DON BOSCO INSTITUTE OF TECHNOLOGY

Department: Computer & IT Engineering

Event heading: e-Innovex 2020 and Closing Ceremony Phase-I

Date: 30-31 May & 7 June, 2020

Section: Co-curricular Activities – Events – Technical – Innovex

Content:

e-INNOVEX 2020 PHASE-I REPORT

        On the lines of DBIT's vision of producing employable engineers who can ideate and design solutions for problems relevant to both the society and industry, We conducted the FOURTH edition of the Final year Project Exhibition **'Innovex 2020'** presented by the B.E. undergraduate students.

Innovex has been used as a platform for the students to showcase their yearlong effort and help in encouraging open-ended discussions and deliberations for improving the scope of the project. It also encourages the students to pitch their ideas & solutions in front of the judges from the Industry, Academia and Alumni. Due to the COVID-19 Pandemic across the country, we were on the verge of losing this opportunity. However, our students and faculty figured out a way to use technology to give the BE students the experience of displaying their project to industry experts, faculty and peers, albeit in a virtual world. Instead of having Innovex in physical space this time we hosted it virtually on **Our Learning Management System - Moodle.** Departments, we are able to plan Innovex phase wise for the year 2020.

Despite of the lockdown situation, Innovex will be done a little differently this time. Instead of having exhibition in physical space we will have it virtually by hosting it on **our Learning Management System - Moodle**. We have created a separate course per department on Moodle for this purpose. All the project demonstration videos along with the project posters will be posted on the course which can be viewed by judges and other visitors. It would be followed by live **Q&A Session** through video calling between the Judges and Students. For other visitors, **Discussion forum on Moodle** will be used for Q&A.

A special Award will be given for **"Viewer's Choice Project"** which would be selected based on Feedback from all the Students.

The Phase-I of exhibition was scheduled on 30th & 31st May 2020 (Saturday & Sunday).

In the Phase-I, the projects from Computer & IT departments were exhibited. In the Phase-II, we plan to exhibit projects from EXTC & Mechanical Departments on 22 and 23 June, 2020.

After the successful exhibit of projects, we hosted the Closing Ceremony of Phase-I for e-Innovex, 2020 that was be streamed on YouTube on 7 June, 2020. To watch the Closing Ceremony with the Announcement of Winners of Innovex 2020, kindly click on this link - https://youtu.be/ftCBmijDQmo

COMPUTER DEPARTMENT PROJECTS FOR ACADEMIC YEAR 2019-20

1. Counterfeit drug tracking using Block Chain
2. Solid Waste Management: Green Index Calculation and Optimization
3. QUANTTA- Quantum Travelling Tournament Problem using AI
4. Crowd Density Estimation Approach using GPS mobility for its Dynamics and Prediction
5. Safety App: Crime Prediction using GIS
6. Image Forgery: Detection of Manipulated images using Artificial intelligence
7. Class attendance management system with face recognition
8. Student Performance Analysis using Machine Learning
9. Cognitive Engagement Analysis in a Classroom Environment using EI
10. Validation and Optimization of Web Application by Vulnerability Detection
11. Economical Analysis of Crop Suitability for Farmland
12. Dynamic Review Modeling & Recommendation of Tourism Data
13. Timetable Generator
14. Chavi- A Blockchain-based Chain of Custody for Digital Key Evidence Management
15. Outfit Selection using Colour Matching Application And Image Processing
16. A College Recommendation System for Individuals Applying for Post Graduate Courses
17. Real Time Pothole Detection
18. Waste Segregation using Smart Bin & Optimization of Collection Routes
19. Automatic Detection and Classification of Retinal Lesions in Diabetic Retinopathy using Deep Learning
20. Smart Shopping Cart with Automated Billing
21. In-memory Database System for Information Retrieval
22. Automated System for Source Code Plagiarism Detection
23. Automated Resume Evaluation System using NLP
24. warsol - ML based Water Retention Prediction in Solanum lycopersicum Plant

WINNERS OF INNOVEX 2020 FOR COMPUTER DEPARTMENT

Rank	Project Title	Project Guide	Student Team
1	Crowd Density Estimation Approach using GPS mobility for its Dynamics and Prediction	Dr. Amiya Kumar Tripathy	Vignesh Sundaram, Aditya Pawar and Ram Deshmukh
2	Waste Segregation using Smart Bin & Optimization of Collection Routes	Ms. Sejal Chopra	Shivam Baikerikar, Rosy Caunder and Jacklin Gounder
3	Chavi - A Blockchain-based Chain of Custody for Digital Key Evidence Management	Ms. Shafaque Syed	Sagar Rao, Shalomi Fernandes and Samruddhi Raorane
Viewer's Choice Project Award	Safety App : Crime Prediction using GIS	Ms. Sana Shaikh & Dr. Amiya Kumar Tripathy	Atharva Deshmukh, Saurabh Banka and Sean D'cruz
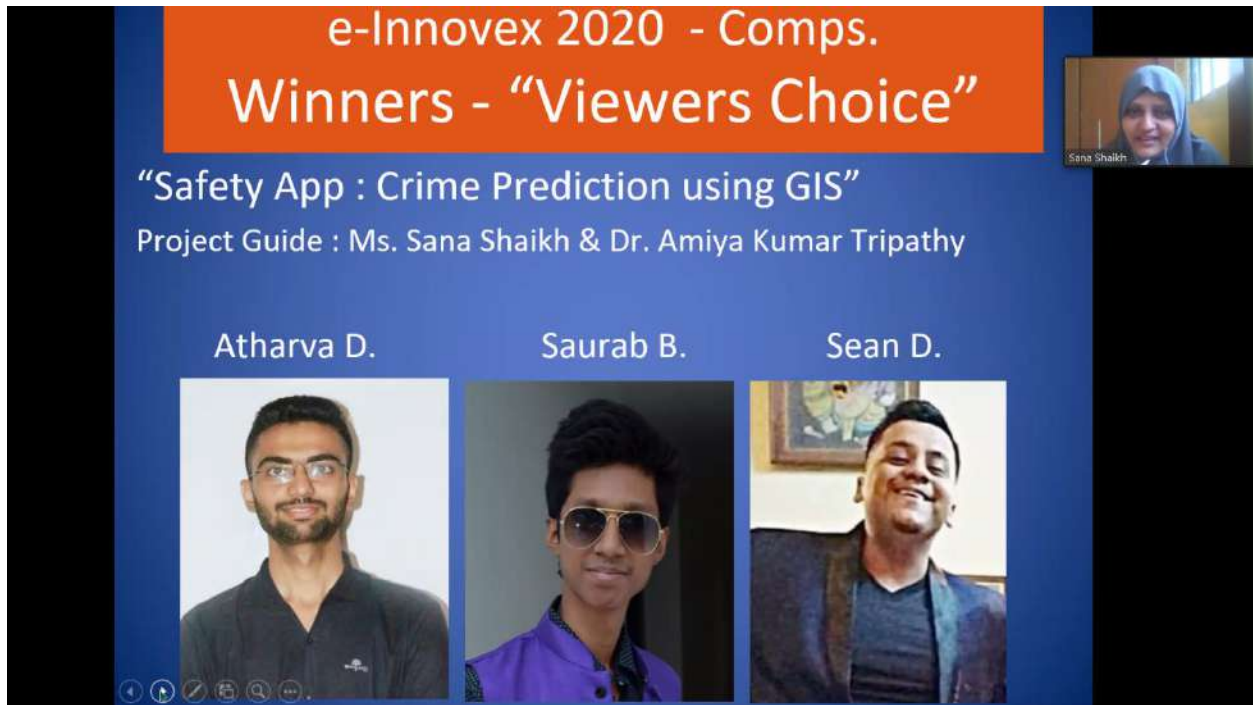
Judges for Computer Department:

1. Mr. Atul Gandre (Tata Consultancy Services)
2. Mr. Mustafa Fatakdawala (Tata Consultancy Services)

Total Number of Visitors on Moodle Course on Computer Department: 663

**Feedback from the Visitors of Computer Department (Faculty Visitors)**

Quality of Projects
32 responses

- Good
- Average
- Needs Improvement

93.8%
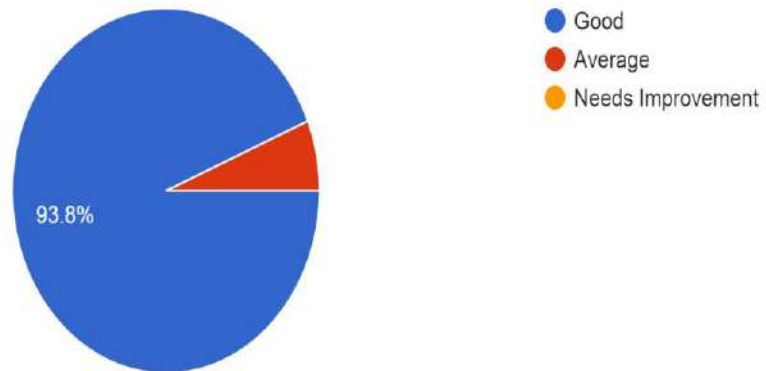
Level of Innovation & Design
32 responses

- Excellent
- Good
- Average

53.1%

43.8%
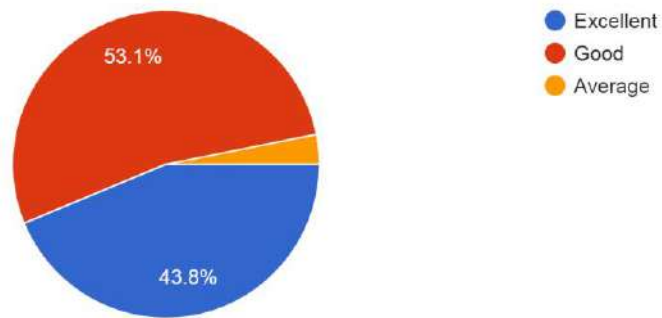
IT DEPARTMENT PROJECTS FOR ACADEMIC YEAR 2019-20

1. Traffic Signal Duration Control Using Deep Learning
2. Expenses Management Application
3. Decision Support System For Crop Selection
4. Single Image Super Resolution
5. Prevention Of Intellectual Theft using Blockchain
6. E-Certificate Generator
7. Karyotyping Using Deep Learning and Image Processing
8. Waste Monitoring System
9. Smart Shopping Cart
10. Crowd Sourcing For School GIS
11. GIS Based Decision Support System For e-Waste Management
12. Pregnancy Tracker
13. Watershed Delineation & Modelling For Osmanbad District
14. Intrusion Detection System Using Neural Networks
15. Cloth Pattern Recognition   & Retrieval System
16. The Vision- A Smart Technology Helmet
17. Wifi Deauthenticator & Detector
18. Able The Disabled
19. Determining Location Of Rehab Centres Through Spatial Data Analysis
20. Health Chain
21. MedLog
22. Assistive Tool For Blind People
23. Analysis Of Human Behavior In Online Shopping.
24. Essay Grading System
25. Smart Door Locking Mechanism
26. Remote Sensing For Water Resources Management
27. Document Management System For LORs

WINNERS OF INNOVEX 2020 FOR IT DEPARTMENT

Rank	Project Title	Project Guide	Student Team
1	Traffic signal duration control using deep learning	Ms. Sunantha Krishnan	Pratik Nerurkar, Calden Rodrigue and JohnAnand B.
2	Decision support system for crop selection"	Mr. Nilesh Gavathe	Mithilesh Chaudhari, Alok Pandey and Adish Pathare
3	Single Image Super Resolution	Mr. Prasad Padalkar	Chaitanyakrishna, Kyle Lobo and Roshan James
Viewer's Choice Project Award	Decision support system for crop selection"	Mr. Nilesh Gavathe	Mithilesh Chaudhari, Alok Pandey and Adish Pathare

Judges for IT Department:

1. Mr. Satish Sugavanam (Quinnox)
2. Mr. Mayer Singh (Quinnox)
3. Mr. Ashish Chaudhari (Datamatics Global Services Limited)

Total Number of Visitors on Moodle Course on Computer Department: 533

Feedback from the Visitors of IT Department (Faculty Visitors)

Quality of Projects
18 responses

- Good
- Average
- Needs Improvement

11.1%

88.9%
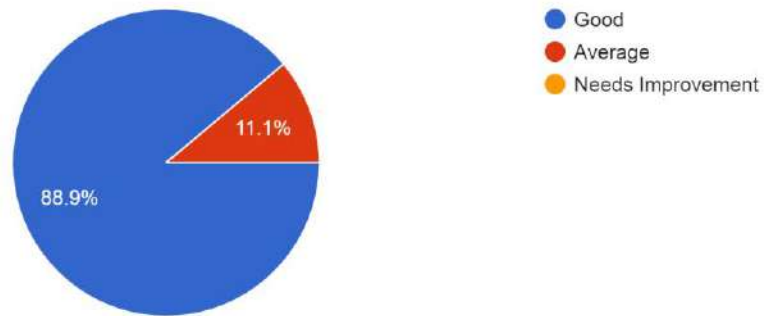
Level of Innovation & Design
18 responses
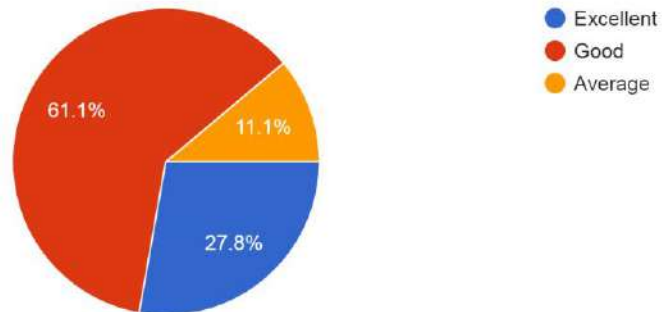
- Excellent
- Good
- Average
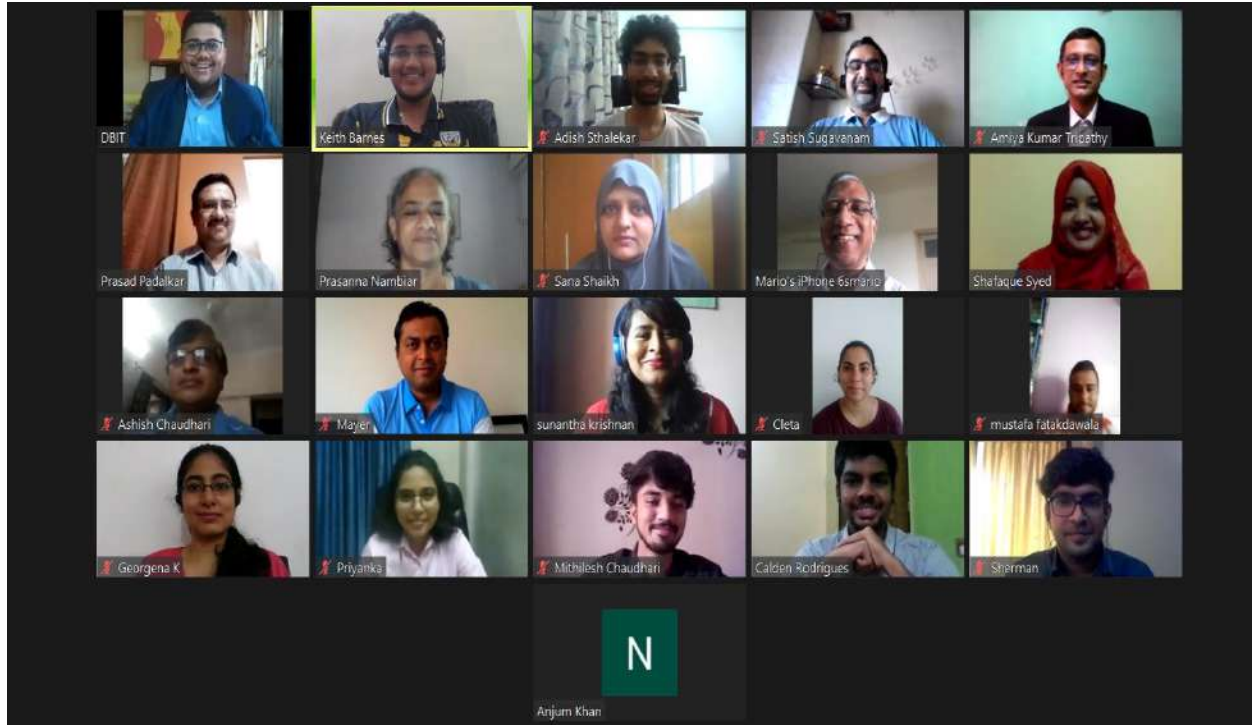
61.1%

11.1%

27.8%

e-Innovex Phase-I Closing Ceremony

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e-Innovex Phase-I Closing Ceremony

Mr. Ashish Chaudhari
Manager - Information Management Practice
Datamatics Global Services Ltd
(Judge for I.T. Department Projects)

Mr. Satish Sugavanam
(Vice President-Quinnox, Inc.)
(Judge for I.T. Department Projects)

e-Innovex Phase-I Closing Ceremony

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