

University of Jordan					
Faculty of Business					
Department	Economics				
Programme	BSc Economics				
Module title / number	Scientific Research in Economics 1607311				
Pre-requisite	Principles of Statistics/ 1607150				
Module description	Covers these topics: the concept of scientific research and its definition, and kinds of scientific research, stages and objectives of scientific research, kinds and sources of data and data collection: Questionnaire, population and sample: kinds of sampling, the relation between statistics and scientific research, implementation and analyzing data using statistical methods with SPSS, finally writing reports.				
Aims	Providing students with concepts and definition and the importance of scientific research, also providing students with skills in choosing the appropriate way of writing the Questionnaire, the statistical analysis and writing the final report.				
Intended learning outcomes (ILOs)					
1- knowledge and understanding	Students should have knowledge of: <ul style="list-style-type: none"> - The main concepts of scientific research, and its importance. - How to think wisely and scientifically. - How to write questions in the Questionnaire. - How to deal with the data. 				
2- analytical and thinking skills	Students should have the ability to: <ul style="list-style-type: none"> - Write the questions in the Questionnaire correctly. - Choosing and applying the appropriate statistical analysis. - Writing the reports. 				
Teaching and learning methods					
	Although the lectures cover the vast majority of the course material, students must use the text book. A number of problems (some could be chosen from the end of chapter problems) will be indicated in class, specifying their due time. A discussion of the assigned problems can be done through the preceding lectures. Also, applying all scientific research steps by students in a form of a report which will be presented in the end of the semester.				
Assessment methods					
	Students will be assessed based on the following: <table style="width: 100%; border: none;"> <tr> <td style="width: 80%;">Mid-term Exam</td> <td style="text-align: right;">30%</td> </tr> <tr> <td>Assignments, a second Exam and a report</td> <td style="text-align: right;">20%</td> </tr> </table>	Mid-term Exam	30%	Assignments, a second Exam and a report	20%
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	Final Exam	50%	
	<p>Details of these assignments, presenting reports and the submission deadlines will be announced in class and/or posted on the course website. Students are advised to keep track of what is announced in class, it is their responsibility to do so, BEING ABSENT IS NOT AN EXCUSE FOR NOT KNOWING WHAT IS GOING ON.</p>		
Academic Honesty			
	<p>All the assignments and work submitted by the student should be his or her own. All actions of academic dishonesty including cheating, plagiarism or helping other students in such actions will be dealt with strictly according to the university regulations.</p>		
Main textbook(s) and additional readings			
	<p>Alkadi, D. (2008), "Methodology and techniques of Scientific Research and Data Analysis using SPSS".</p>		
Detailed lecture schedule			
	Week	Material	Homework and Assignments
	1	<p>Introduction to scientific research methodology:</p> <ul style="list-style-type: none"> - Definition of scientific research. - Kinds of scientific research. - The role of researchers in scientific research. - The role of government and companies in scientific research. 	To be announced
	2	<ul style="list-style-type: none"> - Stages for research development. - Methods and types of scientific research. 	To be announced
	3	<ul style="list-style-type: none"> - Stages in scientific 	To be announced

		<p>research.</p> <ul style="list-style-type: none"> - Objectives of scientific research. 	
	4	<p>Data and observations:</p> <ul style="list-style-type: none"> - Kinds of data. - Sources of data. - Data collection. 	To be announced
	5	Questionnaires.	To be announced
	6	Population and samples: kind of samples.	To be announced
	7	<p>Statistics:</p> <ul style="list-style-type: none"> - Relationship between the definition of statistics and scientific research methodology. - Relationship between statistical methods and scientific research methods. - Relationship between statistical theory and scientific research methodology. 	To be announced
	8	<p>Starting the program SPSS:</p> <ul style="list-style-type: none"> - Entering the data and creating files. - Descriptive statistics and its applications. 	To be announced
	9	<ul style="list-style-type: none"> - Statistical graphical methods and its applications. - Inferential statistics methods. 	To be announced
	10	- Statistical	To be

		method determination. <ul style="list-style-type: none"> - Statistical methods and its applications. 	announced
	11	<ul style="list-style-type: none"> - Applying the steps to write Questionnaire. - Applying the steps to analyze data. - Starting writing reports. 	To be announced
	12	<ul style="list-style-type: none"> - Methods and rules in writing Quotations. - Methods and rules in writing footnotes. 	To be announced
	13	<ul style="list-style-type: none"> - Methods and rules in writing references. - Methods and rules in writing reports. 	To be announced
	14	Recognizing the parts of the report which are preliminaries, the body of the research, and the appendices.	To be announced
	15	Presenting the reports by students.	To be announced
	16	Presenting the reports by students.	To be announced