



VIT-AP
UNIVERSITY

Apply Knowledge. Improve Life!®

DESIGN, MODELLING AND CONTROL OF UNDERWATER ROBOTS

(A Value Added Course)

offered by

**School of Electronics Engineering
(SENSE)**

An autonomous underwater robot is a robot that travels underwater without requiring intervention of human being. AUVs constitute part of a larger group of undersea systems known as unmanned underwater vehicles, a classification that includes non-autonomous remotely operated underwater robots which is controlled and powered from the surface by an operator/pilot via an umbilical or using remote control. According to oceanographic survey, it is observed that most of the earth's surface which is covered by water is unexplored. Hence, significant steps have been carried out across the world to develop autonomous underwater robots in order to explore the oceanic environment by deploying various autonomous underwater robots.



Course Benefits:

- Learn the basics of underwater vehicles and its potential applications such as in defence, marine, and oceanographic fields.
- Understand the design aspects and requirements for Underwater robots
- Analysis of the mathematical modelling of Underwater Robots from kinematics and dynamics
- Design of various path and motion planning techniques for smooth maneuvering of Underwater robot

Every Monday 11 AM to 1 PM
commence from 28-02-2022

Certificate after completion of course