Course Description Form

1. Course Name
Financial Mathematics 1
2. Course Code
FS-21-FM
3. Semester / Year
First Semester / Second Phase / Academic Year 2026-2027
4. Date this description was prepared
10 / 8 /2026
5. Available Forms of Attendance
Morning and evening
6. Number of Hours (Total) / Number of Credits (Total)
30 / 2
7. Course administrator name (if more than one name mentioned)
Name: Eng. Mohamed Haider Mohammed Ema m_hayder_t@hotmail.com
8. Course Objectives

- Cognitive Objectives A1. Knowledge of the relationship between mathematics and finance A2. Applying mathematics in the financial field. A3. Use of Financial Mathematics in Banks A4. Use of Financial Mathematics in Business Administration A5. Linking Financial Mathematics to the Investment Sector **B . Course-specific Skill Objectives**	**Course Objectives** 1- Introducing the basics of financial mathematics and its uses in banking and business administration. 2- Linking mathematics to the financial aspect and its applications in various joints of banking, administrative and financial work. 3- Enriching the student with basic mathematical information that pav the way for entering practical life.

B1- Ability to understand and deal with the basics of financial mathematics B2 – Ability to summarize, read and understand the lesson B3 – Ability to discuss in class B4. Ability to solve mathematical problems of the study class	

9. Teaching and Learning Strategies

Teaching and Learning Strategies	Strategy
1- Giving the theoretical lecture 1- Assigning students with assignments 2- 3. Examining students orally and in writing	

10. Course Structure

Evaluation Method	Learning method	Unit Name or Subject	Required Learning Outcomes	Watches	The week
Oral Questions	Lecture	Chapter One	Introducing simple interest, its types and laws	2	1
Oral Questions	Lecture	Continuation of the first chapter	Illustrative Examples	2	2
A simple daily (written) test on the topic of the lecture	Lecture with Discussion with Learners	Chapter Two	Correct and Commercial Interest	2	3
The extent to which students participated in the discussion about the previous lecture material	Explanation of the lecture material with the participation of students to explain the most important concepts of	Continuation of the second chapter	The benefit of the tiger and the Qawasim method	2	4

	the previous lecture				
Daily oral exam Monthly oral exam Written	Exam		Equal payments with little interest	2	5
Evaluation by participating in the discussion on the topic of the lecture	Lecture	Chapter Three	The relationship between the nominal and real rate	2	6
Evaluate students by asking questions about the topic of the lecture	Lecture		First Final Exam	2	7
Simple daily written test	Lecture	Continuation of Chapter Three	Illustrative Examples	2	8
Evaluation of the required activity in the next lecture Oral questions	Giving a lecture and requesting an activity to be presented in the next lecture	Chapter Four	Postponement of payment to due date	2	9
Evaluate the required activity in the previous lecture	Lecture	Chapter Five	Unequal Premiums	2	10
Second month exam written and daily oral tests	Lecture	Continuation of Chapter Five	Equal periodic installments	2	11
Oral Evaluation	Opening the door for discussion with students and participatio n in the lecture process	Chapter Six	Debt Discount	2	12
The extent of students' participation in the discussion	Lectures and class discussions	Chapter Seven	Commercial Papers Cutting	2	13

about the lecture material	with students				
Ask oral questions	Lecture		Short-term settlements	2	14
Comprehensive Review	**Comprehensive Review**	**Comprehensive Review**	**Debt Replacement**	2	15

11. Course Evaluation

Monthly exams 30%	**Daily attendance and duties 10%**	**Final Exam 60%**

12. Learning and Teaching Resources

The mathematics of money and investment (simple and compound interests) Prof. Abdel Salam Lifta Saeed /20	Required Textbooks (Methodology, if any)
Introduction to Financial Mathematics — Slave Fighter	Main References (Sources)
1- **Financial Mathematics** — Nabil Ibrahim Mahmoud Al-Taie (Dar Al-Shorouk, Amman) 2- **Financial Mathematics** — Fathi Khalil Hamdan 3- **Financial and Actuarial Mathematics** — Jean-Pierre Fäther (book translated from French/English	Recommended books and references (scientific journals, reports...)
Biskra University Platform (Moodle)	Electronic References, Websites

Approval of the Dean of the College
Assoc. Prof. Dr. Talal Faiq Al-Kamali

Authentication of the Head of the Department
Assoc. Prof. Dr. Esraa