

NEW HORIZON COLLEGE OF ENGINEERING - MTS

Event name: **Marine Exploration - Build Your Own ROV**

Event Date: 16th April 2019

Time: 9.50 AM-5.00 PM

Event Venue: AEC Lab, ECE Dept. and Highway and Concrete Lab, Civil Dept.

Co-coordinators

1. Dr. Sanjeev Sharma, Professor and Head, ECE, New Horizon College of Engineering
2. Mr. Naveen Gowda , Assistant professor, ECE, MTS Faculty Coordinator, New Horizon College of Engineering
3. Dr. Nisha K C R, Professor, ECE, and Branch Counselor, New Horizon College of Engineering MTS Student Branch

Marine Exploration - Build Your Own ROV

The day started with curious minds from various departments, to learn how to build your own Remotely Operable Underwater Vehicle or ROV. The workshop was conducted by PCC club in association with Marine Technology Society. Around 25 students became a part of this learning experience conducted by MTS chapter. The workshop commenced at around 9:50 a.m. and went up to 5 p.m.



The workshop started with the core members of the MTS and PCC club giving a brief presentation on ROVs, such as what an ROV is, its history, the various applications of ROVs, the various types and categories of ROVs, and going over the designing process of ROVs in detail, as the participants were building their own ROVs.

The friendly and interactive nature of the session enabled participants to pose their queries and expand their knowledge on ROVs and come up with final year projects. Participants were briefed on what challenges the designers would face when constructing such an ROV and how to overcome those challenges.

The participants were then led on to the hands-on part of the workshop, where they were guided step by step in building their own ROV. And although there were a few stumbling blocks, everyone successfully built their ROV.



Then they took their ROVs to the Highway and Concrete Lab in the Civil Department, to test them in the tank. The participants took note of what improvements they could make to their ROVs for the upcoming Jalayantra Event at Tech Horizon 2019.



These testing and demonstrations have been picked up to show the versatile uses of an ROV. The day ended on with a good note with participants requesting more guidance of their journey with learning about Underwater Autonomous Vehicles.

Conclusion:

The Remotely Operable Vehicles were demonstrated, enabling students to have hands-on experience on how to build their own ROVs.