



T-104  
2022

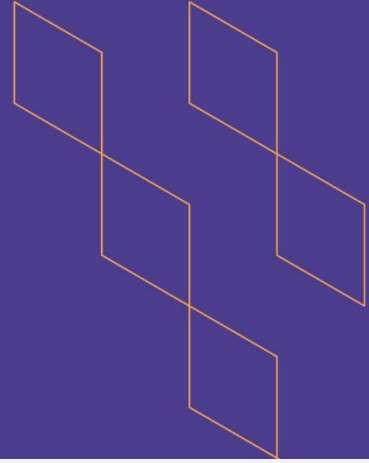
# Course Specification





T-104  
2022

## Course Specification



Course Title:	History of Mathematics
Course Code:	415Math-3
Program:	B.Sc. Mathematics
Department:	Mathematics
College:	Arts and Sciences
Institution:	Najran University
Version:	1
Last Revision Date:	07-05-2023



## Table of Contents:

Content	Page
A. General Information about the course	3
1. Teaching mode (mark all that apply)	3
2. Contact Hours (based on the academic semester)	3
B. Course Learning Outcomes (CLOs), Teaching Strategies and <b>Assessment Methods</b>	4
C. Course Content	4
D. Student 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	6
G. Specification Approval Data	6



## A. General information about the course:

Course Identification	
1. Credit hours:	3
2. Course type	
a.	University <input type="checkbox"/> College <input type="checkbox"/> Department <input checked="" type="checkbox"/> Track <input type="checkbox"/> Others <input type="checkbox"/>
b.	Required <input type="checkbox"/> Elective <input type="checkbox"/>
3. Level/year at which this course is offered:	8 / 4
4. Course general Description	
This course introduces - briefly - the history of mathematics, starting from the civilizations of the ancient East until the twentieth century, passing through the Arab-Islamic civilization	
5. Pre-requirements for this course (if any): <b>None</b>	
6. Co- requirements for this course (if any): <b>None</b>	
7. Course Main Objective(s):	
The main objective of this course is to introduce a brief history of mathematics during the different eras (from the 20th century BC until the 20th century)	

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

No	Mode of Instruction	Contact Hours	Percentage
1.	Traditional classroom	3	100%
2.	E-learning	---	---
3.	Hybrid <ul style="list-style-type: none"> <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	45
2.	Laboratory/Studio	---
3.	Field	---
4.	Tutorial	---
5.	Others (specify)	---
	<b>Total</b>	<b>45</b>



## 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	Describes how mathematics has evolved over a period	K1	Discussion during lecture time	Quiz Written Exam Homework
1.2	List the important mathematicians in a period			
2.0				
2.1	Demonstrate of the beginning of mathematics in the Ancient East	S4	Discussion during lecture time	Quiz Written Exam Homework
2.2	Explain the development of mathematical in the Islamic Civilization period			
2.3	Illustrate how the different branches of mathematics are developed (16th - 20th Century)			
3.0	Values, autonomy, and responsibility			
3.1	Work as part of a team and independently.	V1	Assigning each group of students to collect and write topic in history of mathematics and explain it to their classmates.	Oral Exam Rubrics

## C. Course Content

No	List of Topics	Contact Hours
----	----------------	---------------





1.	A brief history of numbers and arithmetic, mathematics in the Ancient East (Ancient Egypt, Babylonian, Ancient India, Ancient China) and mathematics in the Ancient Greek	15
2.	History of mathematics in the Medieval Islamic World (History of Algebra, Arithmetic, Trigonometry and Geometry)	15
3	History of Mathematics from the 14th Century to the present (History of arithmetic, algebra and number theory, differential and integral calculus, geometry, applied mathematics and the new branches of mathematics). The most famous mathematicians (16th -20th Century)	15
<b>Total</b>		<b>45</b>

## D. Students Assessment Activities

No	Assessment Activities *	Assessment timing (in week no)	Percentage of Total Assessment Score
1.	Midterm Exam (1)	6-8	20
2.	Assignments	During the term	10
3.	Midterm Exam (2)	11-13	20
4.	Final Exam	16-18	50

\*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	Rashad Asharabi, Lecture Notes on The History of Mathematics, Unpublished
Supportive References	None
Electronic Materials	Lectures on the Department of Mathematics YouTube Channel.
Other Learning Materials	None

### 2. Required Facilities and equipment

Items	Resources
-------	-----------



Items	Resources
facilities (Classrooms, laboratories, exhibition rooms, simulation rooms, etc.)	<ul style="list-style-type: none"> <li>Classroom with suitable seats</li> </ul>
Technology equipment (projector, smart board, software)	<ul style="list-style-type: none"> <li>Data show</li> <li>Smart Board</li> <li>Wi Fi</li> </ul>
Other equipment (depending on the nature of the specialty)	<ul style="list-style-type: none"> <li>None</li> </ul>

## F. Assessment of Course Quality

Assessment Areas/Issues	Assessor	Assessment Methods
Effectiveness of teaching	Students	Questionnaire (Indirect)
Effectiveness of students assessment	Peer Reviewer	Rubrics (Indirect)
Quality of learning resources	Peer Reviewer	Rubrics (Indirect)
The extent to which CLOs have been achieved	-	-
Other		

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

**Assessment Methods** (Direct, Indirect)

## G. Specification Approval Data

<b>COUNCIL /COMMITTEE</b>	Council of Mathematics Department
<b>REFERENCE NO.</b>	14441017-0208-00014
<b>DATE</b>	17-10-1444H

