NASA INTERNATIONAL SPACE APPS CHALLENGE, 2019 HACKATHON (INSTITUTE LEVEL) REPORT

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: *21st of September, 2019*

DURATION: 10 Hours.

LOCATION: Narula Institute of Technology, Agarpara, Kolkata.

Faculty Coordinators:

- Dr Dhananjay Kr. Tripathi, BS & HU
- Kaushik Sarkar, ECE

ORGANIZERS:

- Dr Dhananjay Kr. Tripathi, BS & HU
- Kaushik Sarkar, ECE
- Pranab Hazra, ECE
- Susmita Das, EIE
- Goutam Roy, ME
- Swati Barui, ECE
- Soumen Roy, ME
- Chiradeep Ghosh, System Administrator
- Sameer (Electrician)

Organizing Team:
- SANCHARI SAHA
- WASID MASROOR
- SWABHIK RAI
- AMBALIKA GUPTA
- ASHMITA SAHA
- SANKHA SUBHRA SAHA
- SARTAZ AZIZ
- SAREEN BHATTACHARYA
- SASHWATI RANG
- NURIR JAHAN
- SATYAKI GHOSH
- SOHAM BAGCHI
- ANAND THAKUR
- DEBORAJ NATH
- SUKHMAN KAUR
- SWAPTIK BISWAS
- SHAILENDRA BHAGAT
- SUMANA BISWAS
- MRITUNJAYKUMAR
- GAURAV PRASAD
- ARNAB DATTA
- SUBHADEEP CHATTERJEE
- ABHAS CHAKRABORTY

Number of Volunteers: 23

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
- People selected in Pre Qualification will be sent to local level of hackathon where they will be competing with different zonal winners.

ABOUT THE EVENT

PREVIOUS YEAR 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
- Looking globe-ally
- Don't forget the can opener
- Spot that fire
- Hello, Bennu
- 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: 298
NO OF TEAMS REGISTERED: 102

AGENDA OF THE EVENT:

8:30 A.M. - 10.00 A.M.	Gates open for Registration Process

10:00 A.M. - 11:30 A.M.	Introduction of the judges and felicitation followed by an Interactive Talk Show Regarding problems on engineering life, career and beyond.
11:30 A.M. - 2.00 P.M.	Final Stage Prototyping and presentation Build up. Parallelly Judges will visit every table.
2:00 P.M.– 2.30 P.M.	Lunch
2:30P.M. - 3.00 P.M.	Top 9 teams will be chosen for Pitching and demonstration in front of the whole house
3:00 P.M. - 4.30 P.M.	Pitching and demonstration will start. 5 minutes for presentation and 3 minutes for Q/A.
4:30 P.M. - 4:45 P.M.	Coffee break
4:45 P.M. - 5:30 P.M.	Certificate Distribution and winner felicitation
5:30 P.M. - 6:00 P.M.	"Make yourself Industry ready" By Mr. ArijitHajra, CEO, Think Again Lab.

ABOUT THE EVENT (in detail):

NASA INTERNATIONAL SPACE APPS CHALLENGE 2019, HACKATHON(Institute Level) was organized on Sept 21, 2019 from 8:00 a.m. to 7:00 P.M. in the institute premises in association with Thinkagain Educational Services LLP. More than 200 students from different colleges of West Bengal participated in this mega event. Out of that 114 students from NIT and 29 students were from GNIT. The students were from different background viz. technology, Business administration and Computer application from different institutes. Students have shown their problem solving skills by painting (Space, new life, new possibilities), model making, machine learning, internet of things, robotics and AR/VR. Nearly 50 teams participated. The event starts with plantation by the college authorities and founder, co-founder and other authorities of Thinkagain Educational Services LLP. The message is that for our survival earth and its environment is to be survived.

In the opening ceremony, Prof (Dr.) M. R. Kanjilal, Principal welcome every participant. Mrs. Nidhi Singh, Registrar wished success to all the participants. Opening ceremony ended with the vote of thanks by Dr. Dhananjay Kumar Tripathi, In-charge of the Hackathon. Other dignitaries were present in this occasion were Ms. Punita Gaba, Admin Executive, Dr. Sumit Nandi, H.O. D., BS & HU, Ms. Bansari Deb, H.O.D. EIE, Mr. Kaushik Sarkar, In-charge Hackathon and other organizing committee members and volunteers.

The students in teams showcased their talent and were judged by the experts of Thinkagain Lab and the experts(external) deputed by the institute. Three teams are selected by experts of Thinkagain Lab and three teams are selected by external experts deputed by our institute. So, total six(6) teams have got entry into state level NASA INTERNATIONAL SPACE APPS CHALLENGE 2019, HACKATHON. Out of that five teams are from NIT and one is from our sister college GNIT. Successful teams were felicitated.

RESOURCES PROVIDED:
- Printing brochures and posters.
- Lunch
- Tea and snacks.
- Electricity.
- Wi-fi.
- Water supply.
- Faculty incharges.
- Photography.
- Social media support.
- Kits, ID cards and Tags.
- Mementos.
- Certificates.

Results:
- The event was successful with 142 participants.
- Among 47 teams 6 top teams were selected for the next round of the local level of Hackathon.

Feedback and learning points:
Principal:
Prof (Dr) M R Kanjilal
Our students has got good exposure to solve some space related problems faced by NASA organized by Think Again Lab at our college. The innovative ideas and its implementations has been done by the students on the spot. Apart from softwares and hardwares model, students show their ideas using drawing also.

Coordinators:
Dr. Dhananjay K Tripathy and Kaushik Sarkar
The pre qualification Hackathon conducted at our college by Think Again Lab was very useful to our students in exploring their innvotive skill and enhancing their knowledge levels. They get the confidence to participate in the state level hackathon. How to convert an idea to implementation level has been shared among the students.

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.

15/10/19

15/10/19

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Principal
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