



# RESEARCH SCIENTIFIC METHODS

Symbol	Completing this module, students can	Expected Learning Outcomes
<b>KNOWLEGES</b>		
CELO 1	Applying basic statistical quantities to calculate statistics.	ELO1, 2
CELO 2	Applying experimental layout types in the design of experimental systems in fisheries.	ELO2,5,9
<b>SKILLS</b>		
CELO 3	Practicing data processing skills, analyze statistics in fisheries.	ELO 2, 5, 6
CELO 4	Evaluating statistical results and make predictions	ELO 2, 5, 6
CELO 5	Implementing skills to ask questions, discuss, present views, analyze and evaluate analysis results.	ELO 2, 5,6,7
CELO 6	Practicing teamwork, presentation and writing skills	ELO 5, 6
<b>ATTITUDES</b>		
CELO 7	Correct awareness of your role and responsibility in the subject and lifelong learning	ELO 10, 11



## CREDITS AND SEMESTER

+ Number of credits: 2 credits (1 theory credits, 1 practice credits)

+ Semester: 4 (2nd semester, 2nd year)

## LEARNING CONTENT

The content of the course consists of 4 chapters:

**Chapter 1:** Some issues about science and scientific research

**Chapter 2:** Scientific Research Process

**Chapter 3:** Develop an outline of a scientific research topic

**Chapter 4:** Method of presenting scientific research reports

## LEARNING METHODS

- \* Students self-read documents, develop hypotheses and related questions
- \* Students participate in lectures and group discussions
- \* Students use a combination of knowledge from other modules and life experiences to propose a problem (certain assumption) and build an outline for the subject.

## DUTIES OF STUDENTS

- \* Attendance: Students must attend at least 80% for theory and 100% for practical.
- \* Preparation for lectures: Students must read teaching materials and reference books provided by lecturers.
- \* Attitude: actively participating in asking questions, exchanging, and marketing.

## RATING AND SCORING

- \* Score scale: 10
- \* Process evaluation: 50% + Final exam: 50%



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