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Smart India Hardware Hackathon 2018 (SIHH-2018)

NIT, Trichy provides Roadmap for Smart India

Value from waste is the theme for the 35 young innovators at the Grand Finale of the Smart India Hackathon 2018 at NIT, Trichy from 18 – 22 June. The six teams drawn from Nagpur, Coimbatore, Pune, Hyderabad, Udaipur and Chittoor, would be slogging round the clock to come up with a working prototype by 22nd.

Earlier, inaugurating the national event from New Delhi, the HRD Minister, Mr. Prakash Javadekar wished that the participating teams spread across ten nodal centres would provide solutions to the challenges of a digital world. India has missed the industrial revolution; she cannot afford to miss the digital and AI revolutions. This is India's time and she has to make the paradigm shift from Jugaad to real innovation as a habit, he said.

Hon'ble HRD Minister, Shri Prakash Javadekar, New Delhi delivers inaugural address over Video conferencing Right to Left Dr. Samson Mathew, Dean of Student Welfare & Chairman,NIT, Trichy Director, Dr. Mini Shaji Thomas,Shri. N. Ravichandran, Commissioner of Trichy Corporation,Shri A.Palinivel,registrar,NIT,Trichy and Dr C.Natarajan Dean (Planning and Development).

The Hardware Edition of Hackathon 2018 is the largest inter-institutional competition from which the next Google or Texla-like idea will emerge. India is 60th in the world innovation index and counts on its brains trust of creative innovators to break into the top 25 nations by 2023, the minister added.

Dr. Partha P. Chakrabarti, Director, IIT, Kharagpur greeted the contesting teams as Chairman of Hackathon, 2018; Dr. Anand Deshpande, Chairman of Persistent Systems; Professor Anil Sahasrabudhe, Chairman, AICTE; and Mr. R. Subramanyam, Secretary, MHRD felicitated the participants. Dr. Abhay Jere, Organizing Secretary SIHH proposed the vote of thanks.

At the opening of the event, locally, at NIT, Trichy, the Director, Dr. Mini Shaji Thomas, welcoming the gathering highlighted the appropriateness of Trichy as the nodal centre for Waste Management projects as the Corporation has successfully executed several initiatives through public-private participation.

NIT, Trichy Director, Dr. Mini Shaji Thomas, welcoming the gathering from Left to Right Dr. Samson Mathew, Dean of Student Welfare & Chairman,Shri. N. Ravichandran, Commissioner of Trichy Corporation and Dr M. Bhaskar, Professor, Department of Electronics and Communication Engineering, NIT Trichy & Coordinator

In his inaugural address to Deans, Faculty, Students, Industry experts and Mentors, Mr. N. Ravichandran, Commissioner of Trichy Corporation placed on record the ruling of the Supreme Court that made waste management a responsibility of every citizen. Congratulating the finalists, he also spelt out the many projects like biogas from waste and plastic degradation for beneficial outcomes which has been a big revenue earner besides bringing relief to Trichyites.

Shri. N. Ravichandran, Commissioner of Trichy Corporation delivers inagural address at Local center,NIT,Trichy Sitting Left to Right Dr. Samson Mathew, Dean of Student Welfare & Chairman,NIT, Trichy,NIT, Trichy Director, Dr. Mini Shaji Thomas and Dr M. Bhaskar, Professor, Department of Electronics and Communication Engineering, NIT Trichy & Coordinator

Dr. Samson Mathew, Dean of Student Welfare explained the format of the competition and Dr. Bhaskar, the local coordinator of the Hackathon thanked everyone present at the video conferencing centre.

There are 6 teams from different parts of the country with different project ideas will exhibit their prototype working models which will be evaluated by panel of experts from institutions and industry. The following projects are notable like **Automatic drainage cleaning system** by the team LOGISTICS helps clean overflown drainage by electronics based automated system. **Smart drainage cleaning system** by team ELECTRICAL LEVELERS is an electro mechanical cleaning system along with toxic gas sensors is used for sewage cleaning system. This machine cleans the unsafe drainage system automatically, and saves human life. **Self-powered biogas plant with solar tracking** by team LOKMANYA is the project that proposes a solar power assisted biogas plant for extracting clean methane gas from bio waste with expected increase in efficiency up to 10%. **Design and fabrication of garbage picker machine** by team THE GLADIATORS is a garbage collecting machine based only on mechanical system having capacity to collect 20–30 kg of waste at a time. **Smart washbasin** is proposed by team WATER COPS is a project having features like leakage, blockage and over flow detection, and water reusable system. **Slick: Marble slurry and waste plastic brick** by team SLICK which proposes a technology developed in construction material using molten plastic, marble slurry, and sand with the aim of eliminating the use of water and cement. Products like paver blocks, roof tiles, tree guards, kerb stones, garden furniture, and flower pots could be manufactured by this material. All these projects are focused towards 'SWACCH BHARATH' directed by the Government of India.

Each of these projects would be mentored by faculty members of the institute and national level mentors, who would guide them regularly during the course of the 5 days of the hackathon grand finale. The projects would be evaluated by eminent judges at two-levels to finalize the top three winning teams.