

Sample Course Description

Faculty: Faculty of Natural Science

Study program: Bio-Cemestry

Course Title: Biostatistics

Course Credits:3

Language of Instruction: English

Course Description: Recognition with statistical objectives.

- Recognition with the interior of statistical matter.
- The ability of students to understand and resolve different statistical situations.
- Recognition of students with the importance and numerous use of statistics.

Course Goals: The students will be able to use and interpret all the statistical elements and methods that will he need in the other courses of these study program.

- **Course Requirements:** Lectures are optional
- Seminars should be attended to 75%
- **Grading:**
- Participation / Activation + Task: 40 points
Final Exam: 60 points

Course Schedule:

1. Collecting data. Tabular and graphical presentation of them.
2. Finding the characteristics of establishing of data.
3. Finding the characteristics of spreading of data.
4. Two-dimensional data. Tabular presentation.
5. Two-dimensional data, main characteristics.
6. The point evaluation of parameters (mathematical expectation, variance and probability).
7. The method of moments and evaluation of distributions.
8. Interval evaluation of parameters (mathematical expectation, variance and probability).
9. Verification of statistical hypotheses for mathematical expectation,
10. Verification of statistical hypotheses for Variance and probability.
11. Hypotheses of Comparing the two expectations.
12. Hypotheses of Comparing the two Variances and two probabilities.
13. Pierson criterion for Distribution law.
14. Pierson criterion for Indipendeces of two populations.
15. Linear regression.