

Form (H)
Short course description

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| Course title: Statistical Methods | Course number and code: STAT 105 |
| Previous course requirement: STAT 101 | Language of the course: English |
| Course level: Year 2/ Level 3 | Effective hours: 4 (3+2+0) |

Course description

Some discrete and continuous Statistical distributions. Sampling distribution and central limit theorem. Estimation. Hypothesis testing. Chi-square tests. Analysis of variance. Analysis of correlation and regression.

Course objectives

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| Statistical distributions |
| Concept of estimation |
| Concept of testing |
| Introduction to the design of experiment |

Learning outcomes (understanding, knowledge, and intellectual and scientific skills)
After studying this course, the student is expected to be able to:

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| Demonstrate capability of choosing the appropriate statistical method for a particular application |
| Formulate significant research questions, analyses data and interpret the results. |
| Read, evaluate, and interpret numerical, statistical and general scientific information. |

Textbook adopted and supporting references

| Title of the book | Author's name | Publisher's name | Date of publication |
|-----------------------------------|---------------|------------------|---------------------|
| Applied Linear Statistical Models | Kutner et al. | McGraw-Hill | 2005 |
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