

"24 HOURS" NASA SPACE APP CHALLENGE



"24 Hours of NASA SPACE APP CHALLENGE" in ACE ENGINEERING COLLEGE.

Hosted on 25th June & 26th June.

Venue - ACE ENGINEERING COLLEGE.

No. of Participants - 18 Teams.

ACE Launchpad in Collaboration with FoundersLabs

Ace Launchpad, in collaboration with FoundersLab, organized a 24-hour NASA Space Apps Hackathon to provide significant exposure to students from ACE Engineering College in the field of space and space technology. The primary goal was to offer students real-time experience in space innovation and technology by connecting them with mentors from the industry. The hackathon aimed to ignite entrepreneurial spirit among students, encouraging them to generate ideas related to space and satellites.

This event aimed to broaden students' horizons of thinking and enhance their knowledge about space, NASA, and related industries. By participating, students had the opportunity to build confidence, expand their network within the space sector, and gain valuable insights into cutting-edge developments in space technology.

The hackathon not only fostered innovation but also facilitated hands-on learning through mentorship and practical problem-solving challenges posed by NASA. It served as a platform for students to showcase their creativity, collaborate with peers, and potentially pave the way for future careers in space exploration and technology.

Overall, the ACE NASA Space Apps Hackathon was designed to empower students, inspire innovative thinking, and cultivate a deeper understanding of the vast opportunities in the space industry.

ACE Launchpad

ACE Launchpad and FoundersLab joined forces on March 1st and 2nd to host a captivating exploration of the expanding field of drone technology at ACE Engineering College. This two-day workshop brought together a diverse group of aspiring engineers and enthusiasts to uncover the complexities of unmanned aerial vehicles (UAVs) and explore their immense potential in today's ever-changing technological landscape. Through a mix of informative sessions, interactive activities, the workshop aimed to empower participants with the knowledge, skills, and inspiration to navigate the skies with creativity and innovation. This report captures the enriching experiences, enlightening discussions, and forward-looking initiatives that defined this immersive journey into the realm of drone technology.

INTRODUCTION TO SPACE APPS PRE- QUALIFICATION HACKATHON IN ACE ENGINEERING COLLEGE

Space App India is an initiative taken by SUMVN , to build the Space Community in India and bring innovative ideas from young mindsets. Space App India brings together ideas from students, designers ,startups, working professionals, research scholars, and domain experts on one common platform.

The Space Apps challenge brings together ideas from students, designers, startups, working professionals, researchers, scholars, and domain experts on one common platform.

The Space Apps challenge brings together ideas from students, designers, startups, working professionals, research scholars and domain experts on one common platform. The NASA Space Apps Challenge is being organized by Space App India and SUMVN with the support of Department of Science and

Technology, Atal Innovation Mission, Startup India, Government of Telangana, Research and Innovation Circle Of Hyderabad, Women innovator, Dhruva Space, Outshade Digital Media and IHub.

OBJECTIVE :

Foster Innovation: Provide participants with a platform to seed and nurture innovative ideas that address challenges posed by NASA. Encourage out-of-the-box thinking and creative problem-solving.

Global Connectivity: Facilitate connections and collaborations among participants, including students, designers, startups, professionals, scholars, and experts from various domains, both nationally and internationally.

Networking and Mentorship: Create opportunities for participants to network with mentors, scientists, and industry experts. Enable knowledge sharing, guidance, and mentorship to support the development and refinement of ideas.

Challenge-Based Learning: Offer specific challenges from NASA to inspire and guide participants in tackling real-world problems related to space exploration, earth sciences, and technology.

Recognition and Certification: Provide all participants with a participation certificate from NASA, recognizing their contribution and involvement in the hackathon. Winners of the college hackathon also receive a winner's certificate.

Promote Collaboration: Encourage teamwork and interdisciplinary collaboration among participants to enhance the quality and impact of their projects.

Community Building: Contribute to building a strong space community in India by engaging diverse stakeholders and fostering a supportive ecosystem for innovation and entrepreneurship.

OUTCOME :

Innovative Solutions: Participants develop innovative solutions to NASA's challenges, addressing critical issues in space technology, earth observation, climate change, and more.

Skill Development: Enhance participants' skills in problem-solving, project management, teamwork, and communication through hands-on experience and mentorship.

Visibility and Recognition: Increase the visibility of the host college and participants on national and international platforms. The college receives a certificate from NASA for hosting the hackathon, and its name and logo are featured on Space App India's website and associated branding materials.

Impactful Projects: Some teams may qualify to nominate their projects for the central hackathon, extending their opportunity to showcase their solutions at a higher level.

Networking Opportunities: Participants establish connections with peers, mentors, and potential collaborators, fostering future partnerships and career opportunities in the space and technology sectors.

Inspiration and Motivation: Inspire participants to continue pursuing innovative ideas and contribute to space science and technology advancements beyond the hackathon.



INAUGURAL CEREMONY:

Lighting of Lamp by Principal ACE ENGINEERING COLLEGE DR.B.L. RAJU, Dr.Durga Prasad, Dr.Sreelatha, Dr.kondal Rao, Mr.Shravan Ergala(FoundersLab), Mr.Saikiran Katapally (NASA SPACE APPS LEAD).

Future Development:

- To create a Space community by the name Space App India student community to ensure that the students learn about technology and build up their ideas into products and solve real-time problems of the 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.
 - We as the Young Entrepreneur of the country are very enthusiastic to extend our hands and support for the growth of the country.
 - Events like this happen only in IITs and Nits. Other college isn't much aware of these and doesn't get the opportunity to expose students to such innovation. We want to conduct the events in such colleges where ideas of the students are helpful for the society.
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DAY 1:

Hackathon Date: 25th June

Registration Process (10:00 AM – 11:00 AM):

- Participants arrive and complete their registration.
- They receive their event kits and materials.
- Total 18 teams participated.

Event Inauguration and Felicitation (11:00 AM – 11:30 AM):

- Official opening of the hackathon.
- Welcome address by organizers.
- Felicitation of jury and guests.

Introduction of NASA Space Apps Challenge (11:30 AM – 12:00 PM):

- Overview of the NASA Space Apps Challenge goals and themes.

- Explanation of challenges and problem statements.

Team Introduction and Elevator Pitching (12:00 PM – 12:40 PM):

- Participants form teams.
- Each team gives a quick elevator pitch introducing themselves and their initial ideas.

Lunch Break (12:40 PM – 1:30 PM):

- Participants have lunch and network with other teams.

Working on ideas (1:30 PM – 2:30 PM):

- Teams start brainstorming and refining their ideas.
- Initial planning and division of tasks.

Talk by Guest (2:30 PM – 3:00 PM):

- Special session or talk by a guest speaker related to technology, innovation, or the theme of the hackathon.

Mentoring Session (3:00 PM – 5:00 PM):

- Mentors provide guidance and feedback to teams.
- Teams clarify doubts and seek advice on their projects.

1st round of Scrutinization (5:00 PM – 6:00 PM):

- Initial round of project review by organizers or mentors.
- Teams present their progress and receive constructive feedback.

Break (6:00 PM – 6:30 PM):

- Short break for participants to refresh.

Mapping and processing on ideas (6:30 PM – 8:30 PM):

- Teams continue refining their ideas.
- Detailed planning and strategy development.

Networking and Prototyping (8:30 PM – 9:30 PM):

- Teams start building prototypes or models of their solutions.
- Networking among teams and mentors.

Dinner (9:30 PM – 10:30 PM):

- Participants have dinner and take a break.

Mentoring session (10:30 PM – 1:00 AM):

- Late-night mentoring session for teams needing additional support.
- Teams refine their prototypes and prepare for the next day.

DAY 1 MENTORS :

- Mr. Harindra M - Senior Software Developer at CGI , Certified Scrum Master - CSM.
 - Venkata Sai - Chief Technology Officer at Starftch.
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DAY 2 :

HACKATHON DATE : 26th JUNE.

Fun Session (1:00 AM – 2:00 AM):

- A relaxed and fun activity session organized for participants to unwind and recharge creatively after a long day of intense work.
- This session might include games, team-building activities, or a light-hearted workshop to break the intensity of the hackathon.

2nd round of Scrutinization (2:00 AM – 4:00 AM):

- Second round of project review by mentors or judges.
- Teams present their updated progress and prototypes.
- Feedback provided to teams to further refine their ideas and implementations.

Validation of ideas (4:00 AM – 4:30 AM):

- Teams focus on validating their ideas through testing, data analysis, or user feedback.
- Ensuring the feasibility and effectiveness of their solutions.
- Iterative improvement based on validation results.

Break (4:30 AM – 5:30 AM):

- A brief break for participants to rest, refresh, and prepare for the final stages of the hackathon.

Final round of Scrutinization (5:30 AM – 6:00 AM):

- Final review and scrutiny of projects by judges or mentors.
- Teams present their finalized solutions, highlighting key improvements and outcomes.
- Judges evaluate projects based on innovation, feasibility, impact, and presentation.

Winners Announcement and closing ceremony (6:00 AM – 6:30 AM):

- Announcement of winners and recognition of outstanding teams.
- Closing remarks by organizers and sponsors.
- Acknowledgment of mentors, judges, and participants.
- Sharing of experiences and insights gained during the hackathon.
- Next steps and future opportunities discussed (e.g., follow-up events, networking).

DAY 2 MENTORS:

- MR. BARADWAJ ARVAPALLY - CO FOUNDER, ABTECHVILLE LLP
- MR.SANDEEP NEMALIKONDA - PRODUCT MANAGER - ABTECHVILLE LLP
- MR. SANJAY KUMAR CHEPURI - CEO , SANSAH INNOVATIONS



Benefits to Students:

1. Opportunity to Innovate in a Global Endeavor:

Students become part of a significant global initiative aimed at fostering innovation in space exploration and technology. They get to work on real-world challenges posed by

NASA, which are designed to tackle current issues in space science and exploration.

2. Global Networking and Collaboration:

Participants connect with innovators, students, and professionals from around the world. This networking opportunity extends beyond the hackathon, potentially leading to future collaborations and career opportunities in the aerospace and technology sectors.

3. Access to Mentors and Experts:

Students receive guidance and mentorship from experienced professionals, scientists, and mentors throughout the hackathon. This interaction allows them to learn from experts in various fields related to space science, engineering, and technology.

4. Exposure and Recognition:

Participating students gain exposure to the broader scientific community and industry leaders. They have the opportunity to showcase their skills, ideas, and projects, gaining recognition for their contributions to solving complex challenges.

5. Participation Certificate from NASA:

All participants receive a participation certificate directly from NASA, recognizing their involvement in the NASA Space Apps Challenge. This certificate holds significant value on resumes and academic portfolios, highlighting their engagement in a prestigious international event.

6. Opportunity for Central Hackathon Nomination:

Outstanding teams from the local hackathon may be nominated to participate in the central hackathon, providing them with an additional platform to present their solutions and compete at a higher level.

7. Winner's Recognition:

Winning teams receive a winner's certificate, acknowledging their achievement in successfully addressing the NASA challenges. This recognition boosts their credibility and opens doors to further opportunities in their academic and professional journeys.

Benefits to College:

1. Certificate of Recognition from NASA:

The host college receives a certificate of recognition from NASA for hosting the hackathon, underscoring its role in promoting innovation and collaboration in STEM fields.

2. Visibility and Branding:

The college's name and logo are prominently displayed on the Space Apps India website and associated promotional materials. This exposure enhances the college's reputation as a hub for innovation and technological advancement.

3. Recognition at Central Hackathon:

The head of the host college is felicitated at the central hackathon, further elevating the college's profile and highlighting its commitment to fostering innovation and supporting students in STEM education.

4. Use of Space Apps Challenge Logo:

The college gains permission to use the official Space Apps Challenge logo on its website and promotional materials, demonstrating its affiliation with NASA and the global hackathon community.

5. Opportunity for Community Engagement:

The college can actively engage with local schools and colleges by inviting them to participate in or observe the hackathon. This fosters community outreach and promotes STEM education among younger students.

Overall, participation in the NASA Space Apps Challenge not only benefits students by providing valuable learning experiences and global exposure but also enhances the college's reputation as a supporter of innovation and STEM education. It creates a collaborative environment where students can thrive and contribute meaningfully to cutting-edge advancements in space technology and exploration.

SOCIAL MEDIA POST / IMPORTANT DOCUMENTS USED.

BANNER AND SOCIAL MEDIA POST



UNDERTAKING FORM WHICH SHOULD BE DUELY SIGNED BY PARTICPANTS PARENTS



ACE
Engineering College
An Autonomous Institution

(NBA ACCREDITED B.TECH COURSES, ACCORDED NAAC 'A' GRADE)
Ghatkesar, Hyderabad- 501 301

NASA SPACE APP TECH – HACKATHON 2024

UNDERTAKING FROM PARENTS / GUARDIAN

("Support to Students for Participating in Competition Abroad")

I Mr./Ms. _____ Father /Mother /Legal guardian of Mr/Ms
_____ Student of class _____ Roll No.
_____ do hereby undertake and confirm: -

1. I am accepting/allowing my ward _____ to participate in 24hr Hackathon.
2. I don't have any objection for night stay.
3. That the college authorities shall not be in any way responsible/liable for any incident on account during the hackathon
4. That I/we hereby undertake that in case of expulsion of child due to disciplinary action, misconduct or other grounds, the decision of the college authorities shall be final and binding in this regard.
5. That during the stay of the child in the college if he/she is sent home owing to medical reasons, then the college holds no responsibility.

That the above undertaking is voluntary and with our free will and consent.

Date: _____

Place: _____

SPACE APP EVALUATION SHEET.

Space App India Pre-Qualifications – 2024

Evaluation Parameters	Scrutinization Round-1	Scrutinization Round-2	Final Round
IDEATION (5 Marks)			
PRESENTATION (5 Marks)			
TECHNICAL OR NON – TECHNICAL (5 Marks)			
FEASIBILITY (5 Marks)			
REVENUE MODEL (5 Marks)			

Evaluator Name:

Signature:

PERMISSION LETTER TO PRINCIPAL MR.BL RAJU GARU.

No: ACE Launchpad/May/2023-24/

Date: 03-05-2024

Submitted to the Mr. B. L. Raju (Principal) Sir,

Sub.: Request for Permission to conduct a 24 hour Hackathon by NASA Space Apps ~~Mr. K. Sai Kiran~~ Sai Kiran (Founder and Director at Space App India) and his team members on 25/06/2024 (Tuesday) & 26/06/2024(Wednesday), from 9:30 a.m.(25thJune2024) to 12:00 p.m.(26thJune2024).

The ACE Launchpad is delighted to present a 24 hour Hackathon by NASA Space Apps ~~Mr. K. Sai Kiran~~ Sai Kiran (Founder and Director at Space App India) and his team members on 25/06/2024 (Tuesday) & 26/06/2024(Wednesday), from 9:30 a.m. to 12:00 p.m.(26thJune2024).

The Space Apps challenge brings together ideas from students, designers, startups, working professionals, research scholars and domain experts on one common platform. The NASA Space Apps.

Challenge is being organized by Space App India and SUMVN with the support of Department of Science and Technology, Atal Innovation Mission, Startup India, Government of Telangana, Research and Innovation Circle ~~Of Hyderabad, Wipro, Dhruva Space, Outside Digital Media and I-~~ Hub.

AGENDA FOR SPACE APP INDIA HACKATHON 2024

Hackathon Date:

DAY 1:

S.NO SCHEDULE TIMINGS

- 1 Registration Process 10:00 AM – 11:00 AM
- 2 Event Inauguration and Felicitation 11:00 AM – 11:30 AM
- 3 Introduction of NASA Space Apps Challenge 11:30 AM – 12:00 PM
- 4 Team Introduction and Elevator Pitching 12:00 PM – 12:40 PM
- 5 Lunch Break 12:40 PM – 1:30 PM
- 6 Working on ideas 1:30 PM – 2:30 PM
- 7 Talk by Guest 2:30 PM – 3:00 PM
- 8 Mentoring Session 3:00 PM – 5:00 PM
- 9 1st ~~round~~ of Scrutinization 5:00 PM – 6:00 PM
- 10 Break 6:00 PM – 6:30 PM
- 11 Mapping and processing on ideas 6:30 PM – 8:30 PM
- 12 Networking and Prototyping 8:30 PM – 9:30 PM
- 13 Dinner 9:30 PM – 10:30 PM
- 14 Mentoring session 10:30 PM – 1:00 AM

DAY 2:

- 15 Fun Session 1:00 AM – 2:00 AM
- 16 2nd rounds of Scrutinization 2:00 AM – 4:00 AM
- 17 Validation of ideas 4:00 AM – 6:30 AM
- 19 Break 6:30 AM – 7:30 AM
- 18 Final round Scrutinization 7:30 AM – 10:00 AM
- 19 Winners Announcement and closing ceremony 10:00 AM – 11:00 AM

Principal

To:-

All HODs — for faculty circulation and compliance

Copy to:

1. The Chairman, ACE
2. The Director
3. All HOD's

LETTER TO MR. MALLESHAM NSS HEAD FOR VOLUNTEERS

19th June 2024

Mr. Mallesham

NSS Head

ACE Engineering College

Dear Mr. Mallesham,

I hope this letter finds you well. I am writing to inform you about an exciting event taking place at ACE Engineering College. ACE Launchpad is organizing a 24-hour Hackathon on 25th June 2024 to 26th June 2024, aimed at fostering innovation and creativity among our students.

In order to ensure the smooth execution of this event, we are in need of enthusiastic volunteers who can assist us with various tasks throughout the Hackathon. **Considering the commitment and dedication that the NSS team at ACE Engineering College has shown in supporting initiatives like these, we would be grateful if you could provide us with a team of volunteers from your esteemed organization.**

As a token of our appreciation for their invaluable assistance, we will be happy to provide certificates acknowledging their participation and contribution to the success of the event.

I believe that the involvement of NSS volunteers will not only enhance the experience for our participants but also strengthen the bond between our organizations. Your support in this endeavor would be greatly appreciated.

Please feel free to contact me at 9082280670 for any further details or clarification you may require regarding the event or our requirements.

Thank you in advance for considering our request. We look forward to your positive response and collaboration.

Warm regards,

Shravan Ergala

Incubation Team Lead

TOTAL NO OF PARTICIPANTS : 18 TEAMS (80 MEMEBERS)

VOLUNTEERS : FROM ACE 14 INCULUDING TWO ANCHORS.

FROM NASA SPACE APP : 3 MENTORS

EXTERNAL MENTORS : 5 MENTORS

FACULTY MEMBERS FROM ACE : DURGA PRASAD GARU. SREELATHA MAAM, KONDAL RAO SIR.

GROUND STAFF : 5 TO 6 MEMBERS.

TOTAL NUMBER OF TEAMS SELECTED FOR NATIONAL LEVEL - 4 TEAMS.

TEAMS SELECTED FOR NATIONAL LEVEL

Team No	Student Name	Branch	Year
1	Sanjay Kumar	CSD	1st
	A Vipin Chandra	CSD	1st
	A Varun	CSD	1st
	B Srisailam	CSD	1st
	K Sai Siddharath	CSD	1st
2	Hemendra G	ECE	1st
	Praveen Kumar	ECE	1st
	Naveen	ECE	1st
3	Nupur Gupta	CSE	1st
	G Tejashwini	CSE	1st
	G Meghana Reddy	CSE	1st
	BW Pranavika	CSE	1st
	L Gangothri	CSE	1st
4	S Yashwanth	CSM	1st
	Ch Shleshitha	CSM	1st
	M Saikrishna	CSM	1st

