



Lebanese French University

Ministry of Higher Education and
Scientific Research
Kurdistan Region – Iraq



A COURSE MODULE DESCRIPTOR FORM

(Course Book)

Module Information			
Course Module Title	Data Analysis for Decision Making		
ناونیشانی مۆدیۆل			
عنوان الوحدة			
Course Module Type	Core	Module Code	
ECTS Credits	6	Module Level	2
Semester of Delivery	4	Dept. Code	HA
College (Code)	College of Administration & Economics		
Module Website (CMW)	https://ums.lfu.edu.krd/#		
Module Leader (ML)	M.Sc. Ronyaz Hayyas Mahmood		
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ML Acad. Title	Assistant Lecturer	ML Qualification	M.Sc.
ML ORCID	https://orcid.org/my-orcid?orcid=0000-0003-2657-5366		
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Course Module Tutor	M.Sc. Ronyaz Hayyas		
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Date Approved	27/1/2025	Version Number	1.0

Relation with Other Modules

Pre-requisites	N/A
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Module Aims, Learning Outcomes, and Indicative Contents

Module Introductory Description	<p>This topic discusses Data Analysis for Decision Making and the fundamental rules for Students to develop their skills, knowledge, and abilities to advance their careers. Encompassing fundamental principles, techniques, and practical applications necessary for decision-making in Data Analysis. It provides a systematic method for data Collection, analysis, and decision-making in different professional fields. The addressed topics encompass data in business, data collection, data analysis, decision making and data analysis for decision making</p>
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Module Aims	<p>Data Analysis for Decision Making provides students with a comprehensive understanding of the fundamental concepts and principles employed in management, as well as practical strategies for their application. Thus, the objective of instructing Data Analysis for Decision Making can be succinctly stated as:</p> <ol style="list-style-type: none"> 1. Understood. The addressed topics are Data and data in business 2. Familiarity with developing data collection and data analysis 3. Understand desirable decision making. 4. Providing the learner with the tools and knowledge to enhance Data Analysis for Decision Making .
Module Learning Outcomes	<p>At the end of the course, students should:</p> <ol style="list-style-type: none"> 1. Understanding Data and data in business. 2. Define the addressed topics: data collection and data analysis. 3. Knowing how to make decisions? 4. The learner will be familiar with the tools and knowledge to enhance Data Analysis for Decision Making.
Learning and Teaching Strategies	
Strategies	<p>The module will be provided to the students through the use of contemporary technologies, case studies, reading materials, flipped classrooms, videos, and case analyses. It will be done using a student-centered approach. The tactics to be used to focus on student learning outcomes.</p>

Module Delivery	
Structured workload (h/w)	3 hours / Week
Unstructured workload (h/w)	11.4 h/w
Total workload (h/w)	14.4 h/w



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Module Assessment				
	Time/Number	Weight (Marks)	Week Due	Relevant Outcome
Class Participation	1	10%	Weekly	Class and activity participation rate, as well as the capacity to effectively communicate and interact with others.
Case-study	1	5%	5 th -12 th	Students develop the ability to critically analyze complex situations, identify problems, and evaluate alternative solutions.
Presentation / Seminar	1	5%	3 th -8 th	Developing an awareness of how to utilize values to better their own professionalism, as well as increasing their skills in conducting comprehensive research, identifying reliable sources, and incorporating findings into their presentations.
Quiz	1	5%	6 th	reinforce and consolidate knowledge by providing regular opportunities for students to recall and apply what they have learned.
Report	1	15%	Weekly	explore subjects in greater depth, fostering a more thorough understanding of the material.
Self-study	1	5%	6 th -9 th	chance to exhibit knowledge in various contexts, and fostering a sense of responsibility and independence.
Midterm Exam	1	15%	8 th -11 th	
Final Exam	1	40%	15 th	
Total		100%		



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Learning and Teaching Resources

	Text	Available in the Library?
Required Texts		Available Online
Recommended Texts		Yes
Websites	Lfu.edu.krd	

Delivery Plan (Syllabus)

Week	Material Covered
Week 1	Chapter One:- DATA Data, Type of DATA, DATA in Business, Why is data important to business?
Week 2	What types of data are most important for business intelligence and analytics? Top Tips For Ensuring Data Integrity And Quality, How To Use Data Strategically In Business:
Week 3	Chapter Two:-Data Collection & Data Analysis DATA COLLECTION, The Purpose of Data Collection, Methods of Data Collection, Selection of proper Method for collection of Data
Week 4	Data analysis, Why do we need analytics? Steps of Quantitative Data Analysis
Week 5	DATA For Business Analysis, Importance of Business Analytics, 4 Types of Data Analytics, Data Collection vs. Data Analysis
Week 6	Data Analysis: Unlocking Growth in the Health Sector, Data Analysis: Unlocking Growth in the Health Sector, Key Aspects of Data Analysis in Healthcare
Week 7	Chapter Three:- Problem Statement A business problem statement, How to Write a Business Problem Statement? How to Develop a Business Problem Statement, Business Problem Statement Framework
Week 8	Business Problem Statement Templates, Solve Problems, Addressing Operational Challenges in Hospitals, Addressing Operational Challenges in Hospitals,
Week 9	Chapter Three:- Decision-Making What Is Decision Making? Understanding the Decision-Making Process, Decision-Making Frameworks



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Week 10	Avoiding Common Decision-Making Traps, Hospital Administration: Complex Resource Allocation, Ethical Considerations in Decision-Making, The Impact of Technology on Decision-Making
Week 11	Decision-Making in Crisis Situations, The Role of Communication in Decision-Making
Week 12	Chapter Five:- Data Analysis for Decision Making Data Analysis for Decision Making, The Importance of Data Analysis in Decision-Making, Data Analysis for Decision Making
Week 13	Data Analysis for Informed Decision-Making in Health and Hospital Sector, Optimizing Hospital Operations for Efficiency and Cost Savings, Improving Financial Performance and Revenue Generation
Week 14	Data-Driven Insights for Strategic Decision-Making, Ethical Considerations and Data Privacy, Leveraging Advanced Analytics and Emerging Technologies
Week 15	Evolution of Business Analytics , Data Analysis Tools and Techniques
Course Keywords	
<ul style="list-style-type: none"> Information System, Information technology, Management Information, Knowledge Management. 	

APPENDIX: (Help and Information)

Percentage to Grade Chart		
Marks	Level	ئاست
90 - 100	Excellent	ناياب
80 - < 90	Very Good	زۆر باش
70 - < 80	Good	باش
60 - < 70	Medium	ناوهند
50 - < 60	Pass	پهسهند
0 - < 50	Fail	كهوتوو