STATISTICS AND EXPERIMENTAL DESIGN

Symbol	Completing this module, students can	Expected Learning Outcomes
KNOWLEGES		
CELO 1	Applying basic statistical quantities to calculate statistics.	ELO1, ELO2
CELO 2	Applying experimental layout types in the design of experimental systems in fisheries.	ELO2, ELO5, ELO9
SKILLS		
CELO 3	Practicing data processing skills, analyze statistics in fisheries.	ELO2, ELO5, ELO6
CELO 4	Evaluating statistical results and make predictions	ELO2, ELO5, ELO6
CELO 5	Implementing skills to ask questions, discuss, present views, analyze and evaluate analysis results.	ELO2, ELO5, ELO6, ELO7
CELO 6	Practicing teamwork, presentation and writing skills	ELO5, ELO6
ATTITUDES		
CELO 7	Correct awareness of your role and responsibility in the subject and lifelong learning	ELO10, ELO11

Calculating Standard Deviation

$$S_x = \sqrt{\frac{\sum_{i=1}^{n}(x_i - \bar{x})^2}{n-1}}$$

n = The number of data points
x_i = Each of the values of the data
$\bar{x}$ = The mean of x_i

Normal Distribution Curve
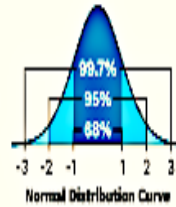
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LEARNING METHODS

+ Listening and answering questions
+ Observing and following the lecturers.
+ Reading documents and presenting results, comment, asking questions and evaluating results.

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%

## CREDITS AND SEMESTER

+ Number of credits: 3 credits (1 theory credits, 2 practice credits)

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

LEARNING CONTENT

The content of the course consists of 4 chapters:

Chapter 1: Applying basic quantities in statistics

Chapter 2: Method of comparing the two overall

Chapter 3: Application of experimental layout

Chapter 4: Methods of regression and correlation analysis
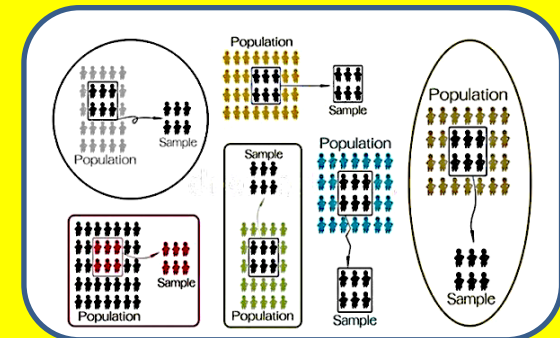
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