

[A-3] COURSE SYLLABUS

1. COURSE DESCRIPTION (Approximately 100 words)

This module provides a basic foundation of statistical knowledge and enables the student to present data in a clear and concise form, gives students the ability to analyse data so as to draw conclusions from them. Also, the course enables them to use resources such as electronic calculators, spreadsheets and statistical packages

2. COURSE GOALS AND OBJECTIVES (Approximately 100 words)

On Completion of this module, the learner will be able to

1. Understand, explain and apply principles and practice of Data Collection and Sampling
2. Use Statistical Data in the clear and concise presentation of data
3. Explain and apply the concepts of basic probability
4. Explain and apply the concepts of probability distributions
5. Understand explain and apply confidence intervals for population parameters
6. Use a statistical package to solve statistical problems and to present data.

3. TEXTBOOK (Title, Author, Publisher, Year of Publication, etc.)

Statistika asoslari (B. Mamatkulov, 2011, TDIU, 280b)

4. REFERENCE

Introduction to Statistics: Fundamental Concepts and Procedures of Data Analysis (Howard M. Reid, SAGE Publications, 2013, 632 pages); www.statsci.org,

5. COURSE REQUIREMENTS AND GRADES

Introduction to statistics course is a course for all bachelor students, so there are no any requirements. Grading system works as follows: 40% - Group assignment, 30% - Individual assignment, 30 - Final exam

6. COURSE CALENDAR

Week	Main Content
1	Introduction to statistics
2	Presenting Data
3	Summarizing Data
4	Probability
5	Discrete Random Variables
6	Normal Random Variables
7	Distribution of Sampling statistics
8	Estimation
9	Hypothesis Testing
10	Comparing populations
11	Analysis of Variance
12	Linear regression
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