



School	Business
Department	Economics, Business & Finance
Module title	Introduction of statistical economics
Module Code	2104184
Credit hours:	3 Credit Hours
Module Leader	Khalid Al-Majali (khalid5442@mutah.edu.jo)

The course aims to help the students to studying data collection, tabulation, and classification, Central tendency, and dispersion measures, Probability theory and probability distribution for both discrete and continuous variables, the relation among variables through the study of correlation and regression, hypothesis testing, and time series analysis.

On completion of this module students should:

- Have a strong grasp on the major issues that face statistical economics, including types of data, Central tendency, and dispersion measures, Probability theory and probability distribution and The relation among variables through the study of correlation and regression, hypothesis testing, and time series analysis.
- Be able to apply the formal principles you learn to real world issues.

Module outline

- Week 1: Introduction to Statistics: What Is It? unit 1
- Week 2 : statistical data types, Unit 2 & 3
- Week 3 : Measures of central tendency, Unit 3 & 4 & 5
- Week 4 : measures of dispersion, Unit 6& 7 & 8
- Week 5 Normal Distributions, Unit 9
- Week 6: Midterm Exam
- Week 7: The correlation, Unit 10 & 11
- Week 8: simple linear regression (OLS), Unit 12 & 13
- Week 9: Economic samples in linear regression,
- Week 10: Statistical hypothesis T test, Unit 14
- Week 11: Statistical hypothesis F test Unit 14
- Week 12: Second exam
- Week 13: Index numbers, Unit 15
- Week 14: Introduction to Time Series Analysis Unit 16
- Week 15: Revision
- Week 16: Final Exam

Course Materials

- Singh P. (2015). STATISTICAL METHODS IN ECONOMICS, Dec 0405
https://ebooks.lpu.de.in/arts/ma_economics/year_2/DECO504_STATISTICAL_METHODS_IN_ECONOMICS_ENGLISH.pdf
- Lecture slides.

Module Organization

- **Teaching:** 3-hour lectures per week
- **Student workload:** Approximately 6 hours study per week
- **Feedbacks** will take the shape of one-to-one.

Assessment method:

- 1st Exam 20% (1 hour): week 6.
- 2nd Exam 20% (1 hour): week 6.
- Weekly exercises/assignments 10% (1 hour): week 11.
- Final Exam 50% (2 hours): week 16.

Course policies

To be explained to the students at the first meeting:

- ✓ **Class attendance:** Students are expected to attend all lectures of this course due to the nature of the course that adopts a cumulative learning process. A prior approval is required for class absence, except for emergencies.

*Students **absent** from class are responsible for obtaining notes of lectures and project assignments from fellow students and are responsible for turning such assignments when due. Absence is not an excuse for meeting an assignments due date.*

- ✓ **Tardy:** Arriving late are not expected in both on-campus and online lectures (if any), as it would affect the understanding of the student to the new topic, and therefore his performance in the daily exercise.
- ✓ **Class behavior:** A student is expected to pay full attention to the tutor, to respect his colleagues, and to keep the lectures and his table clean and tidy. Additionally, full attention shall be kept during the classes as the peer-to-peer learning is one of the major learning tools in the lecture.
- ✓ **Food and drinks:** Snacks and drinks with lids **are not** allowed in the lectures.
- ✓ **Submissions and exams:** The weekly exercises are expected to be submitted on time. Late submissions are only accepted within a week of the original deadline and with 10% cut of the main grade. Failure to attend any exam or quiz will result to have a mark of zero.
- ✓ **Cheating:** Cheating in all its forms are not accepted and would result in an automatic zero for the submission/exam and would be reported to the dean to investigate the case and decide upon a suitable punishment according to the university regulations.