

Design and Develop Autonomous Underwater Vehicle (AUV)

General Sir John Kotelawala Defence University (KDU), is the pioneer defence university in Sri Lanka committed to inculcating research culture among young undergraduates to achieve millennium sustainable goals. With understanding of the importance of the role played by Autonomous Underwater Vehicles in sea exploration, a team of KDU researchers led by Commodore (E) MCP Dissanayake MSc (NA) (Australia), BTech Mech Eng, CEng(UK), CEng(India), MIE(India), AMIE(SL) initiated a new research project to design and develop an AUV collaborating with Sri Lanka Navy. The objectives of the project are two-fold; (1) To develop a mechanism for RIP current data collection and (2) underwater exploration absence of a diver.

Under the first phase of the project AUV, KDU Version 1 was successfully designed and developed by the research team. Further, the new model has successfully proven its performance during stability and manoeuvrability testing. As the second phase, researchers are further researching on to improve the control system, introducing RIP current data collection mechanism and live video streaming during shallow water explorations.

Further, the research conducted was presented during the 15th KDU, International Research Conference (IRC) and appreciated the timely work by professionals in the field.

