



Course Specifications

Course Title:	Graduate Project 1
Course Code:	Mth 491
Program:	Mathematics
Department:	Mathematics
College:	Science at Zulfi
Institution:	Majmaah University

Table of Contents

A. Course Identification	3
6. Mode of Instruction (mark all that apply)	3
B. Course Objectives and Learning Outcomes	3
1. Course Description	3
2. Course Main Objective.....	3
3. Course Learning Outcomes	4
C. Course Content	4
D. Teaching and Assessment	4
1. Alignment of Course Learning Outcomes with Teaching Strategies and Assessment Methods	4
2. Assessment Tasks for Students	5
E. Student Academic Counseling and Support	5
F. Learning Resources and Facilities	5
1. Learning Resources	5
2. Facilities Required.....	6
G. Course Quality Evaluation	6
H. Specification Approval Data	6

A. Course Identification

1. Credit hours:	2
2. Course type	
a.	University <input type="checkbox"/> College <input type="checkbox"/> Department <input checked="" type="checkbox"/> Others <input type="checkbox"/>
b.	Required <input checked="" type="checkbox"/> Elective <input type="checkbox"/>
3. Level/year at which this course is offered:	7 th Level
4. Pre-requisites for this course (if any):	
	Passing 85 credit hours
5. Co-requisites for this course (if any):	
	NA

6. Mode of Instruction (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1	Traditional classroom	10	30%
2	Blended	4	20%
3	E-learning	-	-
4	Distance learning	-	-
5	Other	14	50%

7. Contact Hours (based on academic semester)

No	Activity	Contact Hours
1	Lecture	28
2	Laboratory/Studio	0
3	Tutorial	0
4	Others (specify)	0
	Total	28

B. Course Objectives and Learning Outcomes

1. Course Description

In this course we will teach to the student the following: - Extraction of key words from a given subject Bibliographical research according to the determined key words Enrichment of the list of key words in view of the bibliography established Collect of the data and information related to the new list of key words Selection of the interesting bibliography that will be used in the final proposal Study of the selected bibliography Resume of the study Confection of a proposal

2. Course Main Objective

The aim of this unit is to prepare the student to the study and to the writing of future graduate project. During this course the student will learn how he can extract all the useful information that he need from a given subject of research and then define a methodology to study the problem. The course guides the student step by step from the reading of the subject until reaching the goal that is the confection of a precise methodology and a James Brown clear

proposal and avoid him the redundancy and no useful tools. It constitutes the first step in the elaboration of the graduate project programmed in the next term (Graduate Project2).

3. Course Learning Outcomes

CLOs		Aligned PLOs
1	Knowledge and Understanding	
1.1	Determine the pertinent information.	K1
1.2	Enriching phrases, concepts and information through An initial reading of the information obtained in the previous stages.	K1
1.3		
1.4		
2	Skills :	
2.1	Extracting the important key words and information from the resources.	S1
2.2	Making a summary of his reading.	S1
2.3	Creating a study plan of the subject.	S1
2.4	Writes an objective proposal able to be concretized.	S1
2.5		
2.6		
3	Values:	
3.1	Analyzing a mathematical problem	C4
3.2	Suggesting appropriate tools for studying it	C4
3.3	Analyzing and interpret results of the problem	C4
3...		

C. Course Content

No	List of Topics	Contact Hours
1	Study the keys to the research topic	2
2	Looking for references	2
3	Enriching the topic with new keys and phrases	2
4	Enrich your list of references	2
5	Collect references and data	4
6	Sorting references and identifying the most important ones	4
7	Study the planned references	4
8	Summarizing the most important lessons learned from the planned references	4
9	Formulating a methodology for carrying out the research project	4
Total		28

D. Teaching and Assessment

1. Alignment of Course Learning Outcomes with Teaching Strategies and Assessment Methods

Code	Course Learning Outcomes	Teaching Strategies	Assessment Methods
1.0	Knowledge and Understanding		
1.1	Determine the pertinent information.	Lecture	Asking questions
1.2	Enriching phrases, concepts and information through	Brainstorming	Weekly assignments

Code	Course Learning Outcomes	Teaching Strategies	Assessment Methods
	an initial reading of the information obtained in the previous stages.		
...			
2.0	Skills		
2.1	Extracting the important key words and information from the resources.	Cooperative learning	Proposal Discussion
2.2	Making a summary of his reading.	Brainstorming	Weekly assignments
2.3	Creating a study plan of the subject.	Solving problem	Asking questions
3.0	Values		
3.1	Analyzing a mathematical problem	Brainstorming	Proposal Discussion
3.2	Suggesting appropriate tools for studying it	Solving problem	Weekly assignments
3.3	Analyzing and interpret results of the problem	Cooperative learning	Asking questions

2. Assessment Tasks for Students

#	Assessment task*	Week Due	Percentage of Total Assessment Score
1	Student's Commitment	During the semester	20%
2	Student's Understanding of the topic	During the semester	20%
3	Writing proposal	13-14	20%
4	Proposal structure and scientific value	15	15%
5	Clarity of problem statement and methodology	15	10%
6	The presentation and question answers	15	15%

*Assessment task (i.e., written test, oral test, oral presentation, group project, essay, etc.)

E. Student Academic Counseling and Support

Arrangements for availability of faculty and teaching staff for individual student consultations and academic advice :

- 1- Office hours per week in the lecturer schedule.
- 2- The contact with students by e-mail and website.

F. Learning Resources and Facilities

1. Learning Resources

Required Textbooks	James D. Lester, Writing Research Papers: A Complete Guide, Pearson (14th Edition), 2011.
Essential References Materials	Peter Markman, Alison L, Heney, Robert Markman, Marie L. Waddell, 10 Steps in Writing the Research Paper, Barron Educational Series Inc (7th Edition), 2011.
Electronic Materials	The list is determined by the supervisor according to the subject.

Other Learning Materials	The list is determined by the supervisor according to the subject.
---------------------------------	--

2. Facilities Required

Item	Resources
Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.)	Classrooms
Technology Resources (AV, data show, Smart Board, software, etc.)	Data show, Smart Board
Other Resources (Specify, e.g. if specific laboratory equipment is required, list requirements or attach a list)	--

G. Course Quality Evaluation

Evaluation Areas/Issues	Evaluators	Evaluation Methods
Revision developmental internal and external	Academic staff	Revision developmental internal and external
Course evaluation survey	Student	Course evaluation survey that the student fill out at the end of the course give feedback about the course.
Direct assessment for learning outcomes	Supervisor	Direct assessment for learning outcomes that the supervisor fill out at the end of the course give feedback about the course.

Evaluation areas (e.g., Effectiveness of teaching and assessment, Extent of achievement of course learning outcomes, Quality of learning resources, etc.)

Evaluators (Students, Faculty, Program Leaders, Peer Reviewer, Others (specify))

Assessment Methods (Direct, Indirect)

H. Specification Approval Data

Council / Committee	Mathematics Department
Reference No.	27
Date	8/8/1442 H-21/3/2021 G

Head of Department

Dr. Muqrin Almuqrin


