**INNERVE – 17**

The **Army Institute of Technology, Pune** is organizing **InNerve (HACKATHON and CODING COMPETITION)** with the an annual initiative to improve the basic requirements of the society and promote innovation and creativity amongst the youth .InNerve aims to celebrate technology in order to transform lives by identifying the top technologists in the country through this event on the themes of current problems of the country to enhance the quality of services in respective domains.

The Competition is open for all the undergraduate students nationwide. It would be hosted on the leading platform **HACKEREARTH** and we expect a great participation of about 1000+ participants through it. A team can have maximum four participants.

With the introduction of the coding competition, Innerve -17 is meant to be more successful than its previous edition.

* **ABOUT THE COLLEGE :-**

Army Institute of Technology with the initiative to produce total quality engineers is one of its kind in the country. This prestigious college has already produced a lot of sparking minds who are now contributing at respectable posts at different firms. It truly justifies its motto “ ONWARD TO GLORY ”.

* **RECENT ACHIEVEMENTS :-**

AITians have proved their mettle in all fields and have also shown their potential in the technological arena. Some of its biggest achievements in this field are mentioned below

* Winners of the Digital Pune hackathon.
* Winners of the Tieto Digital Hack hackathon.
* First Runners Up of the Nasscom TechNgage Hackathon.
* Winners of the ATOS hackathon.
* Second and Third Runners Up at the Rajkot Smart City Hackathon.
* First Runners Up at the IIT BOMBAY hackathon.
* HIGHLIGHTS OF INNERVE – 16 :-

The Open Source Software club of Army Institute of Technology hosted the biggest student organized Hackathon in collaboration with the Computer Society of India (CSI) on the 7th, 8th and 9th of October 2016 and ended on 11th of October 2016 with giving prizes worth INR 6.4 lakh. The competition was hosted by HackerEarth and Venturesity, the platform partners of Innerve. The event was attended by more than 500 students from across the city.

Good Food and Fun games played a major role in keeping the participants awake the whole night. A jam session at night killed every bit of sleep. Valued professionals from different MNC's were invited to deliver talk on current scenario of technology during the Hackathon.

The winning team was Brogrammers from COEP which received INR 30,000, a paid internship in Malaysia , sponsored t-shirts and badges.

* THEMES FOR INNERVE - 17 :-

1. Smart Cities

With a major emphasis on making the Indian smart cities smart, it is important to have effective , innovative and practical ideas.

Traffic Management, Smart Urban Lighting, Waste Management, City Maintenance, Intelligent Transport System, Smart Wi-Fi, Smart Grids, E-Governance and Safety Management are some of the key areas where tremendous amount of work is needed to progress.

1. Augmented and Virtual Reality

The VR and AR theme provides an exploratory environment where disruption, innovation and creative ideas are brought to life. It looks to bring together crowd sourced knowledge for the advancement of virtual and augmented reality and complementary technologies.

1. Crime Monitoring and Prevention

The crime scenes in the country are alarming and something needs to be done in order to maintain the law and order system. Create something that can be used to help the citizens in case of such emergencies. Develop something that can provide some means to deliver the help and the right way to provide help.

1. Production and Purchase

Help the customers in making better buying decisions. You may think of retail chains use technology to be more consumer friendly. Enables retailers to serve their customers better. Recommending products, personalizing the interactions etc.

1. HealthCare and Wellness.

Enhancing quality for using traditional ways for optimal health and happiness. Something revolving around reviving the old traditional ways and remedies, attempting trials and taking reviews of the new ways

1. Citizenship.

Find a problem in the world, even in your own life or community, that affects many people, and then work to solve it. Build a project that could change lives – and change your own in the process, because the team you assemble to bring this vision to life will learn more and challenge themselves more than any of you can yet imagine. Become the change you want to see in the world.

* WHAT WE EXPECT??

We expect some unique, unused and innovative ideas able to bring about the change. The solutions should be theme specific. The ideas should be feasible and based on real world conditions of the country. You are expected to make a prototype to demonstrate the working.

**TECHNICAL EXPECTATIONS**

The participants are allowed to use any platform and any technique to demonstrate their idea. The expected and majorly used techniques are though listed

* ANDROID BASED APPLICATIONS

With the increasing no of android devices android based applications are getting very useful these days. It requires some basic knowledge of android studio, java, XML and some sense of UI designing.

* WEB TECHNOLOGIES

The ease of making and effectiveness of web applications and sites makes web technology a must known tool to the developers. It requires some basic knowledge of the following:

* + HTML
  + CSS
  + Javascript
  + jQuery
  + AngularJs
  + Bootstrap

For server side scripting:

* + - Node.js
    - PHP

For Database:

* + - MySQL
    - MongoDB
* IoT-Internet of Things is recent rise in the field of innovation.
* Blockchain technology.
* Machine Learning and Artificial Intelligence.
* Virtual Reality and augmented reality.
* The participants are free to explore and use the technology that they need for building their prototype.
* CORPORATE BRANDING

Associating your brand with a hackathon like Innerve can improve the public’s perception of your brand and help acquire developer mindshare. Hosting a hackathon or getting involved as a sponsor is an efficient way to deliver more awareness about your company to a prime, target audience – the maker community – and increase brand exposure in the tech world and among people also.

As good sponsors you can also get technical and creative solutions that are present as loopholes in your company.

* RECRUITMENTS

As project based challenges, the hackathons can help the recruiters and companies assess the performance of a candidate in the busy schedules.

With software developers and data scientists in high demand, it’s challenging for companies to gain exposure, garner interest and determine the best talent. Hackathons address both challenges. Companies gain awareness in the developer community and are perceived as “hacker-friendly”. This helps attract top talent and once the candidates apply, they have at least one project under their belt and have proven to be passionate enough about their work to spend a few days with little to no sleep.