GREATER NOIDA INDUSTRIAL
DEVELOPMENT AUTHORITY

**28**th
**FOUNDATION DAY**

Co-Partner:

**SHARDA**
UNIVERSITY
*Beyond Boundaries*

In celebration of the *28*th *Foundation Day of GNIDA,* Sharda University presents

# TECHNOVATION HACKATHON

**26-27 January 2019 | Sharda University Campus**
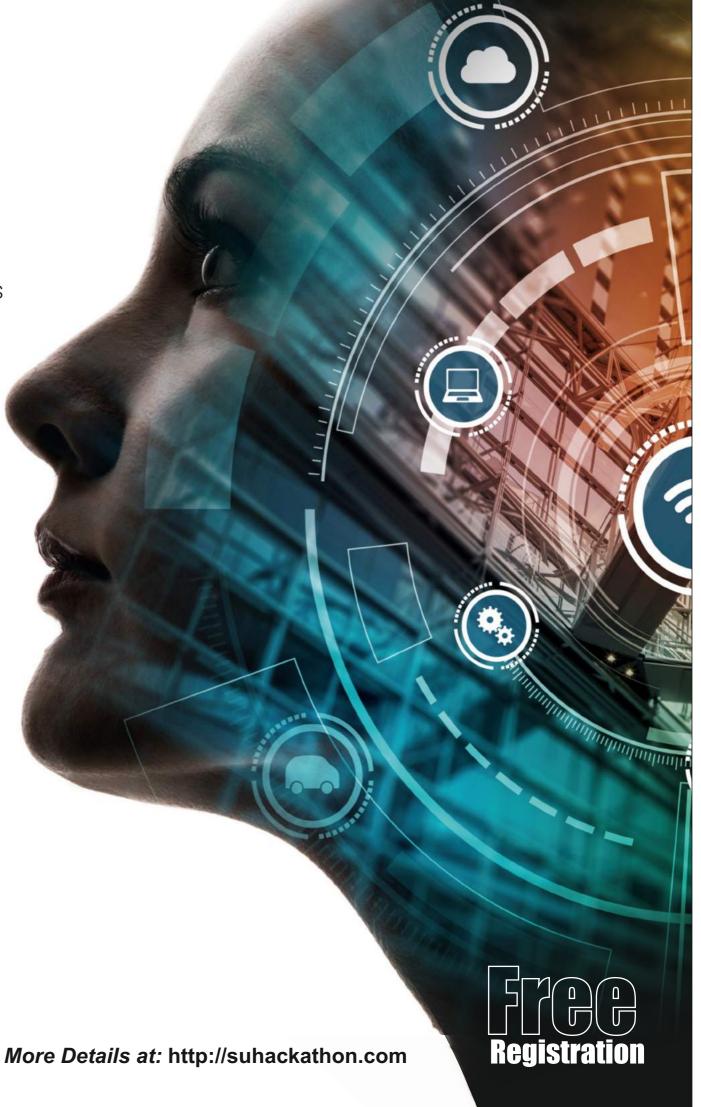
*Register at:* http://suhackathon.com/register

## Prizes worth Rs. 3 lacs

**Themes:**

- **Waste Management**
- **Security & Surveillance**
- **Smart Transportation & Traffic Management**
- **Energy Efficiency & Green Energy**

**Convenor**
**Prof. (Dr.) Parmanand Astya, Dean, SET, Sharda University**

*More Details at:* http://suhackathon.com

**Free Registration**

# SCHOOL OF ENGINEERING & TECHNOLOGY

Awarded
**Best Innovative Engineering School In North**
by Innovative Education Awards 2017

Awarded
**Best Engineering College by National Education**
Awards 2016

School of Engineering & Technology (SET), was established with the vision to provide quality education and produce best quality engineers to work across the globe. It made its beginning as Hindustan Institute of Technology in 2005 which became School of Engineering & Technology and a constituent of Sharda University in 2009. The ambience at SET is inspiring and conducive for acquisition of knowledge and honing of skills. An unfettered spirit of knowledge and exploration, academic integrity and accountability, and promotion of intellectual excellence makes SET distinct from the rest. Students and faculty members of SET, in addition to adding new sights to the technology, are involved in high end research which gives a flavor of International Frontline Technology.

**SHARDA UNIVERSITY:**
PLOT NO. 32, 34, KNOWLEDGE PARK-III GREATER NOIDA
(DELHI-NCR)

**www.sharda.ac.in**
hackathon@sharda.ac.in

*More Details at:* http://suhackathon.com

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## WASTE MANAGEMENT

Modern societies generate a large amount of waste, directly or indirectly, to fulfil its various needs. These include municipal waste, e-waste, construction waste, and packaging waste, etc. Unfortunately, most of this waste is not properly managed leading to environmental, health and aesthetic issues. Such wastes are a burden to the city's economy and well being. Appropriate management and disposal, including energy generation, volume minimization, incorporation into useful products can be viable and environment-friendly option.

*Tentative Problem statement:*
- Waste minimization and reuse
- Improvised and effective plastic waste management at social gatherings
- Alternatives & management of small plastic packaging in daily consumables like sauce, shampoo etc.
- E-waste management
- Agro-waste management
- Municipal waste management

## SECURITY & SURVEILLANCE

Security is one of the prime concerns of any human being and a city's development is dependent on the well-being of its inhabitants. Security & surveillance play a key role in ensuring the prosperity of citizens. The various sub-areas of security & surveillance include (but not limited to) home security, medical emergency, accident & first fast SOS, city transport, security of women & children, tourist support, etc.

*Tentative Problem Statements:*
- City Park Project
- Environmental Stress Warning System
- Viewpoint
- Falcon Event Detection
- Roaming Pollution Monitors
- Saving Energy Costs
- Clean City
- Structural Alerts
- Gas House Security
- Accident Alert
- Stay in Your Lane
- Sharing Information

## SMART TRANSPORTATION & TRAFFIC MANAGEMENT

Greater Noida, a rapidly growing city in Delhi-NCR, has its share of transportation & traffic needs and issues. To ensure its place among the elite cities, smart transportation is a need of the hour for Greater Noida. The citizens must have access to safe, affordable and sustainable transportation systems, including an emphasis on e-mobility, electric vehicles (EVs), mass transport, rapid transport, and self-driving vehicles. Apart from smart transportation, traffic management is a key requirement given the heavy influx of industries and residents expected over the coming decades. The optimal solutions may include mechanized parking, elevated corridors, underpasses, etc.

*Tentative Problem Statements:*
- Traffic management solutions for Pari Chowk
- vehicle management system for Jagat Farm
- Electric vehicles
- Autonomous Vehicles
- Sensor based traffic management
- Rapid/Mass transport

## ENERGY EFFICIENCY & GREEN ENERGY

With the incremental affluence, cities are becoming major sources of pollutants that are causing climate change. A key solution is the management of our energy resources, making the existing sources/network more efficient and switching to greener energy options to the possible extent. India is making a giant leap in renewable energy adoption, esp. the Solar energy. An emerging city like Greater Noida can make its own contribution in this area.

Tentative Problem Statements:
- Net-zero metering
- Charging of communication and entertainment devices at public open places
- Tracking of high power point to get maximum power
- Vehicle Energy Storage system
- Waste-to-energy
- Smart grid
- Charging solutions for Electric vehicles
- Local renewable energy solutions for small-scale systems (e.g., water pumps, houses, small scale industries, etc.)