

Course Description Form

1. Course Name:	
Ring theory1	
2. Course Code:	
ScMath 3303	
3. Semester / Year:	
The third phase 2024-2025	
4. Description Preparation Date:	
2024/10/10	
5. Available Attendance Forms:	
In-person education	
6. Number of Credit Hours (Total) / Number of Units (Total)	
45+15 discussions per semester	
7. Course administrator's name (mention all, if more than one name)	
Name: mustafa akram saeed Email: Mustafa.akram@uoanbar.edu.iq	
8. Course Objectives	
Course Objectives	<p>The student learns different examples of rings and their properties</p> <p>How these properties are transmitted through homomorphisms, as well as the basic concepts of models</p> <p>The curriculum achieves the skills required to develop the student's scientific thinking and self-learning</p>
9. Teaching and Learning Strategies	
Strategy	<p>A- Knowledge and understanding</p> <p>1- The student must have sufficient knowledge about different spac</p>

and their definitions
 Explaining the importance of the topic by giving some motivational examples to the student and creating a spirit of competition and encouragement

B- Subject-specific skills
 1- The student must have sufficient knowledge about different spaces and their definitions
 Develop a teaching plan to achieve the desired goals of learning and teaching

C- Thinking skills
 1- Linking the topic theoretically and practically
 2- Raising some questions that allow the student to respond quickly, determine the extent of his attention and the extent of comprehension and understanding
 3- Adopting tests to determine their mental readiness

Assigning the student to solve daily questions, ask new questions, and discuss them with the students

D - General and transferable skills (other skills related to employability and personal development).
 1- A detailed explanation of the meaning of the episode
 Link the topic with other topics

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1.	3	Knowing the meaning of the ring, its properties and its work	Definition of the ring and its properties	theoretical	General questions and discussion
2.	3	Knowing the meaning of the ring, its properties and its work	Definition of the ring and its properties	theoretical	General questions and discussion
3.	3	Knowing the meaning of the ring, its properties and its work	Definition of the ring and its properties	theoretical	General questions and discussion
4.	3	Learn the ring that is part of ring and its properties.	Partial episode	theoretical	Weekly exam
5.	3	Learn the ring that is part of ring and its properties.	Partial episode	theoretical	General questions and discussion
6.	3	Ideal meaning, properties and importance	ideals	theoretical	General questions and discussion

7.	3	Ideal meaning, properties and importance	ideals	theoretical	General questions and discussion
8.	3	Ideal meaning, properties and importance	ideals	theoretical	General questions and discussion
9.	3	How to form a fractional ring and its features	Fractional rings	theoretical	Group assignment
10.	3	How to form a fractional ring and its features	Fractional rings	theoretical	Group assignment
11.	3	How to form a fractional ring and its features	Fractional rings	theoretical	Group assignment
12.	3	The meaning and importance of isomorphism	Ring isomerism	theoretical	General questions and discussion
13.	3	The meaning and importance of isomorphism	Ring isomerism	theoretical	General questions and discussion
14.	3	The meaning and importance of isomorphism	Ring isomerism	theoretical	General questions and discussion
15.	3	The meaning and importance of isomorphism	Ring isomerism	theoretical	Weekly exam

11. Course Evaluation

The endeavour consists of 40 points, including exams, activities, homework and quizzes. The final exam consists of 60 points.

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Introduction to modern abstract algebra by Burton
Main references (sources)	
Recommended books and references (scientific journals, reports...)	Abstract algebra by Burton
Electronic References, Websites	