DEPARTMENT OF MECHANICAL ENGINEERING

BEST PROJCTS

1. **ISIE Indian Karting Race**

The Imperial Society of Innovative Engineers (ISIE) conducts the Indian Karting Race annually ensuring participation of minimum 20 teams from across the nation. The event is held for a span of 7 days.

Team Motorheads represented BMS Institute of Technology and Management, Yelahanka at the Indian Karting Race organized by Imperial Society of Innovative Engineers (ISIE) in association with the Federation of Motorsports Club of India (FMSCI).

The team cleared the "technical inspection" round and "brake test" round at first attempt with excellent performance in its first attempt and BMSIT&M has been shortlisted for the final round which is held at Radharaman Institute of Technology and Sciences between 21st Jan to 23rd Jan 2020 and from 24th to 25th Jan 2020 at **RPM Go Karting, Bhopal, Madhya Pradesh India.**

2. REEV (Range Extended Electric Vehicle) Vehicle

REEV (Range Extended Electric Vehicle) is a National Level Event in which students of Mechanical Engineering Department, BMSIT have designed and fabricated a Series Hybrid Urban Mobility Vehicle. This event was conducted by 'Society of Automotive Engineers' (SAE) India along with General Motors TCI and TVS Motor Company.
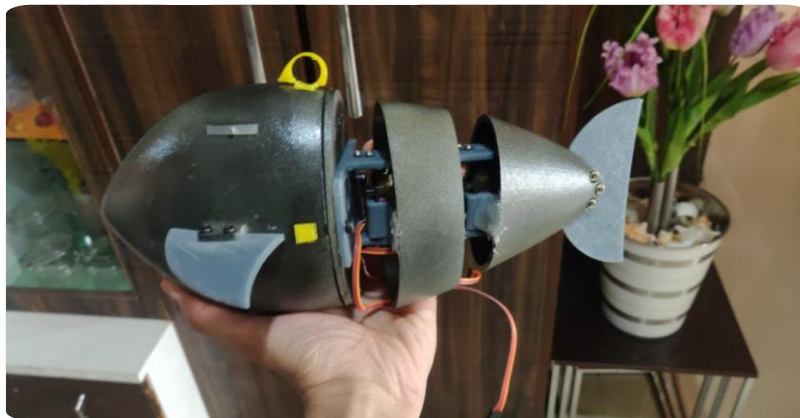
It is set to be a game-changing student event in which students from various fields form an industry ready team and mimic an OEM level engagement. This is to provide excellent exposure to students, starting from Design and Development, to put onto the road an Urban Mobility solution. The event was held at Meko Kartopia, Bengaluru on the 7th & 8th of February 2020.

The team was led by Captain Ashutosh Mishra and Vice-Captain Vivek Lalvani, the drivers were Chirayu Urs and Vivek Lalwani. It was an interdisciplinary project with students from the Mechanical Engineering, Electrical Engineering, Electronics & Communication Engineering and taking part in it.

3. e-Yantra Robotics Competition

E-Yantra Robotic Competition is India's largest Robotics Competition held at IIT Bombay, Powai, in which students of Mechanical Engineering Department, BMSIT have been taken part in the event.

The Student of Mechanical Engineering Department developed a Biomimetic Robotic Fish along with integrated PCBs and communication and presented in IIT Bombay. This Biomimetic Robotic Fish qualified for stage 2 and shortlisted for finals.

3D printed prototype

4. e Yantra Competition at PSG Tech, Coimbatore

e-Yantra is a nationwide initiative to provide students with a platform to solve some of the pressing problems we face in our daily lives, and thus inculcate a culture of product innovation and a mindset of problem-solving. e-Yantra Competition is India's largest Competition held at PSG College of Technology, Coimbatore, Tamil Nadu, in which students of Mechanical Engineering Department, BMSIT have been taken part in the competition. The Student of Mechanical Engineering Department developed a hydraulically actuated Autonomous Nurse. The students have cleared the round and shortlisted for Finals.

This is the only team to have qualified from Karnataka held at PSG Tech, Coimbatore and also won cash prize along with a drone for successful demonstration of prototype.

5. e Yantra National Finals (Virtual)

The final round of the competition was suppose to be held at IIT Bombay in personal but due to COVID the final rounds happened through virtual mode through Cisco Webex. The students had demonstrated the product (Hydraulically actuated Autonomous Nurse) to the panelist.
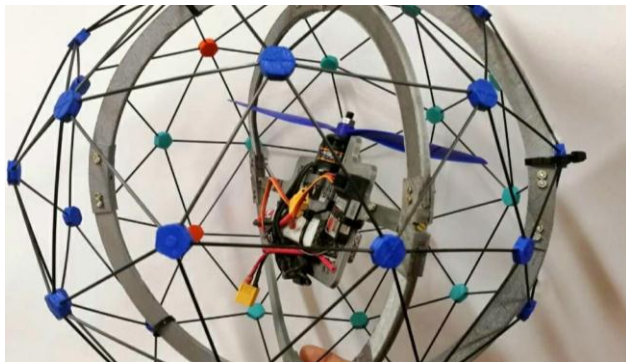

6. Med Bot

In the wake of the COVID-19 crisis in our country and across the world, healthcare workers have been worst affected due to the nature of their profession. My team and I were determined to use our skills to help the healthcare workers on the front line. In this regard, we have developed a semi-autonomous robot with virtual telepresence capabilities in order to prevent non-essential contact between the healthcare workers and COVID-19 +ve patients in hospital isolation wards. The main functionality of this robot is to allow remote communication between patients and the doctor and to facilitate food & essentials delivery with semi-autonomous capabilities. Also to prevent all forms of non-essential contact between healthcare workers and COVID-19 affected patients. The robot is currently being deployed in their COVID-19 ward at Kodagu Insitute of Medical Sciences (KIMS), Karnataka.

7. Spherical Drone

The Student of Mechanical Engineering Department developed a Spherical Drone as a part of PBL and been awarded at the institute level. The same was presented a paper in the National Level IEEE Student Conference (Kagada 2019) and also presented paper titled "Modelling, Analysis and Fabrication of a Single Propeller Multi-Terrain Spherical Drone". This team has won 1st Place among 100+ teams at Kagada 2019 held at UVCE, Bengaluru on 21st October 2019.

8. New India Challenge organized by Ministry of MSME, Govt. of India

The Ministry of MSME hosted "Idea for New India" competition throughout the country in order to attract quality ideas for Start-ups. The Ministry of MSME has invited applications from Student Innovators, Start-ups, individual and MSMEs to support their effort to develop their idea to a proof of concept. The students of ME dept. (**Mr. Sanjay N & his team and Anilkumar & his team**) have been taken part in the competition. The selected ideas will be provided Grant in Aid support of upto Rs. 15 lakhs per approved idea, through the business Incubators.

Ministry of Micro,
Small & Medium Enterprises
Government of India

Ideas for New India
Support for Entrepreneurial and Managerial Development of MSMEs through Incubators

INVITING BUSINESS IDEAS FOR NEW INDIA
JOIN THE CHALLENGE FOR CREATING SOLUTIONS FOR NEW INDIA

What will Incubatees get?

Selected ideas will get,

- Working Space, Enterprise Support and Incubation for the idea in the HostIncubator
- Grant in Aid to the Host Incubator for developing and nurturing the selected idea up to Rs.15.00 lakhs

Eligibility of Incubatees

- The applicant should be ready to set up or already have a small start up/business.
- The applicant should be able to articulate the business model & conduct the entrepreneurial opportunity.

Last Date to Apply for the Challenge is 20th February 2020

APPLY ONLINE ON
https://innovate.mygov.in/ideas-2020

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INDIA
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Ministry of MSME : Enabling Sustainable Competitiveness for Indian MSMEs

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