

## **INNOVEX-2017**

Final year Project Exhibition 'Innovex 2017' presented by the B.E. undergraduate students from all the four departments of Don Bosco Institute of Technology, Mumbai.

This exhibition was organized for the students to showcase their year long effort and help in encouraging open-ended discussions and deliberations for improving the scope of the project and also encourage the students to pitch their ideas & solutions in front of distinguished guests from the Industry, academia and alumni.

### **Computer Department Projects – 2016-17**

#### **2.1 Human Machine Intelligence**

- 2.1.1 Computer Assist for Paralysed using EEG
- 2.1.2 Human Voice to Musical Notes using arduino and digital frequency
- 2.1.3 Intelligent Parking Guidance System
- 2.1.4 Digiassist : Voice for deaf and mute
- 2.1.5 Analysis of Brain Tumour using MRI image
- 2.1.6 Fire detection using cameras and pattern matching with Raspberry Pi
- 2.1.7 DietNama-The Way To Nutritious Diet
- 2.1.8 Intelligent blood bank system

#### **2.2 Geographic Information System**

- 2.2.1 Development project of mumbai-2014-34 Technology for reaching out to citizens
- 2.2.2 GIS based Integrated System for eco-friendly Green services and Products .
- 2.2.3 Automatic customer rescue service for taxi monitoring
- 2.2.4 Analyzing Tree Biodiversity Index using GIS
- 2.2.5 Near real time air pollution monitoring and analysis using cloud based GIS .
- 2.2.6 Mapping of Mangrove Species to climate Change

#### **Data Analytics**

- 2.3.1 Equitable Piped Water Supply In Chikotra Valley
- 2.3.2 Endorse Your Brand : A tool towards Self Development and Agile Employment
- 2.3.3 Integrated Water Management System
- 2.3.4 Improved attendance system with integration into current infrastructure
- 2.3.5 Live Data based Recommendation System for ecommerce websites using Hadoop
- 2.3.6 Sensing Systems for Chilli Crop Disease Dynamics and Prediction
- 2.3.7 Lifespan Monitoring of Buildings through Data Analytics
- 2.3.8 IOT Based Medi-assist System
- 2.4.9 GiveTap: A Payment Application on NFC enabled mobile phones.

#### **Networking**

- 2.4.1 Wireless ad hoc network for distributed file system

## WINNERS OF INNOVEX 2016 - 17 CONTEST

### **Rank-1**

**Computer Assist for Paralysed using EEG** - Akash Gund, Siddhant Reddy, Bronson Mendonca  
Guides: Ms. Sejal Chopra and Ms. Kalpita Wagaskar

### **Rank-2**

**Near real time air pollution monitoring and analysis using cloud based GIS** - Chinmay Gadgil, Mitesh Khare, Glendon Rodrigues  
Guides: Ms. Sana Shaikh and Ms. Nilakshi Joshi

### **Rank-3**

**Digiassist : Voice for deaf and mute** - Tejaswini Koilakuntla, Sonam M.Mutalik Desai, Ramya Ramakrishnan  
Guide: Ms. Dipti Jadhav



