

Course Syllabus

1	Course title	Econometrics	
2	Course number	1607440	
3	Credit hours	3	
	Contact hours (theory, practical)		
4	Prerequisites/corequisites		
5	Program title	BA Business Economics	
6	Program code	07	
7	Awarding institution		
8	School	School of Business	
9	Department	Business Economics	
10	Course level	4 th Year	
11	Year of study and semester (s)	2022/2023	
12	Other department (s) involved in teaching the course		
13	Main teaching language	English	
14	Delivery method	<input checked="" type="checkbox"/> Blended <input type="checkbox"/> Online	
15	Online platforms(s)	<input checked="" type="checkbox"/> Moodle <input checked="" type="checkbox"/> Microsoft Teams <input type="checkbox"/> Skype <input type="checkbox"/> Zoom <input type="checkbox"/> Others.....	
16	Issuing/Revision Date		

17 Course Coordinator:

Name: Dr. Raad Al-Tal

Contact hours:

Office number:

Phone number:

Email: r.tal@ju.edu.jo

18 Other instructors:

Name:

Office number:

Phone number:

Email:

Contact hours:

Name:

Office number:

Phone number:

Email:

Contact hours:

19 Course Description:

This module introduces students to the importance of econometric modelling in economics. It starts with an introduction to definitions of econometrics and economic relationships. It covers topics of basic econometrics such as estimation of simple and multiple linear regression by OLS, Hypothesis testing, problems of inference and non-linear forms of economic functions. This module introduces students to the applied work using EViews; students are trained on how to use Excel and EViews to estimate economic models and be familiar with different diagnostic tests.



20 Course aims and outcomes:

A- Aims:

The main aim of this course is to deal with the measurement of economic relationships and to understand the economic theory through empirical analysis.

B- Intended Learning Outcomes (ILOs):

Upon successful completion of this course, students will be able to:

- 1- To understand the nature and scope of econometrics as a social science and start building economic models.
- 2- To develop and maintain a working knowledge of econometrics that will provide a basic foundation for future study in econometrics and statistical techniques.
- 2- To distinguish the difference between different relationships in statistics.
- 4- To Analyze economic theory empirically.

Upon successful completion of this course, students will be able to:

SLOs	SLO (1)	SLO (2)	SLO (3)	SLO (4)
SLOs of the course				
Explain the core economic terms, concepts, and theories, and the main foundations of microeconomic and macroeconomic disciplines and illustrate them with examples.				X
Utilize critical thinking and problem solving to analyze an economic problem and draw correct inferences using quantitative analysis based on the statistical and econometric tools.	X		X	
Employ the “economic way of thinking” through discussing the application of marginal analysis and explaining the use of benefit/cost analysis.		X		
Evaluate theory and critique research within the discipline, and conduct an economic modeling for an economic phenomenon	X			
Apply ethical principles and core economic ideas to address real world issues and problems.			X	
Develop oral and written communication skills using appropriate technologies to provide an economic analysis for an economic issue.				X

21. Topic Outline and Schedule:

Week	Lecture	Topic	Student Learning Outcome	Learning Methods (Face to Face/Blended/ Fully Online)	Platform	Synchronous / Asynchronous Lecturing	Evaluation Methods	Resources
1	1.1	Introduction		Blended	MS teams and E-learning	Synchronous		
	1.2	Basic Concepts		Blended	MS teams and E-learning	Synchronous		
	1.3	Basic Concepts		Blended	MS teams and E-learning	Synchronous		
2	2.1	Types of Data		Blended	MS teams and E-learning	Synchronous		
	2.2	Types of Data		Blended	MS teams and E-learning	Synchronous		
	2.3	Regression Analysis 1		Blended	MS teams and E-learning	Synchronous		
Week	Lecture	Topic	Student Learning Outcome	Learning Methods (Face to Face/Blended/ Fully Online)	Platform	Synchronous / Asynchronous Lecturing	Evaluation Methods	Resources
3	3.1	Regression Analysis 3		Blended	MS teams and E-learning	Synchronous		
	3.2	Regression Analysis 3		Blended	MS teams and E-learning	Synchronous		
	3.3	Regression Analysis 3		Blended	MS teams and E-learning	Synchronous		
4	4.1	Multiple Regression 1		Blended	MS teams and E-learning	Synchronous		
	4.2	Multiple Regression		Blended	MS teams and E-learning	Synchronous		

		2						
	4.3	Multiple Regression 1		Blended	MS teams and E-learning	Synchronous		
5	5.1	Multiple Regression 2		Blended	MS teams and E-learning	Synchronous		
	5.2	Numerical Exercise		Blended	MS teams and E-learning	Synchronous		
	5.3	The Classical Assumptions		Blended	MS teams and E-learning	Synchronous		
6	6.1	The Classical Assumptions		Blended	MS teams and E-learning	Synchronous		
	6.2	MIDTERM EXAM		Blended	MS teams and E-learning	Synchronous		
	6.3	Interval Estimation		Blended	MS teams and E-learning	Synchronous		
7	7.1	Interval Estimation		Blended	MS teams and E-learning	Synchronous		
	7.2	Confidence Interval		Blended	MS teams and E-learning	Synchronous		
	7.3	Confidence Interval		Blended	MS teams and E-learning	Synchronous		
8	8.1	Numerical Exercise		Blended	MS teams and E-learning	Synchronous		
	8.2	Hypothesis Testing		Blended	MS teams and E-learning	Synchronous		
	8.3	Hypothesis		Blended	MS teams and E-	Synchronous		

		Testing			learning			
9	9.1	Hypothesis Testing		Blended	MS teams and E-learning	Synchronous		
	9.2	Hypothesis Testing		Blended	MS teams and E-learning	Synchronous		
	9.3	Hypothesis Testing		Blended	MS teams and E-learning	Synchronous		
10	10.1	Hypothesis Testing		Blended	MS teams and E-learning	Synchronous		
	10.2	Hypothesis Testing		Blended	MS teams and E-learning	Synchronous		
	10.3	Hypothesis Testing		Blended	MS teams and E-learning	Synchronous		
Week	Lecture	Topic	Student Learning Outcome	Learning Methods (Face to Face/Blended/ Fully Online)	Platform	Synchronous / Asynchronous Lecturing	Evaluation Methods	Resources
11	11.1	Functional Forms		Blended	MS teams and E-learning	Synchronous		
	11.2	Dummy Variables		Blended	MS teams and E-learning	Synchronous		
	11.3	Problems of Estimation		Blended	MS teams and E-learning	Synchronous		
12	12.1			Blended	MS teams and E-learning	Synchronous		
	12.2	Problems of Estimation		Blended	MS teams and E-learning	Synchronous		
	12.3	Problems of Estimation		Blended	MS teams and E-learning	Synchronous		

13	13.1	Problems of Estimation		Blended	MS teams and E-learning	Synchronous		
	13.2	Problems of Estimation		Blended	MS teams and E-learning	Synchronous		
	13.3	Problems of Estimation		Blended	MS teams and E-learning	Synchronous		
14	14.1	STATA Session		Blended	MS teams and E-learning	Synchronous		
	14.2	STATA Session		Blended	MS teams and E-learning	Synchronous		
	14.3	STATA Session		Blended	MS teams and E-learning	Synchronous		
15	15.1	Final Exams Week		Blended	MS teams and E-learning	Synchronous		
	15.2	Final Exams Week		Blended	MS teams and E-learning	Synchronous		
	15.3	Final Exams Week		Blended	MS teams and E-learning	Synchronous		

22 Evaluation Methods:

Opportunities to demonstrate achievement of the SLOs are provided through the following assessment methods and requirements:

Evaluation Activity	Mark	Topic(s)	Period (Week)	Platform	
Short Exam / Project	25		10	MS Teams	
Participation	5		14	MS Teams	
Midterm Exam	30		7	On campus	
Final Exam	40		14	On campus	

23 Course Requirements

(e.g: students should have a computer, internet connection, webcam, account on a specific software/platform...etc):

24 Course Policies:

- A- Attendance policies:
- B- Absences from exams and submitting assignments on time:
- C- Health and safety procedures:
- D- Honesty policy regarding cheating, plagiarism, misbehavior:
- E- Grading policy:
- F- Available university services that support achievement in the course:

25 References:

- A- Required book(s), assigned reading and audio-visuals:
 - PowerPoint slides loaded on course page
 - Number of videos loaded on course page
- B- Recommended books, materials and media:
 - D. Gujarati, **Basic Econometric MacGraw-Hill, Inc. 2011**
 - D. Gujarati, **Econometrics by Example**, Red Globe Press. 2014.
 - A. H. Studenmund, **Using Econometrics: A Practical Guide**, 6th edition, Person, 2014

26 Additional information:

Name of Course Coordinator: **Dr. Raad Al-Tal** Signature: **Raad** Date: **10.10.2022**

Head of Curriculum Committee/Department: ----- Signature: -----



مركز الاعتماد
وإضمان الجودة
ACCREDITATION & QUALITY ASSURANCE CENTER

Head of Department: ----- Signature: -----

Head of Curriculum Committee/Faculty: ----- Signature: -----

Dean: ----- Signature: -----