





Course Title: Discussion

Course Code:MATH690

Program: Master Program in Mathematics

Department: Mathematics

College: Science

Institution: University of Tabuk, KSA

Version: 2

Last Revision Date:1/12/1443 H





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TPG-153



### Table of Contents

A. General information about the course:	3
1. Teaching mode(mark all that apply)	3
2. Contact Hours (based on the academic semester)	3
C. Course Content	4
D. Students Assessment Activities	5
E. Learning Resources and Facilities	5
1. References and Learning Resources	5
2. Required Facilities and equipment	5
F. Assessment of Course Quality	5
G. Specification Approval Data	5





# A. General information about the course:

Co	Course Identification				
1.	Credit hours:	1 H			
2. (	Course type				
a.	University 🗆	College $\Box$	Department⊠	Track	Others
b.	Required	Elective			
3.	Level/year at whi	ch this course is	offered: Level-3		
4. (	Course general De	escription			
In this course, we will discuss some basic fundamentals issues related to the research topics raised recently. In addition to benefiting from these discussions in preparing research plans and proposed ideas that are suitable for postgraduate students to develop research projects in the most complete and optimal manner.					
5. Pre-requirements for this course (if any): None					
6. Co- requirements for this course (if any): None					
7. (	7. Course Main Objective(s)				

The main objectives are as follows

- **1.** Describe the basic steps in preparing a research project.
- 2. Identify some recent/suitable ideas for research projects in pure/applied mathematics.
- **3.** Discuss thebasic skills for presenting research findings.
- 4. Explain the main contents of a research project.

#### **1.** Teaching mode(mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1.	Traditional classroom	15	100 %
2.	E-learning		
	Hybrid		
3.	<ul><li>Traditional classroom</li><li>E-learning</li></ul>		
4.	Distance learning		

#### 2. Contact Hours (based on the academic semester)

No	Activity	Contact Hours
1.	Lectures	1 H /week
2.	Laboratory/Studio	
3.	Field	





4.	Tutorial	
5.	Others (specify)	
	Total	15

# B. Course Learning Outcomes (CLOs), Teaching Strategies and Assessment Methods

Code	Course Learning Outcomes	Code of CLOs aligned with program	Teaching Strategies	Assessment Methods
1.0	Knowledge and understanding			
1.1	Demonstrate the main areas of interest to preparing researches in pure/applied Mathematics.	К1	Lectures, Group works,	Assignments, Homework, Oral
1.2	Enhance the basic steps of conducting research.	К3	Presentations, Classroom discussion.	presentation. Discussions and Surveys.
2.0	Skills			
2.1	Present research findings in formal ways.	S1		
2.2	Analyze a given mathematical problem	S2	Lectures, Group works,	Assignments, Homework,
2.3	Using fundamental mathematical techniques in preparing a manuscript.	S3	Presentations, Classroom discussion, Seminar, Case study.	Oral presentation. Discussions
2.4	Communicate the research idea accurately using written and oral presentations.	S4		and Surveys.
3.0	Values, autonomy, and responsibili	ty		
3.1	Perform academic integrity and professional ethics when dealing with academic issues.	V1	Lectures, Group works, Presentations,	Assignments, Homework, Oral
3.2	Demonstrate and managing their time and duties with friends and with groups	V2	Classroom discussion, Seminar, Case study.	presentation. discussion.and Surveys.





### C. Course Content

No	List of Topics	Contact Hours
1	Concept of a research in Mathematics	1
2	Contents of a research paper	1
3	Examples of research papers in pure/applied Mathematics	3
6	Recent areas of research	1
7	Preparing a research idea	1
8	Formulating a mathematical problem	1
9	Roles of software to extracting results	1
10	How to write Math research articles.	3
11	How to present research ideas and findings.	1
14	Implementing a specific journal-Latex template	1
15	How to submit a paper to journal	1
	Total	15

## **D. Students Assessment Activities**

No	Assessment Activities *	Assessment timing (in week no)	Percentage of Total Assessment Score
1.	Homework	Weekly basis	25%
2.	Assignment 1	6 <sup>th</sup> weeks	20%
3.	Assignment 2	8 <sup>th</sup> weeks	20%
4.	Assignment 3	12s <sup>th</sup> week	20%
5.	Presentation	At End of Semester	15 %

\*Assessment Activities (i.e., Written test, oral test, oral presentation, group project, essay, etc.)

## E. Learning Resources and Facilities **1. References and Learning Resources**

Essential References	Higham, N. J .Handbook of Writing for the Mathematical
	Sciences, SIAM, Society for Industrial and Applied Mathematics (2019)
Supportive References	NA
Electronic Materials	Saudi Digital Library





2. Required Facilities and equipment

Items	Resources
facilities (Classrooms, laboratories, exhibition rooms, simulation rooms, etc.)	Lecture Room with capacity of 30 students and equipped with White Board, Library
Technology equipment (projector, smart board, software)	Overhead projector and internet connection.
Other equipment (depending on the nature of the specialty)	None

# F. Assessment of Course Quality

Assessment Areas/Issues	Assessor	Assessment Methods
Effectiveness of teaching	Students	Direct and Indirect
Effectiveness of students assessment	Teacher	Direct
Quality of learning resources	Students	Indirect
The extent to which CLOs have been achieved	Teacher, Quality Committee	Direct and Indirect
Other		

Assessor (Students, Faculty, Program Leaders, Peer Reviewer, Others (specify) Assessment Methods(Direct, Indirect)

# G. Specification Approval Data

Council / Committee	Approval by the Department Council
Reference No.	DEPARTMENT COUNCIL NO (26)
Date	11/9/1444 H

