Course Specification

(Postgraduate Programs)

Course Title:	**Reading and Research**
Course Code:	**MAT 7291**
Program:	**Doctor of Philosophy in Mathematics**
Department:	**Mathematics and Statistics**
College:	**Science**
Institution:	**Imam Mohammad Ibn Saud Islamic University**
Version:	**2024 – V1**
Last Revision Date:	**None**

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A. General information about the course:

1. Course Identification:

1. Credit hours:					
3					
2. Course type					
A.	☐ University	☐ College	☒ Program	☐ Track	☐ Others
B.	☒ Required		☐Elective		
3. Level/year at which this course is offered: Level 4 / Year 2					
4. Course General Description:					
This course introduces the student in reading and understanding research methods relevant to areas of future research works. The student reads very specialized articles and books and learns how to analyze research results. By the end of the course, the student should be able to present talks on the subject studied. Reading and research course is selected with the consent of supervisor or the graduate committee.					
5. Pre-requirements for this course (if any):					
None					
6. Pre-requirements for this course (if any):					
None					
7. Course Main Objective(s):					
This course allows the student to work on a material not covered by any other PhD course. In addition, the course enables the student to be more acquainted with some new research topics in a specific field. The topic of the course is suggested by a supervisor in order for a qualified graduate student is prepared for his/her PhD research subject.					

2. Teaching Mode: (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1	Traditional classroom	0	0%
2	E-learning	0	0%
3	Hybrid • Traditional classroom • E-learning	0	0%
4	Distance learning	45	100%

3. Contact Hours: (based on the academic semester)

No	Activity	Contact Hours
1.	**Lectures**	0

2.	Laboratory/Studio	0
3.	Field	0
4.	Tutorial	0
5.	Others (independent study)	45
	Total	65

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

Code	Course Learning Outcomes	Code of PLOs aligned with the program	Teaching Strategies	Assessment Methods
1.0	Knowledge and understanding			
1.1	Research subject dependent.	K1, K2	Self-study	Assignments
2.0	Skills			
2.1	To develop techniques of proof in the corresponding subject.	S1, S2	Deep problems	Presentations
2.2	To develop oral communication and technical writing skills through writing and oral presentation.	S4	Self-study	Participations
2.3	To use Internet in searching for scientific information	S5	Self-study	Presentations
2.4	To carry out deep and not short proofs.	S3	Deep problems	Participations
3.0	Values, autonomy, and responsibility			
3.1	To work with independence and responsibility.	V1, V3	Personal questions	Presentations and discussions
3.2	To collaborate with team works.	V1, V2	Team work	Collaborations

C. Course Content:

No	List of Topics	Contact Hours
1.	Independent research or course of study under the direction of a member of the faculty, which may include research for and preparation of a thesis	45
	Total	45

D. Students Assessment Activities:

No	Assessment Activities *	Assessment timing (in week no)	Percentage of Total Assessment Score
1.	None		
2.			

*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	On the recommendation of supervisor or graduate committee.
Supportive References	On the recommendation of supervisor or graduate committee.
Electronic Materials	On the recommendation of supervisor or graduate committee.
Other Learning Materials	None

2. Educational and Research Facilities and Equipment Required:

Items	Resources
facilities (Classrooms, laboratories, exhibition rooms, simulation rooms, etc.)	▪ Each class room should be equipped with a whiteboard and a projector. ▪ Laboratories should be equipped with computers and an internet connection.
Technology equipment (Projector, smart board, software)	The rooms are equipped with data show and Smart Board.
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:** Questionnaire.
	Course Responsible	**Direct:** Course e-Portfolio.

Assessment Areas/Issues	Assessor	Assessment Methods
		Indirect: Second examiner checklist-Course report.
	Peer Reviewer	**Direct:** Questionnaire. **Indirect:** External assessor report.
Effectiveness of students' assessment	Program Leaders	**Direct:** Course e-Portfolio. **Indirect:** Course report.
Quality of learning resources	Students	**Indirect:** Second examiner checklist-Course report.
	Faculty (Academic Advisory-GCC)	**Direct:** course Entrance/Exit. **Indirect:** Observations - Accreditation review.
	Program Leaders	**Direct:** Course e-Portfolio.
	Course Responsible	**Indirect:** Course evaluation survey- Observations- Syllabus review- Accreditation review.
The extent to which CLOs have been achieved	Course Responsible	**Direct:** Exams - Course e-Portfolio. **Indirect:** Second examiner checklist-Course report.
	Program Leaders	**Indirect:** Exams.
Other	**None**	

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

Assessment Methods (Direct, Indirect)

G. Specification Approval Data:

COUNCIL /COMMITTEE	**MATHEMATICS AND STATISTICS DEPARTMENT COUNCIL**
REFERENCE NO.	**8/1446**
DATE	**05/04/1446 (08/10/2024)**