



PALLAVI ENGINEERING COLLEGE

(APPROVED BY AICTE, NEW DELHI, AFFILIATED TO JNTUH, HYDERABAD)
NAGOLE, HYDERABAD, R.R DIST 501505, TELANGANA STATE, INDIA

SPACE APPS CHALLENGE EVENT REPORT

(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 – 21st April, 2022

DURATION: 24 hours

LOCATION: Pallavi Engineering College, Nagole

ORGANIZERS:

Team Leads:

- Domapalli Vamshi
- Kanchikacharla Aditya Yashwanth
- Tumu Eshwari
- Vudumula Deepthi Krishna

Organizing Team:

- | | |
|------------------------------|---------------------|
| • Balappa Laxmi Krishnaveni | • Gummula Swathi |
| • Thoramamidi Prudhvi Raj | • Pattam Meghana |
| • Golla Sai Kiran | • Cheguri Rishwanth |
| • Balappa Harika | • Adike Pavani |
| • Mohammed Abdul Raheem khan | • Kanala Preethi |
| • Vadla Bharath Chary | • Kavuri Jeshmitha |
| • Ambati Srujana | • Radharapu Divya |

ANUMANTHU SHANTHI PRIYA (HOST)

Principal

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- Kata Asish Vardhan
- Ambati Sushma
- Baki Swathi
- Cherku Mahesh
- Kristipati Thoyajaksha Kashyap
- Gollapalli Sirisha
- Korra Sandeep
- Mirza Mahaboob Baig

Number Of Volunteers: 26

GOALS:

- To bring forth innovative ideas and solutions to the problem statements provided by the Space Apps Team.
- To encourage students to know about hackathon culture and how to solve real time issues or problems using NASA open date
- 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:

PALLAVI ENGINEERING COLLEGE, HYDERABAD:

GUESTS: Sai Kiran Katapally (Founder of SUMVN and Space App India) and SUMVN Team

No of Students attended: 450

The boot camps for pre-qualifier round of hackathon were conducted by Pallavi engineering college, Hyderabad organizing team where our guest Mr. Sai Kiran, introduced our students about the event and its importance. They gave presentation on how the event was conducted back in 2019,2020 and 2021. 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 carrier. They talked about their plans to start a Space Apps Community to help students interact with each other and build up their projects for 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


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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 student was also made to join the interactive session where they had the opportunity to have a clear picture about the event.


ABOUT THE EVENT

CHALLENGES ON WHICH THE STUDENTS WORKED ON:

- Home Planet at Your Fingertips
- Scanning for Life forms
- Sleep Shift Scheduling Tool
- Orbital Scrap Metal – The Video Game V2.0
- Let's Connect
- Data Discovery for Earth Science
- Show the World the Data!
- A Flood of Ideas
- Make Sense Out of Mars
- Fly-by-Wireless
- 1D, 2D, 3D, GO!
- Don't Forget to Can Opener.
- Mission to the Moon!
- Virtual Space Exploration
- Warming Planet, Cool Ideas
- Where the Tall Things Are Found
- Internet on the Ocean 18
- 1UP for NASA Earth
- Invent Your Own Challenge
- Space App: The Documentary

NO OF PARTICIPANTS ATTENDED: 144

NO OF TEAMS REGISTERED: 36


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AGENDA OF THE EVENT:

DAY 1:

S.NO	SESSION	TIME	VENUE
1.	Registrations	9:30 AM – 10:00 AM	Auditorium Hall
2.	Inauguration by guests	10:00 AM – 10:30 AM	Auditorium Hall
3.	Introduction to NASA Space Apps Challenge	10:30 AM – 11:00 AM	Auditorium Hall
4.	Team introduction and elevator pitching	11:00 AM – 12:40 PM	Auditorium Hall
5.	Lunch Break	12:40 PM – 1:30 PM	Auditorium Hall
6.	Working on ideas	1:30 PM – 2:30 PM	Auditorium Hall
7.	Talk by Sai Kiran	2:30 PM – 3:00 PM	Auditorium Hall
8.	Mapping and processing on ideas	3:00 PM – 5:00 PM	Auditorium Hall
9.	1st round of Scrutinization	5:00 PM – 6:00 PM	Auditorium Hall
10.	Break	6:00 PM – 6:30 PM	Auditorium Hall
11.	Mapping and processing on ideas	6:30 PM – 8:30 PM	Auditorium Hall
12.	Networking and Prototyping	8:30 PM – 9:30 PM	Auditorium Hall
13.	Dinner	9:30 PM – 10:30 PM	Auditorium Hall
14.	Mentoring session	10:30 PM – 1:00 AM	Auditorium Hall

DAY 2:

S.NO	SESSION	TIME	VENUE
15.	Fun Session	1:00 AM – 2:00 AM	Auditorium Hall
16.	2nd round of Scrutinization	2:00 AM – 4:00 AM	Auditorium Hall
17.	Validation of ideas	4:00 AM – 6:30 AM	Auditorium Hall
18.	Break	6:30 AM – 7:30 AM	Auditorium Hall
19.	Final round Scrutinization	7:30 AM – 9:00 AM	Auditorium Hall
20.	Winners Announcement and closing ceremony	9:00 AM – 9:30 AM	Auditorium Hall


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ABOUT THE EVENT (in detail):

The event began with an inauguration ceremony after which the pitching started. Up to 36 teams were registered and participated as a part of the pre-qualifier 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, Electronic and Mechanical backgrounds.

Students were able to interact with 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 the students.


During the first scrutinization each team was given 3-5 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 4 teams were selected by the jury and awarded

MEMBERS OF THE JURY

- **Mr. Sai Kiran katapally** (local lead of Space Apps)
- **Dr. Kaushik Madakasira** (Center head ACIC CBIT research and Entrepreneurship foundation)
- **Mr. Manish Kumar Gutta** (Founder and CEO of Outshade)
- **Mr. Kalyan Dikshit** (Technical speaker)
- **Mr. Baradwaj Arvapally** (Co-founder, ABTechVille and Product Manager at IoT research labs)

The winners were selected based on how technically sound they were, their creativity and the open data sets used by the students. The winners were also chosen for a bootcamp that was conducted on 18th of April 2022, where they were asked to


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update about the progress about the project that they presented on the day of the hackathon.

RESOURCES PROVIDED:

- Food for participants (dinner and breakfast)
- Tea and snacks
- Banner
- Internet connectivity
- Systems
- Power Backup
- Audio System
- Projector
- Social media support
- Transportation
- Momentous
- Certificates

Results:

- The event was successful with 144 participants
- Among 36 teams top 6 teams were selected for the next round of the local level of hackathons.
- The winners will be Participating in State and National levels of Space Apps

FEEDBACK AND LEARNING POINTS:

PRINCIPAL:

Dr. M.B. Raju

Our students have got good exposure to the real time scenarios by attending the pre-qualification Hackathon organized by SUMVN at our college, and a new dimension thinking of the students has made them to innovate and explore the new ideas

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Coordinator

DR. Sanjeev Kumar

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.

- The bootcamp which held before the hackathon was good, as our students were very curious to be part of this hackathon, we got to know about the no. Of participants and had a chance to listen to their ideas which were all unique and innovative. Overall, it was good experience as it was the first hackathon in our college
- We are looking forward for the next years hackathon and our best wishes for your future hackathons

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 problem 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 Pallavi Engineering College, Nagole

Winner 1:

Team 11: CREW UNITED

Project: 8 minutes ambulance service

1. Zeeshan Mohammed
2. Pulin Pathak
3. Altaf Baba
4. Reheem khan


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Winner 2:

Team 18: KANYARASI

Project: Visualization of kepler observatory data using python

1. K. Tejovanth
2. S. Navyasree

Team 25: HUSTLERS

Project: Cryonics

1. V. Gowri Shankar
2. A. RAMU
3. K. Sai Rushali
4. P. Tarakprabhu

Winner 3 :

Team 13: SENTINEL

Project: Space debris

1. Abdul saboor
2. R. Dhanush
3. B. Sumanjali
4. G. Srikar

Team 27: INNOVATORS

Project: Sleep shift schedule tool for astronauts

1. Ch. Sowmya
2. Ch. Padmapriya
3. Sidrameshwar
4. K. Jashmitha

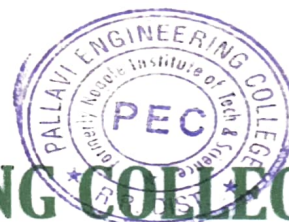


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Winner 4:

Team 14: THE LEADERS

Project: Emergency vehicle service

1. V. Pranay
2. G. Gouthami
3. K. Nagaraju
4. B. Krishnaveni




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కొత్త ఆలోచనలకు చక్కటి వేదిక



పెద్దతరహాలో ఉన్న యాభై టెక్నాలజీ-2022 పేరుతో సుమ్మర్ సెస్సన్, పల్లవి ఇంజనీరింగ్ కళాశాలలో సంయుక్త ఆధ్వర్యంలో నిర్వహించిన కార్యక్రమానికి స్పందన అందించిన ముదవారం కళాశాల హాల్లో 144 మంది విద్యార్థులు 35 బృందాలుగా పాల్గొన్నారు. పల్లవి ఇంజనీరింగ్ కళాశాల ఛైర్మన్ మల్లా కొమురయ్య మాట్లాడుతూ విద్యార్థులు కొత్త ఆలోచనలు, ప్రయోగాలతో ముందుకెళ్లడమే చక్కటి వేదికలా ఈ కార్యక్రమం ఉపయోగపడుతుందని ఆశ్చర్యం వ్యక్తం చేస్తూ, అవమిక్ ఛైర్మన్ కాటపెల్లి సాయిశిరీశ్, డి.వి.రమణ తదితరులు హాజరయ్యారు.



గౌరవశ్రీక ఆవిష్కరించిన మల్లా కొమురయ్య, ఛాక్లర్ ఎం.వి.రాజు తదితరులు



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