



INNOVATION CENTER

GITAM Hyderabad



NASA SPACE APPS CHALLENGE (Pre-Qualifier Round)

CONCEPT:

The International Space Apps Challenge is an international mass collaboration focused on space exploration that takes place in different cities around the world. The event embraces collaborative problem solving with a goal of producing relevant open-source solutions to address global needs applicable to both life on Earth and life in space. NASA is leading this global collaboration along with a number of government collaborators and over 100 local organizing teams across the globe.

DATE: 20th and 21st September, 2019.

DURATION: 24 hours.

LOCATION: GITAM (Deemed to be University), Hyderabad.

ORGANIZERS:


Faculty Coordinators:

- Dr. P. Trinatha Rao

Organizing Team:

- | | |
|----------------------------|-----------------------|
| • Kandimalla Viswas | • Sai Theja |
| • Kapila Sai Mohit | • Vinay Kothapalli |
| • Dhruv Patwari | • Harshith Kothapalli |
| • Guggilam Lohitha Lakshmi | • Abhilash Mahamkali |
| • Ananya Rachuri | • Jatin Gopishetty |
| • Vennela Chowdary | • Gopi Bollineni |
| • Rishitha B | • Prithvi Raj |

Number of Volunteers: 35


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GOALS:

- To bring forth innovative ideas and solutions to the problem statements provided by Space Apps Team.
- To encourage students to know about hackathon culture and how to solve real time issues or problems using NASA open data
- To form Space Apps Student Community in tier 2 and tier 3 colleges
- People selected in Pre Qualification will be sent to local level of hackathon where they will be competing with different zonal winners

BOOTCAMPS CONDUCTED:

GITAM, Hyderabad:

Date: 29th August 2019.

Guests: Sai Kiran Katapally (Founder and MD of SUMVN) and SUMVN team

No of students attended: 452

The boot camps for pre-qualifier round of hackathon were conducted by Innovation Center, GITAM, Hyderabad organizing team where our guest Mr. Sai Kiran, introduced our students about the event and its importance. They gave a presentation on how the event was conducted back in 2016, 2017 and 2018. They talked about how the pre-qualifier event would be conducted in the college including the procedure to register, innovate and a few tips on how to pitch an idea and also about the impact it would create on their career. They talked about their plans to start a Space Apps Community to help students interact with each other and build up their projects for the next year's challenges. It would be a technical community which would ensure to teach students new skills and encourage them to work on their projects and ideas. They introduced the challenges of previous year on which the students need to on work and gave them a detailed information about what the themes dealt with. The students were also made to join the interactive session where they had the opportunity to have a clear picture about the event.

ABOUT THE EVENT



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CHALLENGES ON WHICH THE STUDENTS WORKED ON:

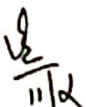
- Design by Nature
- Make Sense Out of Mars
- Do YOU Know When the Next Rocket Launch Is?
- Invent Your Own Challenge
- Artify the Earth
- 1D, 2D, 3D, Go!
- Space Apps: The Documentar
- Don't Forget the Can Opener!
- Spot That Fire!
- Hello, Bennu!
- Looking GLOBE-ally
- The Land Where Displaced People Settle
- Health Makes Wealth
- Polar Quest
- Find My Cryosphere!
- Polar Opposites
- On the Shoulders of Giants
- Remix The Golden Record
- Mission to the Moon!
- Virtual Space Exploration

NO OF PARTICIPANTS ATTENDED: 128

NO OF TEAMS REGISTERED: 32

AGENDA OF THE EVENT:

Day 1:



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S. No	SESSION	TIME	VENUE
1.	Registrations	9:30 to 11:00	D – Block Entrance
2.	Inauguration by guests	11:00 to 11:15	Auditorium Hall
3.	Introduction to NASA Space Apps Challenge	11:15 to 11:30	Auditorium Hall
4.	Team introduction and Elevator Pitching	11:30 to 12:40	Auditorium Hall
5.	Lunch	12:40 to 13:30	Auditorium Hall
6.	Working on Ideas	13:30 to 15:30	Auditorium Hall
7.	Mapping and processing on Ideas	16:00 to 18:00	Auditorium Hall
8.	Break	18:00 to 18:30	Auditorium Hall
9.	Mentoring on Ideated teams	18:30 to 21:30	Auditorium Hall
10.	Dinner	21:30 to 22:30	Auditorium Hall
11.	Networking and Prototyping	22:30 to 00:00	Auditorium Hall

Day 2:

S. No	SESSION	TIME	VENUE
12.	Networking and Prototyping	00:00 to 01:30	Auditorium Hall
13.	Fun session	01:30 to 02:30	Auditorium Hall
14.	Validation of Ideas	02:30 to 03:30	Auditorium Hall
15.	1st round of Scrutinization	03:30 to 06:30	Auditorium Hall
16.	Fresh up and Breakfast	06:30 to 07:00	Auditorium Hall
17.	2nd round of Scrutinization	07:00 to 08:30	Auditorium Hall
18.	Final Pitching's	08:30 to 8:45	Auditorium Hall
19.	Awarding Ceremony	08:45 to 09:10	Auditorium Hall
20.	Closing ceremony	09:10 to 09:30	Auditorium Hall

ABOUT THE EVENT (in detail):

The event began with an inauguration ceremony after which the pitching started. Up to 32 teams were registered and participated as a part of the pre-qualifier


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round. During the elevator pitch, each team was given about 2 minutes to register their team into the competition.

Post lunch, the students started working on their ideas from given challenges. The mentoring was provided to students by experts on Android Developing, Web developing, Artificial Intelligence and Blockchain. They were also mentored on projects related to Civil, Electrical, Electronics and Mechanical backgrounds.

Students were able to interact with the mentors from SUMVN and get valuable inputs from them and validate their ideas and work on the loopholes their ideas might have after which the mentor validated the ideas of students.

During the first scrutinization each team was given 3 to 5 minutes of time to pitch their idea among which top 10 teams were selected to move into the next round.

The second round of pitching started after Breakfast after which top 5 teams were selected by the jury and awarded.

MEMBERS OF THE JURY:

- Mr. Sai Kiran Katapally (Local Lead of Space Apps Hyderabad)
- Mr. Raj Mohd (Professor, Department of CSE, GITAM, Hyderabad)
- Mrs. Uma Devi (Professor, Department of Chemistry, GITAM, Hyderabad)

The winners were selected based on how technically sound they were, their creativity and the open data sets used by the students.

RESOURCES PROVIDED:

- Printing brochures and posters.
- Food (dinner and breakfast).
- Tea and snacks.


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- Electricity.
- Wi-Fi.
- Water supply.
- Faculty incharges.
- Photography.
- Social media support.
- Transportations.
- Kits, ID cards and Tags.
- Momentos.
- Certificates.

Results:

- The event was successful with 128 participants.
- Among 32 teams 5 top teams were selected as winners of the hackathon at GITAM, Hyderabad.
- The winners will be participating in Final conducted nationwide in Delhi, India.

Feedback and learning points:

Faculty Coordinator:

Dr. P. Trinatha Rao

Our students have got good exposure to the real time scenarios by attending the pre qualification Hackathon organized by SUMVN at our


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college, and a new dimension thinking capability of the students has made them to innovate and explore the new ideas.

Student Coordinator:

Dhruv Kumar Patwari

The pre-qualification Hackathon conducted at our college by SUMVN was very useful to our students in exploring their innovative skill and enhancing their knowledge levels.

Future Development:

- To create a community called Space Apps student community to ensure that the students learn about technology and build up their ideas into products and solve real time problems of world which will be addressing in upcoming hackathons which are going to be conducted in the future.
- To support the students selected to the next round of Space Apps hackathon by providing relevant mentors and technical experts.
- To support innovations in the community from layman and young students.

Winners of Space Apps Challenge at GITAM, Hyderabad:

Winner – 1:

Team Members:

1. Rohit Ganji
2. V Viren Dayal
3. Rishitha Bendukuri


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Winner – 2:

Team Members:

1. P.Satya SriRam Varma
2. Anant Mishra
3. Kallem Manikumar Reddy
4. Aluri Shruthi

Winner – 3:

Team Members:

1. NSSS Anvesh
2. M. Harshith Chowdary
3. T. Narasimha
4. B.Sahil

Winner – 4:

Team Members:

- | | |
|-----------------------|------------|
| 1. M. Dheeraj Krishna | 5. Kavya |
| 2. G. Vignesh | 6. Prajwal |
| 3. M. Nityesh | |
| 4. Sashikanth | |

Winner – 5:

Team Members:

1. Lavanya B.N
2. G.V.Vyshnavi
3. Shravani M.R
4. Chaitra P.D


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