

Nalla Malla Reddy Engineering College

Report on HACKATHON conducted on 7th and 8th Feb 2019

To bring out the innovative ideas from engineering college students, a 36 hrs, Hackathon-2019 was organized at Nalla Malla Reddy Engineering College. This event aims at encouraging the young students from various engineering backgrounds to think and build a model on the theme **“Agri-Tech and Water Conservation”**. These models may also solve many problems encountered in agriculture and water conservation. For this mega model building event, 232 registrations (consisting of more than 500 students) were received from engineering colleges in and around Hyderabad. Dr. Divya Nalla, Principal NMREC, Mr. Nisant Nalla, Vice Principal, Prof Ramachandra, IQAC member and Dr. M.N.V. Ramesh Organising Chair inaugurated the event.

Speaking on this occasion, Dr. Divya Nalla, Principal, NMREC, welcomed the students of various colleges to the Hackathon. She advised the students to be innovative and exhibit their skills in this two day programme. She motivated the student participants to continue the tempo even after leaving the college.



Teams of experienced faculty screening the ideas during ideation session.



Dr. Divya Nalla, Principal addressing the participants during the inauguration of Hackathon 2019.

Mr. Nisant Nalla, Vice Principal, NMREC, stated that “Roti, Kapada aur Makaan” was the slogan of all politicians in previous days and “Roti aur Pani” is the present day slogan. He advised all the students to utilize the opportunity to prove their skills and update their knowledge. He stated that the theme “Agri-tech and Water conservation” is an apt theme for the

present generation and thanked the organizers for selecting such a topic.

Prof. Ramachandra, IQAC member, NMREC said that the Hackathon can be called as innovation. People come here to create equipment which is useful to the society. Many types of Hackathons like internal, external, computer based and Agri based are there. We have to conserve water to be utilized for our agricultural purposes. Agriculture and water are the lifelines for human beings. At the end, he wished all the participants to actively exhibit their workable models.

Dr. M.N.V. Ramesh, Organizing Chair, greeted the dignitaries and participants of the event and highlighted the importance of Hackathon-2019. He also announced detailed two day program schedule to the participants. He advised the young innovators to work on feasible, useful and implementable models.

After the inauguration, the organizers formed eight evaluation teams; each team consisting of two experienced faculty for screening the ideas in ideation session. After lunch, the 107 teams selected in the ideation session proceeded to event venue. The ideas included smart irrigation, AI solutions for farmers, automated systematized irrigation system, rainwater harvesting, water bot, pesticide promulgator, GSM pump motor controller, crop management using LOT, water

sprinkling system, smart irrigation with mobile app, wireless soil moisture probe, green house automation, aqua phonics, agro-E-centers, water flow controller, insight into high quality crop production, nitrate level based fish feeding system, auto switch irrigation, pedal operated tap, piezoelectric generator, windmill energy, insects repellent, solar seed filing machine, crop estimation, food grain storage system, water quality monitoring and notification system, mulch and compost, smart sensors in fields, plant moisture sensor using die electric constant, drone irrigation, Agri-protection, prediction of quality of soil etc.



Participants working on ideas

All the teams started working on designing the models. At 5.00 PM snacks and tea were served to the participants and dinner was provided between 8.30 PM-9.30 PM.



Recharging with dinner

During night, the faculty coordinators clarified students' doubts and helped them to build workable models. During this period, 2 reviews (pitching) were conducted by the faculty for proper assessment of the models being built.

On the 2nd day, Mr. S. Achyuta Rajesh, from Infosys; Ms. Roy Sayonee and Ms. G. Priya from Informatics were invited for making an assessment on the innovative models. The panel assessed all the teams and recommended the best four teams.



Arrival of Jury members for validation



Mr. S. Achyuta Rajesh from Infosys is interacting with participants during validation session.

For this event, Dr. Divya Nalla, Mr. S. Achyuta Rajesh, Ms. Roy Sayonee and Ms. G. Priya were invited. Dr. M. N. V. Ramesh, Organizing Chair presented a brief report on the event. He thanked the jury members for accepting the invitation and judging the models. He also thanked Sri Nalla Malla Reddy, Secretary, Nalla Malla Reddy Educational Society and Principal for accepting the Hackathon proposal and giving all facilities in conducting this mega event of innovations. He also thanked J-HUB Director, JNTUH for encouraging in conducting this event.

Mr. Achyuta Rajesh, Chief Guest congratulated the students for their active participation in innovative model building for nation's development. During these two days each one of them learned new things other than curriculum. All the models were innovative, but lacking funding to make it a reality. He said that such events will improve the quality of ideas and every student should try to attend an event like

this Hackathon to bring out new, innovative and cost effective products to the society.

Dr. Divya Nalla presented medals and certificated to the winners.



Winners and guests for valedictory session

Consolation prize was won by K. Dhanush & team from Anurag group of Institutions for their model on 'Agritech', third prize was won by Srinidhi & team from NMREC for their model on "Energy through foot steps", second prize was won by Harshitha & team from CVSR for their

model on 'Multipurpose Agri blot' and first prize was won by Lakshmi Sai Shirisha & team from BVRIT for women for their model on 'Solar seed'.

As a token of respect and a symbol of remembrance, Jury members were honoured with mementos by Principal, NMREC. The student coordinator thanked the Principal, Vice-Principal, HODs, coordinators for their cooperation and coordination in successfully conducting the Hackathon-2019.

HACKTHON 2019

NALLA MALLA REDDY ENGINEERING COLLEGE



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NATIONAL LEVEL HACKATHON 2019

**Free
Registration**

36 Hrs

Hackathon on
7th & 8th Feb 2019

Theme:

Agri-Tech & Water Conservation



Important Dates:

Last Date for Registration: 05th February 2019

Boot Camp: 05th & 06th February 2019

Hackathon on: 07th & 08th February 2019

For Registration & Details visit: www.nmrec.edu.in/hackathon2019

Sub Themes:

- ICT for Agriculture
- Water Saving Technologies
- Water Saving Strategies
- Energy Conservation
- Digital Agriculture
- Smart Innovations in Agriculture
- Rural Labour Resource Management
- Any Other Related Ideas



www.nmrec.edu.in/hackathon2019



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Register now:



Event Venue: Nalla Malla Reddy Engineering College

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Event Patners



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* Participants should carry their own Laptops & Theme relevant components