QF05/0408-4.0 E	Course Plan for Bachelor program - Study Plan Development and Updating Procedures/ Management Information Systems Department

Study plan No.	2021/2022		**University Specialization**		MIS
Course No.	0506341		**Course name**		Programing Package
Credit Hours	3		**Prerequisite/ Co-requisite**		Business statistics
Course type	☐ MANDATORY UNIVERSITY REQUIREMENT	☐ UNIVERSITY ELECTIVE REQUIREMENTS	☐ FACULTY MANDATORY REQUIREMENT	☐ Support course family requirements	✓Mandatory requirements ☐ Elective requirements
Teaching style	☐ **Full online learning**		☐ **Blended learning**		✓**Traditional learning**
Teaching model	☐ **1 Synchronous: 1 asynchronous**		☐ **1 face to face : 1 asynchronous**		✓**2 Traditional**

Faculty member and study divisions' information (to be filled in each semester by the subject instructor)

Name	Academic rank	Office No.	Phone No.	E-mail	
Division number	**Time**	**Place**	**Number of students**	**Teaching style**	**Approved model**

Brief description

This course covers some the most frequent applications of SPSS, importing data, basic data analysis, descriptive analyses & displaying statistical data graphically, principal component analysis, factor analysis, hypothesis analysis, and analysis of variance linear & multilinear regressions.

Learning resources

Course book information (Title, author, date of issue, publisher ... etc.)	1. **Paul R. Kinnear, and Gary Colin D.(1999) , SPSS For Windows Made Simple, British Library, Cataloguing-in- Publication Data.**			
Supportive learning resources (Books, databases, periodicals, software, applications, others)	2. **GREEN, S.B., and N.J. SALKIND, (2003), Using SPSS for Windows and Macintosh: Analyzing and Understanding Data, Prentice Hall, U.S.A.** 3. **بخيت، حسين علي و غالب عوض الرفاعي (2007)، تحليل ونمذجة البيانات باستخدام الحاسوب: تطبيق شامل للحزمة SPSS، الأهلية للنشر والتوزيع، عمان، الأردن**			
Supporting websites				
The physical environment for teaching	☐ Class room	✓labs	☐ Virtual educational platform	☐ Others
Necessary equipment and software	SPSS 18, 26			
Supporting people with special needs				
For technical support				

Course learning outcomes (S= *Skills, C= Competences K= Knowledge,)*

No.	Course learning outcomes	The associated program learning output code
	Knowledge	
K1	Using SPSS as a predictive analytical software that can benefit to import data, data analysis, descriptive analyses and testing hypothesis, factor analysis, analysis of variance, linear and multilinear regressions and simple inferential tests, such as t-tests and one-way ANOVA table and tow –way a nova analysis.	**MK1**
K2	Using SPSS as a predictive analytical software that can benefit almost any sector of business that relies on effective, informed decision-making.	**MK2**
K3	Being able to insert data In the SPSS application and being able to use the descriptive analyses and testing hypothesis	**MK3**
	Skills	
S1	Knowing the SPSS to identify variables, and Insert data or cases.	**MS1**
S2	Students' ability to use SPSS application to analyze data.	**MS2**
	Competences	
C1	Knowing the SPSS measures.	**MC1**
C2	Knowing the SPSS analysis processes.	**MC2**

Mechanisms for direct evaluation of learning outcomes

Type of assessment / learning style	Fully electronic learning	Blended learning	Traditional Learning (Theory Learning)	Traditional Learning (Practical Learning)
Midterm exam		**30%**		
Participation / practical applications		**0**		
Asynchronous interactive activities		**30%**		
Final exam		**40%**		

Note 1: Asynchronous interactive activities are activities, tasks, projects, assignments, research, studies, projects, work within student groups ... etc, which the student carries out on his own, through the virtual platform without a direct encounter with the subject teacher.

Note 2: According to the Regulations of granting Master's degree at Al-Zaytoonah University of Jordan, 40% of final evaluation goes for the final exam, and 60% for the semester work (examinations, reports, research or any scientific activity assigned to the student).

Schedule of simultaneous / face-to-face encounters and their topics

Week	Subject	learning style*	Reference **
1	**Chapter 1:** Introduction For SPSS application	Lecture	28-12: Kinnear-Colin
2	**Chapter 2:** Statistical Analysis using the SPSS Package	Lecture	
3	**Chapter 3:** Entering and Editing Data: - Sort Cases. - Transpose. - Aggregate. - Select File. Weight Cases.	Lecture	70 -38 : Kinnear-Colin
4	**Listing and Exploring:** - Compute. - IF. - Count. - Recode. - Rank Cases. - Create Time Series. Replace Missing Values.	Lecture	78 -117 Kinnear-Colin
5	**Describing Data:** - Frequencies. - Charts. - Descriptive analysis.	Lecture	99-83 Kinnear-Colin
6	**Exploring Data:** Parametric Methods: T-Test: -One sample T-Test. -Independent Samples T-Test. -Paired samples T-Test.	Lecture	112-94 134 -149 Kinnear-Colin
7	**Chapter 4:** Non parametric Methods: -Chi-Square Test. -Two Independent Samples. -K-Related Samples Test.	Lecture	163 -168 188-187 Kinnear-Colin
8	Analysis of Variance (ANOVA): -The One- Way ANOVA. - The Two- Way ANOVA	Lecture	178 -183 Kinnear-Colin
9	Analysis of Variance (ANOVA): -The One- Way ANOVA. - The Two- Way ANOVA	Lecture	178 -183 Kinnear-Colin
10	**Chapter 5:** Correlation Analysis: -Pearson Correlation. -Spearman Correlation. - Partial Correlation.	Lecture	272 -267 Kinnear-Colin
11	Correlation Analysis**:**	Lecture	272 -267

	-Pearson Correlation. -Spearman Correlation. - Partial Correlation.		Kinnear-Colin
12	**Chapter 5:** Regression Analysis: -Simple Regression Model. -Multiple-Regression Model.	Lecture	292 -293 Kinnear-Colin
13	**Regression Analysis:** -Simple Regression Model. -Multiple-Regression Model.	Lecture	292 -293 Kinnear-Colin
14	**Chapter 5:** Factor Analysis Discriminant analysis	Lecture	358 -360 Kinnear-Colin
15	Factor Analysis Discriminant analysis	Lecture	358 -360 Kinnear-Colin
16	Revision		

*** Learning styles: Lecture, flipped learning, learning through projects, learning through problem solving, participatory learning ... etc.**

**** Reference: Pages in a book, database, recorded lecture, content on the e-learning platform, video, website ... etc.**

Schedule of asynchronous interactive activities (in the case of e-learning and blended learning)

Week	Task / activity	Reference	Expected results
1	Knowing how to deal with SPSS.		
2	Identifying the variables and inserting the cases in the SPSS.		
3	Inserting the new variables and the new cases.		
4	Using copy, past, and delete to the data.		
5	Making the sorting data.		
6	Making the select cases.		
7	Making IF functions.		
8	Using compute in SPSS.		
9	Using IF and compute in SPSS.		
10	Using the Parametric Methods: T-Test: -One sample T-Test		
11	Using the Non parametric Methods such as: Chi-Square Test		
12	The One- Way ANOVA		
13	Making the Independent Samples T-Test. And Paired samples T-Test.		
14	Using calculations to the Correlation Analysis.		
15	Using calculations to the Regression Analysis		
16	Using Factor Analysis Discriminant analysis		