Introduction

Model Club, BIT Sindri is organizing an e-hackathon from 4th of August to 6th August, 2020.With COVID-19 creating a global crisis with gloom and doom trying to creep into our lives, mankind waits with a bated breath for the scent of rejuvenation and the freshness of creativity. "Nav Ujjwal e-innovation Hackathon" is an attempt in the direction to rekindle the flame of innovation and to present the cognizant minds of the nation with an opportunity to probe into some of the intricate real-life problems and to come up with their new-fangled solutions.

Model Club(https://modelclubbit.com/) is an attempt to manifest the technical mind set, personality development and success stories of this Premier Technical Institution of Jharkhand. This club is the only technical club established by the BIT administration in 1976 for conducting technical activities for the young technocrats of our college. After its establishment, in early seventies this club is on the way to scaling new heights every year continuously by organizing various technical events. Now this organization is getting greater heights under the subtle guidance of our Patron, Honourable Director sir Prof (Dr.) D.K Singh and Professor In-charge, Dr. R.P. Gupta.

OUR PATRON

Prof. (Dr.) D.K. Singh
Director, B.I.T Sindri

OUR PROFESSOR IN-CHARGE

Dr. R.P. Gupta
Professor In-Charge, Model Club

Event Participation and involvement

This event has got the association of Siemens, COE, B.I.T Sindri and is powered by a European Problem-solving Platform Company "Event Tornado".

The registration for this hackathon started on 16th of July and last date was 28th of July 2020. This event got a great participation of around 514 Registrations (Teams -181) from various premier institute of India.

The Institutes such as IIT Roorkee, IIT Kharagpur, IIT Bhilai, IIM Ahmedabad, IIM Ranchi, IIM Bangalore, NIT Patna, NIT Raipur, NIT Rourkela, Jadavpur University, IIIT Ranchi, IITU BHU, IIM Indore, BIT Mesra, IIIT Bhopal etc is going to take part in this event.

About 80 Participants from BIT Sindri will be competing with these Premier institutes. This will be surely a healthy competition for all the students.

Timeline for the Event(https://www.facebook.com/modelclubbit/**)**

About the Problem Statements (Innovation Challenges)

PROBLEM STATEMENTS

1. Save the Planet

I. Dry and Wet waste management II. Plastic pollution in oceans III. Groundwater contamination IV. Excessive use of electronic signal equipment affects the life of birds, animals, and humans.

2. COVID-19

I. Chemical-free, non-toxic sanitization solutions II. Non-contact and efficient delivery solutions III. Social distancing instruments - Educational Institutes Reopen IV. Rectify the problem of vapor formation on the spectacles while wearing the mask

3. IoT based Industrial Problems

I. Drone /Robot-based system for cleaning railway tracks II. Road traffic management III. The solution to water wastage IV. Road accident prevention

4. Being Human

I. Human scavenging of potholes II. Technology to help vulnerable sex workers to save themselves from sexually transmitted diseases. III. Ease of accessibility and the management of the water in villages IV. Technology to monitor the friendly interaction between humans and animals in zoos

5. Welfare via Augmented Reality

I. Educational Solutions for better understanding II. Application in Defence Industries and factories III. Applied for the benefit of disabled people. IV. Miscellaneous problems

6. Differently-abled People

I. Social distancing measures. II. Exams and Education III. Sanitation measures IV. Miscellaneous problems

7.Public Health and Sex Education

I. Monitoring mental and physical health II. Technology to help women with birth spacing III. Managing the massive volumes of patient-related data IV. Disposal Sanitary pads

8. Agriculture and Food Security

I. Live to monitor crops and soil health II. Alert farmers of the outbreak of pests and diseases. III. Accurate weather information for optimizing irrigation IV. Improving data collection processes to address issues of food security.

9. Disaster and Hazard Management

I. Flood Management II. Earthquake Management III. Problems related to building constructions IV. Chemical factories disaster management

10. Nav Ujjwal Bharat Innovation

"The only way to discover the limits of the possible is to go beyond them into the impossible" – Arthur C. Clarke

To innovate, all one needs is to observe. Look around; you'll see millions of problems the country faces. The first step to solve is to find the underlying issues. This domain is all about thinking outside the box and solving the issues the country faces that have been overlooked by the organizers of the Hackathon. The participants can highlight any specific problem observed in our country or around the globe and give their developed technological/applied science solutions.

Jury (The Judgement Panel): Our Esteemed Professors, and Industry Expert.

Model Club is extremely proud to announce the judges for the National Level Event "Nav Ujjwal e-innovation Hackathon".

The various Professors , Assistant Professors from the department of **CSE&IT , ECE, MECHANICAL ENGINEERING, ELECTRICAL ENGINEERING** along with the Industry Experts from the companies such as **BASF, SAP, AMAZON, HAL, Boeing Aeroplane , CIL, GOOGLE, L&T, SAIL, DRDO, ISRO, INFOSYS, HCL, Yamaha ,TATA MOTORS, IBM, Flipkart, Uber etc.** will be judging the event.

MODEL CLUB PRESENTS
NAV UJJWAL E-INNOVATION HACKATHON
नव उज्जवल e-innovation Hackathon

JUDGE UNVEIL
August 4-6

Mr. Vivek Gupta
Software Engineer Google

Mr. Vinay Singh
BASF, Ex- SAP
Speaker

Dr. S.C. Dutta
Head of Computer Science
and Engineering Department

Mr. Ashwini Kumar
SDE, Amazon

Mr. Dinesh Prabhakar
Assistant Professor of Information
Technology Department

Mr. Kaushal Prashad Nayak
Full Stack Developer
Boeing Aeroplane Company

Mr. Sanket Shikhar
Vice President
DATA TRAINED

Mr. Gaurav Singh
Assistant Manager at
Steel Authority of India Limited

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August 4-6

Mr. Arun Mandal
Physical Design Engineer
Synapse Design Inc.

Prof. Imtiyaaz Ahmed
Head of Electronics & Communication
Engineering Department

Mr. Ravi Singh Choudhary
Director
Sampurn Krishi Utthaan Foundation

Dr. Nagesh
SRF at Semiconductor Laboratories
ISRO PhD from ISM

Mr. Rahul Shrivastava
Senior Consultant
Infosys Consulting

Mr. Anuj Pandey
Assistant Professor
Electrical Engineering Department

Mrs. pooja Sharma
Assistant Professor
Information Technology Engineering Department

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JUDGE UNVEIL
August 4-6

Ms. Mansi Priya
Data Scientist
Yamaha Motors Solutions Pvt. Ltd.

Mr. Adarsh Kumar
UPES ,Dehradun-Professor

Mr. Ashutosh Kumar
Chief Executive Officer
Asian Oilfield Services Limited

Mr. Rarvindra Shah
GM, Tata Motors

Mr. Amar Prakash Sinha
Associate Professor
Electronics & Communication
Engineering Department

Mr. Arvind Kumar
Assistant Professor
Electronics & Communication
Engineering Department

Mrs. Rupali Sharma
Assistant Professor
Information Technology Engineering Department

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JUDGE UNVEIL
August 4-6

Mr. Dhawal Thacker
Ex-L&T Engineer

Mr. Avinash kumar Sinha
Senior Project Manager, Infosys

Mr. Manjeet Kumar
Sr. Associate HR at Hero FinCorp

Dr. Sudhir Kumar Kashyap
Senior Principal Scientist at CSIR

Mr. Praveen Kumar
Assistant Professor
Electrical Engineering Department

Dr. Amit Kumar Choudhary
Assistant Professor
Electrical Engineering Department

Mr. Tapan Nayak
Assistant Professor
Computer Science and Engineering Department

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