



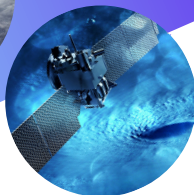
Institute of  
Aeronautics  
Astronautics &  
Aviation



SPACE GENERATION  
ADVISORY COUNCIL

*PRESENTS*

# INTERNATIONAL ASTRONOMY CONTEST 2020-2021



*PARTNERING WITH!*



  
National Space Society (USA)  
MUMBAI, INDIA



ASTRONOMY CLUB OF CAMEROON  
CREATED BY: [unreadable] PRESIDENT: [unreadable]

# NEED

The COVID19 pandemic crisis has severely impacted and disrupted academic education and regular student activities all over the world. Online learning has become one way out of this predicament, until a new normal is established. Professional bodies and societies need to play key roles in developing related communities during these challenging times. An undeniable reality is that this crisis has revealed several opportunities for networking between focused international groups with respect to knowledge sharing. Space exploration and stargazing have continually yielded inspirational discoveries for mankind.

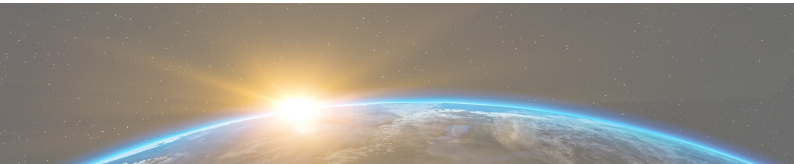
Kindling curiosity in astronomy among young minds can play a vital role in seeding optimism and nurturing a healthy focus in science and learning. An INTERNATIONAL ASTRONOMY CONTEST that teaches, trains, allows for networking and finds exceptional talent in the astronomical sciences/engineering can be an excellent guiding beacon to realize aspirational dreams. Training opportunities in Astronaut/Space/Astronomy Camps as prizes can greatly inspire and motivate school students towards active engagement.



# ABOUT

Institute of Aeronautics Astronautics and Aviation (IAAA) is organising the International Astronomy Contest 2021 in association with Space Generation Advisory Council (SGAC), Astronomy Club of Cameroon (ACC), National Space Society (NSS) USA Mumbai Chapter, the Indo-Russian Chamber of Commerce and Industries (IRCCI) and

Bangladesh Astronomy Research Centre (BARC), with the Office For Astronomy Outreach of International Astronomical Union (IAU) as the Dissemination Partner. Top 10 participants in the contest will be sponsored to attend the Future Astronauts Training Camp at Russia, and the top 100 participants will be awarded accolades. The contest provides 7 certified online courses in Round 1, 5 certified webinars in Round 2, ample networking opportunities with industry experts through one week satellite architecture workshop in Round 3, and coding training and project planning in Round 4



# SLINGSHOT - ROUND 1

COURSE 1 :HIGHLIGHTS OF MODERN ASTRONOMY

COURSE 2 :BIG BANG TO DARK ENERGY

COURSE 3 :ASTRONOMY EXPLORING TIME AND SPACE-I

COURSE 4 :BLACK HOLES

COURSE 5 :ASTRONOMY : EXPLORING TIME AND SPACE-II

COURSE 6 :THE EVOLVING UNIVERSE

COURSE 7 :RESEARCH AND CONTRIBUTIONS



For Round 1, participants should complete any 5 online courses out of the listed 7. Extra courses completion (more than the 5 required courses) will receive additional credits. Each course will require an average of 6 weeks of reading and assignments. After completion, participants will be provided with a course completion certificate. In addition to the contest, this round provides participants the opportunity to access USD 350 worth of online certified courses. Credits attained during this round will be added with those attained during Rounds 2 and 3 for cash awards.





# GRAVITY - ROUND 2

For Round 2, participants should attend any 5 online webinars out of 15 offered webinars. For every attended webinar, a certificate will be provided after passing an online quiz. Extra webinar completions (more than the 5 required webinars) will receive additional credits. Each webinar will be offered by an expert scientist or researcher or academician in the field. Experts and astronauts from NASA, ROSCOSMOS and ISRO will be also delivering lectures. Credits attained during this round will be added with those attained during Rounds 1 and 3 for cash awards.



# INERTIAL - ROUND 3

For Round 3, participants will be attending a workshop on Space Worthiness, Satellite Architecture and Satellite Coding worth USD 500. The workshop will be for 5 days, including 35 hours of training. The workshop training programme can be accessed and completed by participants according to their available convenient time. This will be handled by industry experts and scientists from the related sector. Credits attained during this round will be added with those attained from Rounds 1 and 2 for cash awards.



# THE LIFT OFF - ROUND 4

For Round 4, participants will be competing on a Design Project. The contest rule book will be released after Round 3. This round will be a platform for participants to apply their knowledge learnt during the previous rounds. This will play a crucial role in deciding the final participants for the Astronaut and Space Camp. The Jury Panel will include eminent researchers and scientists . Credits attained during this round will be added with points attained during Rounds 1 to 3 for choosing the overall finalists.



# TIMELINE

FEBRUARY 2021  
DEADLINE: REGISTRATION

MARCH 2021  
COMMENCEMENT: COURSES

JUNE 2021  
COMMENCEMENT: WEBINARS

SEPTEMBER 2021  
COMMENCEMENT: SATELLITE  
ARCHITECTURE WORKSHOP

NOVEMBER 2021  
MERIT RESULT AND CASH AWARD  
ANNOUNCEMENTS

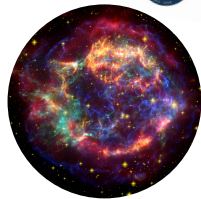
DECEMBER 2021  
COMMENCEMENT: PROJECT CONTEST

FEBRUARY 2022  
FINAL RESULT, ASTRONAUT CAMP TRAINING  
FINALIST AND HONOURS ANNOUNCEMENTS



# INSIGHT

The contest provides 7 certified online courses on astronomy, in which each participant should complete a minimum of 5 courses to clear Round 1 (Slingshot). Participants who have cleared Preliminary Round will attend 5 certified webinars. Successful participants who clears Webinar Quiz will clear Round 2 (Gravity). After Quiz the successful candidates will be trained on Satellite Coding as part of Round 3 (Inertial). The filtered participants will be competing for a surprise task to win the Grand Finale Round 4 (Lift-Off). *All participants will be benefited with USD500 worth certification programmes from the contest.*



## PRIZES

**The top 5 participants will get to attend the Astronaut Camp Training worth USD 3000, those finishing 6-10 will attend a training camp worth USD 2000. Contest course toppers stand the chance to win one USD 700 cash award and three USD 100 cash awards.**

# ORGANIZERS...

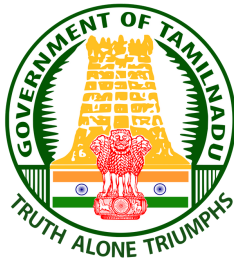


**Institute of Aeronautics Astronautics and Aviation (IAAA)** is an Indian not-for-profit professional body committed towards the development of the astronautics, aerospace and aviation community. IAAA was established after its National Council Policy Development meeting at MIT, Chennai (2017). IAAA focuses in bridging industry and academia through its member benefit activities. IAAA creates an opportunity to actively contribute and co-exist with industry leaders.



SPACE GENERATION  
ADVISORY COUNCIL

**Space Generation Advisory Council (SGAC)** is found in Support of the United Nations Programme on Space Applications is a global non-governmental, non-profit (US 501(c)3) organisation and network which aims to represent university students and young space professionals ages 18-35 to the United Nations, space agencies, industry, and academia. Headquartered in Vienna, Austria, the SGAC network of members, volunteers and alumni has grown to more than 15 000 members representing more than 150 Countries.



## **Government of Tamil Nadu and its Department of School Education**

envisions to achieve universalisation of education at both elementary and secondary levels by providing burden less quality education through joyful learning and to provide basic infrastructure coupled with safety and security for the well being of the children.



**Honorable Thiru Banwarilal Purohit, Governor of Tamil Nadu** is the Constitutional Head of the state. **Hon'ble Chief Minister of Tamil Nadu Thiru Edappadi K. Palaniswami** is the Head of the elected Government and heads the Council of Ministers. Tamil Nadu State has a population of 7,21,47,030 as per Census 2011 and covers an area of 1,30,058 sq.km Chennai (formerly known as Madras) is the State Headquarters.





**National Space Society (USA)**  
**MUMBAI, INDIA**



**National Space Society (NSS)** was originally founded as the National Space Institute in 1974 (based on the leadership of Wernher Von Braun) and the L5 Society in 1975 (based on the ideas of Princeton physicist Gerard K. O'Neill). The two organizations merged to form NSS in 1987. Widely acknowledged as the preeminent citizen's voice on space, NSS has chapters in the United States and around the world. The society also publishes Ad Astra magazine, an award-winning periodical chronicling the most important developments in space, and organizes the annual International Space Development Conference (ISDC). NSS,USA, Mumbai is being the Knowledge Partner of the contest



### **IRCCI-Indo Russian Chamber of Commerce & Industries**

is the most active and recognized chamber of commerce in India with Russia. Celebrating successful 25 years, IRCCI traces its root to Soviet era days and more precisely pre-independence days of India. RosCosmos in partnership with IRCCI, provides students a chance of interacting with cosmonauts in ISS apart from learning the history and journey of Space Exploration and Research programs from 3 leading Space Museums in Russia, namely Moscow, St. Petersburg and Kaluga.



## DESSEMINATING PARTNER



**IAU Office for Astronomy Outreach (OAO)** is a joint project of the International Astronomical Union (IAU) and the National Astronomical Observatory of Japan (NAOJ), under the auspices of the National Institutes of Natural Sciences (NINS) of Japan. The office is based in Tokyo, at the NAOJ Mitaka Campus.

The mission of the OAO is to engage the public in astronomy through access to astronomical information and communication of the science of astronomy. This is implemented through a network of IAU National Outreach Coordinators (NOCs) and the IAU's engagement initiatives with the public, encouraging active communication of science through IAU member public engagement, professional-amateur, and citizen science activities. The work of the OAO is about building bridges between the IAU and the global astronomy community of amateur astronomers, outreach practitioners, educators, communicators, and the general public, and through international collaboration, to make the science of astronomy accessible to all.



**Bangladesh Astronomy Research Center (BARC)** is an organization of highly motivated people in Bangladesh. Its vital motto is to spread astronomy and create a strong astronomical research community and to provide a common platform for all astronomy enthusiastic people.



**Astronomy Club of Cameroon** is committed and invested in the future of Cameroon's exploration of outer space. Its collaborations to date have resulted in the nomination and confirmation to be the IAU's National Outreach Coordinator of Cameroon. NOC of Cameroon has created and registered a committee that is devoted to Cameroon and the dissemination of astronomy material to the public through multiple avenues.

**SO, WHAT ARE U WAITING FOR?**

**REGISTER FOR THE CONTEST**

**DREAM UR CAREER TO BE AN ASTRONAUT...**

**VISIT** <https://www.iaaaindia.com/international-astronomy-contest> 



**INSTITUTE OF AERONAUTICS  
ASTRONAUTICS AND AVIATION**



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**IAAA-Updates**



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