



Course Specification

(Postgraduate Programs)

Course Title: Thesis

Course Code: Math 699

Program: Master of Science in Mathematics

Department: Mathematics

College: College of Science and Humanities

Institution: Prince Sattam Bin Abdulaziz University

Version: V3

Last Revision Date: Nov 2025

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A. General information about the course:

1. Course Identification:

1. Credit hours: 6(0,0,6)			
2. Course type			
A.	☐ University	☐ College	☒ Department
B.	☒ Required	☐ Elective	
3. Level/year at which this course is offered: (Level 4 onwards)			
4. Course general Description:			
The student performs mentored research independently under the supervision of Academic Supervisor. The research can be in any branch of Mathematics and its applications. The Research work and the Thesis must be prepared in accordance with the prevailing regulations.			
5. Pre-requirements for this course (if any):			
Should have completed atleast 40% of course work.			
6. Co-requirements for this course (if any):			
Nil			
7. Course Main Objective(s):			
To prepare the students to pursue research oriented career in the field of Mathematics.			

2. Teaching Mode: (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1	Traditional classroom		
2	E-learning		
3	Hybrid - Traditional classroom - E-learning	At least one hour per week on mutual agreement with the Supervisor	100%
4	Distance learning		

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

No	Activity	Contact Hours
1.	Lectures	
2.	Laboratory/Studio	
3.	Field	
4.	Tutorial	
5.	Others (specify)..... It is independent research so the student meets the Supervisor at a mutually agreed time for discussion	24
	Total	24



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 understanding of advanced Mathematical concepts, Principles and theories and their applications	K1	Discussion Brainstorming session Task	Evaluation of Thesis by committee constituted by the Department council
1.2	Describe various definitions and theorems and identify the underlying mathematical concepts.	K2		Oral Defense of Thesis by the student
1.3	Identifying relevant research problems in the field of mathematics and describe suitable algorithms.	K3		
2.0	Skills			
2.1	Apply appropriate theories, principles and concepts to solve mathematical problems using various techniques.	S1	Discussion Brainstorming session Task	Evaluation of Thesis by committee constituted by the Department council
2.2	Carryout research in the field of mathematics.	S2		Oral Defense of Thesis by the student
2.3	Exhibit oral and written scientific or technical communication skills.	S3		
3.0	Values, autonomy, and responsibility			
3.1	Work effectively exhibiting integrity and professional value to the assigned task.	V1	Discussion Brainstorming session	Level of compliance to Thesis Regulations.
3.2	Conducting scholarly or professional activities in an ethical manner	V2		

C. Course Content:

No	List of Topics	Contact Hours
1.	This is a Research course, so the student choose the topic of research which was not done before as per the advice of the Supervisor	At least 2 hours a week or based on need
Total		24

D. Students Assessment Activities:

No	Assessment Activities *	Assessment timing (in week no)	Percentage of Total Assessment Score
1.	Writing of Research Proposal and its approval	3	10%
2.	Approval of title by the King Fahad National Library	5	10%
3.	Seminar**	Before submission of thesis to Department	10%
4.	Submission of Thesis and its Defense	Within three semesters after completing the course work	70%

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

** Seminar component added from Cohort 4 onwards.





Evaluation Rubrics of Thesis:

No.	Criteria	Grade					Minimum Requirement
1	Background of the study (5)	Fully adequate	Adequate	Inadequate	--	--	Adequate
2	Significance of the topic(10)	Highly significant	Significant	Not Significant	--	--	Significant
3	Originality and innovation(5)	High	Moderate	Low	--	--	Moderate
4	Methodology used (10)	Theoretical	Laboratory	Field	Modeling	Other	--
5	Documentation and references (5)	Excellent	Very good	Good	Average	Poor	Good
6	Analytical methods (10)	Deep and convincing	fairly deep and convincing	Superficial and unconvincing.	--	--	Fair
7	Level of Objectivity (5)	Methodical and objective	Impressionistic and Subjective	--	--	--	--
8	Writing quality (4)	Excellent	Very good	Good	Average	Poor	Good
9	Organization and coherence (3)	Excellent	Very good	Good	Average	Poor	Good
10	Presentation during defense (10)	Excellent	Very good	Good	Average	Poor	Good
11	Relevance of recommendations to findings (3)	Strong and well-defined	Moderate and acceptable	Weak and marginal	Not applicable.		Moderate

E. Learning Resources and Facilities:

1. References and Learning Resources:

Essential References	Based on the needs of the research topic and as advised by the Supervisor
Supportive References	--
Electronic Materials	--
Other Learning Materials	--

2. Educational and Research Facilities and Equipment Required:

Items	Resources
facilities (Classrooms, laboratories, exhibition rooms, simulation rooms, etc.)	Computer with Mathematical Software as required
Technology equipment (Projector, smart board, software)	Mathematical software based on the research topic
Other equipment (Depending on the nature of the specialty)	Logistic and financial support for helping the student to participate in scientific conferences

F. Assessment of Course Quality:

Assessment Areas/Issues	Assessor	Assessment Methods
Effectiveness of teaching	Student	Indirect
Effectiveness of students assessment	Student	Indirect



Assessment Areas/Issues	Assessor	Assessment Methods
Quality of learning resources	Student / Faculty	Indirect
The extent to which CLOs have been achieved	Faculty / QAAC	Direct and Indirect
Other		

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

Assessment Methods (Direct, Indirect)

G. Specification Approval Data:

COUNCIL /COMMITTEE	DEPARTMENT COUNCIL MEETING 8
REFERENCE NO.	ITEM NO.3(B)
DATE	09.11.2025

