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

Study plan No.	2022/2021			University Specialization		Management Information Systems
Course No.	0506413			Course name		Decision Support Systems
Credit Hours	3			Prerequisite Co-requisite		0501234
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	☐ 2Synchronous: 1asynchronous		✓face to face : 1synchronous		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
				2:1	Blended

Brief description

This course aims to provide students with fundamental knowledge on decision support systems for managers and IS developers. This course explores topics in computer-based Decision Support Systems with a practical focus on the application of information technology to the solution of management problems. Topics include Management Support Systems, decision making systems, Data mining for business and intelligent system

Learning resources

Course book information (Title, author, date of issue, publisher ... etc)	Turban, Sharda, and Delen, Decision Support and Business Intelligence Systems, 9/e.2018			
Supportive learning resources (Books, databases, periodicals, software, applications, others)	1 Microsoft Excel 2 3			
Supporting websites				
The physical environment for teaching	✓Class room	✓labs	✓Virtual educational platform	☐ Others
Necessary equipment and software	Microsoft Excel			
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	Provide students with the main concepts of Decision Support System (DSS) and management sciences	
K2	Study the components of DSS and the main players who participate in the decision process.	
K3	Study different types of modeling and analysis.	
K4	Explain key areas contributing to DSS such as knowledge acquisition, expert system and knowledge base systems	
Skills		
S1	ability to analyze problems and DSS phases	
S2	use the technology and software to construct simple models	
S3	construct a DSS application with its database and models and interface	
S4	ability to analyze data more effectively using Excel	
Competences		
C1	ability to identify the complex business environment	
C2	identify the concept of business intelligence	
C3	ability to solve problems through the use of sophisticated intelligent systems	
C4	Describe and distinguish the different decision support system architecture	

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)
First exam	0	**0**	%20	0
Second / midterm exam	%30	**%30**	%20	30%
Participation / practical applications	0	**0**	10	30%
Asynchronous interactive activities	%30	**%20**	0	0
final exam	%40	**%50**	%50	40%

Note: 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.

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

Week	Subject	learning style*	Reference **
1 2 3	Management support system : An overview	**Lecture**	
4 5 6	Decision-Making Systems, Modeling and support	**Lecture**	
7 8 9	Decision Support Systems	**Lecture**	
10 11 12	Modeling and Analysis	**Lecture**	
13	Group support systems	**Lecture**	
14 15	Application and Case Studies Using Microsoft Excel	**Lecture**	
16	**Final Exam**		

* 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	Managers and Decision		
2	Computerized decision support		
3	A framework for Decision support		
4	System effectiveness and efficiency		
5	Models		
6	Phases of the Decision-Making process		
7	Supporting decisions		
8	Characteristics and capabilities of DSS		
9	Components of DSS		
10	DSS classifications		
11	MSS Modeling and models categories		
12	Static and dynamic models		
13	Certainty, uncertainty, and risk		
14	MSS Modeling with spreadsheets		
15	MSS Modeling with Powersim Software		
16	Final Exam		