

	Implementation schedule	Physically/ Remotely	Contact hours	Autonomous work for students (max hours)	Learning outcomes
Activity 1	System Assembly and Start-Up	Remotely	3	8	Learning to assemble and commission RAS components
Activity 2	Seawater Preparation and Testing	Remotely	2	6	Preparing artificial seawater and monitoring its quality
Activity 3	Biofilter Establishment	Remotely	3	5	Developing and maintaining bacterial biofilms for biological filtration
Activity 4	Water Quality Monitoring	Remotely	3	10	Tracking key parameters before and after stocking organisms
Activity 5	Maintenance and Troubleshooting	Remotely	2	8	Routine checks, problem-solving, and ensuring system efficiency and biosecurity
Activity 6	Feeding and Operational Management	Physically/ Remotely	3	8	Managing system operations during feeding, growth, and spawning
	Preparation of Report and presentation of results at the online annual student's conference	Remotely	4	35	Enhance proficiency in written and oral communication within a particular field, utilizing specialized terminology
Total Hours			20	80	