

	Implementation schedule	Physically/remotely	Contact hours	Autonomous work for students (max hours)	Learning outcomes
<b>Activity 1</b>	Introduction to the importance of fish diseases	<b>remotely</b>	<b>2</b>	<b>8</b>	Understanding fish disease importance
<b>Activity 2</b>	Antimicrobial resistance in aquaculture	<b>remotely</b>	<b>2</b>	<b>8</b>	Understanding AMR
<b>Activity 3</b>	Laboratory safety and microbiological diagnostics	<b>remotely</b>	<b>2</b>	<b>5</b>	Lab safety & diagnostic principles
<b>Activity 4</b>	Preparation of agar plates, introduction to microbiological techniques	<b>physically</b>	<b>8</b>	<b>2</b>	Aseptic lab practice
<b>Activity 5</b>	Fish necropsy, sampling, bacterial isolation and preparation of antibiograms	<b>physically</b>	<b>8</b>	<b>2</b>	Diagnostic sampling
<b>Activity 6</b>	Observation of bacterial growth, inhibition zone measurements, interpretation of results	<b>physically</b>	<b>8</b>	<b>2</b>	Analyze and compare antimicrobial effects
<b>Activity 7</b>	Analysis of the results & Literature review	<b>remotely</b>	<b>2</b>	<b>10</b>	Develop critical scientific analysis
<b>Activity 8</b>	Preparation of Report and presentation of results at the online annual student's conference	<b>remotely</b>	<b>4</b>	<b>26</b>	Enhance proficiency in written and oral communication within a particular field, utilizing specialized terminology
<b>Total Hours</b>			<b>36</b>	<b>64</b>	<b>100</b>