have worked on/completed, related to concept of Space Technology, along with demonstration of its working. Participants are required to submit a 2-3 Minutes video and 3 Photographs in a Zip Folder, explaining all the components, along with its Principle and Applications
44	Astrolabe Making: Stellar Navigation	Photography and Video Demonstration Submission	6-8	2-3 minutes	Team of 2 members	The Team is required make an Astrolabe by using papers, cardboards and easily available low cost material. Participants are required to submit a 2-3 Minutes video and 3 Photographs in a Zip Folder, explaining all the components, along with its Principle and Applications
45	Telescope Making: Observing Universe	Photography and Video Demonstration Submission	6-8	2-3 minutes	Team of 2 members	The Team is required to make a 3D Model of JWST or Hubble Space Telescope using low cost material. Participants are required to submit a 2-3 Minutes video and 3 Photographs in a Zip Folder, explaining all the components, along with its Principle and Applications

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46	Spacesuit Design: Futuristic Challenge	Photograph and Document Submission	9-12	2 hrs.	1	The Team is required to design a futuristic spacesuit on Adobe Photoshop, Illustrator, MS Paint, CorelDraw or Canva. The theme will be provided at the start of the competition. The original source file or Editing Link (Canva) must be submitted along with the jpeg file, not more than 2 hours after the event starts. The design must be original work of the participant and not plagiarized. Total time of the competition includes submission time
47	Greetings Card Design: Hello Universe	Photograph and Document Submission	9-12	2 hrs.	1	Each participant is required to design a Greetings Card (6 x 8 inches) on Photoshop/Illustrator. Theme will be provided at the start of competition. The original source file must be submitted along with the jpeg file, not more than 2 hours after the event starts. The designed Greetings Card should be original work of the participant and not copied/plagiarized by any means. The total time of the module includes the submission time.
48	Poster Design: Digitizing Space	Photograph and Document Submission	9-12	2 hrs.	1	Each participant is required to design a Poster (24 x 36 inches) on Photoshop/Illustrator. Theme will be provided at the start of competition. The original source file must be submitted along with the jpeg file, not more than 2 hours after the event starts. The designed Poster should be original work of the participant and not copied/plagiarized by any means. The total time of the module includes the submission time.

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G.						**Space Fine Arts**
49	Souvenir Designing: Space Mementos	Photograph and Document Submission	9-12	3 hrs.	1	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, within 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.
50	Painting: Colors in Space	Scanned Photograph Submission	6-8	3 hrs.	1	Each participant will have to make a painting on the theme that will be provided at the start of the Event. The painting shall be done during an online zoom session. The scanned copy/photographs of the painting must be submitted within 3 hours of the competition. The Participant shall submit Three (3) photographs of the product, taken at start , middle and end of Production. Any painting material can be used, while a scholar sheet of the size 22"x30" or 18"x24" maybe used.
51	Painting: Colors in Space	Scanned Photograph Submission	9-12	3 hrs.	1	Each participant will have to make a painting on the theme that will be provided at the start of the Event. The painting shall be done during an online zoom session. The scanned copy/photographs of the painting must be submitted within 3 hours of the competition. The Participant shall submit Three (3) photographs of the product, taken at start, middle and end of Production. Any painting material can be used, while a scholar sheet of the size 22"x30" or 18"x24" maybe used.

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52	Sketching: Space Outlines	Scanned Photograph Submission	9-12	3 hrs.	1	Each participant will have to make a sketch on the theme that will be provided at the start of the Event. The sketching shall be done during an online zoom session. The scanned copy/photographs of the sketch must be submitted within 3 hours of the competition. The Participant shall submit Three (3) photographs of the product, taken at start, middle and end of Production. Any sketching material can be used, while a scholar sheet of the size 22"x30" or 18"x24" maybe used.
53	Calligraphy: Space Scriptures	Scanned Photograph Submission	9-12	3 hrs.	1	Each participant will have to submit a calligraphy of verses of the Holy Quran related with Space Science. 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. The Participant shall submit Three (3) photographs of the product, taken at start, middle and end of Production. Any painting material can be used, while a scholar sheet of the size 22"x30" or 18"x24" maybe used.
54	Alien Sketch: Space Caricatures	Scanned Photograph Submission	6-8	3 hrs.	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 with in 3 hours of the competition. The Participant shall submit Three (3) photographs of the product, taken at start, middle and end of Production
55	Masks Making: Space Masquerade	Scanned Photograph Submission	6-8	3 hrs.	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 with in 3 hours of the competition. The Participant shall submit Three (3) photographs of the product, taken at start, middle and end of Production

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H.						**Space Performing Arts**
56	WSW 2023 Snap: Collecting Memories	Photograph Submission	6-8	Submission	1	Each participant is required to submit 3 group photographs /Selfies. The snap must be of the whole school group participating in WSW 2023, such that the participants are involved in or engaged in a WSW related activity.
57	WSW 2023 Snap: Collecting Memories	Photograph Submission	9-12	Submission	1	Each participant is required to submit 3 group photographs/Selfies. The snap must be of the whole school group participating in WSW 2023, such that the participants are involved in or engaged in a WSW related activity.
58	One Man Show: Dramatizing Space	Script and Video Submission	9-12	5-7 minutes	1	Participants will be required to submit a 5-7 minutes video of Drama performed by Only One Character/Person with a theme related to Space Science & Technology. The participants are also required to submit the script of the performance.
59	Space Theatre: Role Playing in Space	Script and Video Submission	9-12	Submission	Team of max 8 members	The Team is required to submit a video of 10-12 minutes Theater play along with the Script and at least 5 Photographs on the theme of Space Science & Technology. In the final round, the selected Teams will perform at IST with minimum props and light effects.
60	WSW Vlog: Broadcasting Space	Video Submission	9-12	3-5 minutes	Team of 2 members	The Team is required to create and submit a Vlog and 5 Photographs of WSW 2023 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.

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I.						**Space Life**
61	Space Recipes: The Space Chefs	Power Point Presentation with Voice Over Submission	9-12	5 minutes	1	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 5 minutes PowerPoint presentation with voiceover, explaining all items, and recipe.
62	Sports in Space: Space Athletics	Power Point Presentation with Voice Over Submission	9-12	5 minutes	1	The participants has to submit a 5 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.
63	Space Settlement: Colonizing Space	Power Point Presentation with Voice Over Submission	9-12	5-7 minutes	Team of 2 members	The Team has to submit a 5-7 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.
64	Visualizing Space Environment: Living in Space	Power Point Presentation with Voice Over Submission	9-12	5-7 minutes	Team of 2 members	The Team is required to propose solutions to the any 5 problems faced to human life / sustainability in space environment. Each participant is required to submit a 5-7 minutes Power Point Presentation with voiceover, preferably in video format. The problems will be disclosed 24 hours before the submission deadline.

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65	Space Farming: Making a Green Space	Power Point Presentation with Voice Over Submission	9-12	5-7 minutes	Team of 2 members	The Team is 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 5-7 minutes Power Point Presentation with voiceover, preferably in video format. Participants shall give references to the existing experiments on the ISS as well.

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J.						**Space Entrepreneurship**
66	Astrepreneurship: Pitching Business Ideas	Power Point Presentation with Voice Over Submission	9-12	5-7 minutes	Team of 2 members	The Team is required to present a startup idea based on Space Technology & its Applications. Each participant has to submit a 5-7 minutes power point presentation with voiceover, preferably in video format. The ideas may vary from educational startups to technological and commercial startups.
67	Space Park Design: Space Recreation	Power Point Presentation with Voice Over Submission	9-12	5-7 minutes	Team of 2 members	The Team is required to present a conceptual design along with the detailed requirements to build a Space Park in Pakistan. The participants will submit a 5-7 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.
68	Planetarium Design: Exploring the Dome	Power Point Presentation with Voice Over Submission	9-12	5-7 minutes	Team of 2 members	The Team is required to present a plan to build a Planetarium in Pakistan. The participants will submit a 5-7 minutes power point presentation with voiceover, preferably with voice over. The design of planetarium must have the sitting capacity of 50-75 persons. Participants may refer to the internet to study and gather knowledge about Planetariums worldwide.
69	Observatory Design: Gateway to Space	Power Point Presentation with Voice Over Submission	9-12	5-7 minutes	Team of 2 members	The Team is required to present a plan to build an Observatory in Pakistan. The participants will submit a 5-7 minutes power point presentation with voiceover. The observatory shall have the capacity to house two telescopes of 16" and 18" in diameter. Participants may refer to the internet to study and gather knowledge about Observatories worldwide.

NATIONAL CENTER OF GIS & SPACE APPLICATIONS

S.#	Module Name	Module Format	Class Grade	Duration	Max. No of Students Per Institute	Description (Round 1)
	World Space Week 2023 **Space Education Research Lab** **National Center of GIS & Space Applications** **Institute of Space Technology, Pakistan** **List of Modules**					
70	Space Debris Cleanup: Space Sustainability	Power Point Presentation with Voice Over Submission	9-12	5-7 minutes	Team of 2 members	The Team is required to submit a 5-7 minutes presentation with voiceover on a business idea that focuses on developing solutions for cleaning up space debris, which poses a significant threat to active satellites and spacecraft in Earth's orbit.
71	Space Agriculture: Food Security in Space	Power Point Presentation with Voice Over Submission	9-12	5-7 minutes	Team of 2 members	The Team is required to submit a 5-7 minutes presentation with voiceover to explore ways to grow food in Space or any other Planet/Moon.
72	Space Careers: Job Fair	Power Point Presentation with Voice Over Submission	9-12	5-7 minutes	Team of 2 members	The Team is required to submit a 5-7 minutes presentation with voiceover to enlighten different career opportunities in space.
73	Space Opinions: Space Writers	Document Submission	9-12	3 hrs.	1	Participants are required to submit a report on news articles or opinion pieces discussing the latest developments in space exploration, highlighting entrepreneurial initiatives, and their potential impact. The news articles will be provided at the start of the Event. The report should be in word/pdf format.
74	Space Tourism: Marketing Campaign	Compressed folder including all video and design files	9-12	5-7 minutes	Team of 2 members	The Team is required to submit a 5-7 minutes Presentation with voiceovers creating a marketing campaign for a fictional space tourism company. Participants can design promotional materials, advertisements, and social media content to attract potential space tourists.
75	Space Conference: Scientific Networking	Power Point Presentation with Voice Over Submission	9-12	5-7 minutes	Team of 2 members	The Team is required to submit a 5-7 minutes Presentation with voiceover containing a detailed plan of a Space Conference to be held in Islamabad, Pakistan.

S.#	Module Name	Module Format	Class Grade	Duration	Max. No of Students Per Institute	Description (Round 1)
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K.	**Series of Webinars, Talks and Lecture (Online & Hybrid)**					
*	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.					
Notes						
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: www.ncgsa.org.pk/wsw, 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 and					
5	Category wise workshops will be conducted to explain the events and their execution in detail.					
Contact Us						

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