

**TITLE OF ACTIVITY: Remotely Operated Underwater Vehicle**

**SDG Description:** 6, 8,9

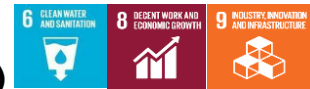
**Venue:** Electrical Engineering Department NUTECH

**Mode:** Physical

**Date:** During year 2024

**Duration:** One Year

**(Logo)**



**Brief Explanation of the Activity:**

Remotely Operated Underwater Vehicles, in other words, the ROVs, have become a fundamental element of modern underwater exploration, fore fronting the previously unimaginable access to the ocean or submerged environments. Our abstract will describe our comprehensive report with the overview of abstract to the complex designs, possibilities and versatility, operational principles, applications and challenges, and future trends of ROVs. Firstly, the report will describe the components and design of ROVs, outlining the primary advantages and different missions underwater. Secondly, our readers will acquire an insight into the operational principles of ROVs including the remote control, communication systems, and operator’s interface. Beyond theoretical frameworks, the report explores the wide range of applications in which ROVs are essential.

**Pictorial Evidence:**

