Course Specification

(Postgraduate Programs)

Course Title:	**Actuarial and Financial Cases**
Course Code:	**AFM 6297**
Program:	**Executive Master of Science in Actuaries and Financial 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 Lectures, 0 Lab, 2 Tutorial)					
2. Course type					
A.	☐University	☐ College	☐ Department	☐Track	☒ Others
B.	☒ Required		☐ Elective		
3. Level/year at which this course is offered: Level 4 / Year 2					
4. Course general Description:					
This course focuses on the application of actuarial and financial principles to real-world cases. Students will work on projects that simulate professional scenarios, enhancing their analytical, problem-solving, and presentation skills.					
5. Pre-requirements for this course (if any):					
None.					
6. Co-requisites for this course (if any):					
None.					
7. Course Main Objective(s):					
By the end of this course, students will be able to: 1. Analyze complex actuarial and financial data. 2. Apply theoretical knowledge to practical situations. 3. Develop and present comprehensive reports on financial cases. 4. Utilize relevant software tools for data analysis and modeling. 5. Collaborate effectively in teams to solve case studies.					

2. Teaching mode (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1	Traditional classroom	60	100%
2	Blended		
3	E-learning		
4	Distance learning		
5	Other		

3. Contact Hours (based on the academic semester)

No	Activity	Contact Hours
1.	Lecture	30
2.	Laboratory/Studio	0
3.	Seminars	0
4.	Tutorials	30
5.	**Others (specify)**	0
Total		60

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	Recall knowledge and skills to a research problem.	K1, K2	• 2 lecture hours/week	Direct: • Presentations
1.2	Develop a skill set relevant to a specific research project.	K1, K2	• 2 tutorial hours/week • Self-study	Direct: • Assignments • Discussions
2.0	**Skills**			
2.1	Create techniques of proof in the corresponding subject.	S1, S2	• Deep problems	Direct: • Assignments
2.2	Demonstrate oral communication and technical writing skills through writing and oral presentation.	S3	• Self-study	Direct: • Presentations
2.3	Use Internet in searching for scientific information.	S3	• Deep problems	Direct: • Assignments
2.4	Design projects from real life problems.	S1, S2	• Self-study	Direct: • Discussions
3.0	**Values, autonomy, and responsibility**			
3.1	Create connections in groups, adaptable to new circumstances, both independently and in collaboration with others.	V1	• Personal questions	Direct: • Written report • Presentation in face of an experts committee
3.2	Generate the highest standards of ethical conduct and professional behavior, critical, interpersonal and communication skills as well as a commitment to life-long learning.	V2	Teamwork and class discussions.	Direct: • Presentations • Assignments • Discussions

C. Course Content

No	List of Topics	Contact Hours
1.	Actuarial and Financial Cases treated dependent.	60
	Total	**60**

D. Students Assessment Activities

No	Assessment Activities *	Assessment timing (in week no)	Percentage of Total Assessment Score
1.	Written report in English (40-50 pages).	At the end of the semester.	70%
2.	Oral exam: (presentation 20 minutes in English language).	At the end of the semester.	30%

*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	Research subject dependent.
Supportive References	Research subject dependent.
Electronic Materials	Research subject dependent.
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 should be 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	During the semester and at the end of the course each student will complete two evaluation forms.
Effectiveness of Students assessment	Instructor	At the end of each semester the course instructor should complete the course report, including a summary of student questionnaire responses appraising progress and identifying changes that need to be made if necessary.
Quality of learning resources	Students	During the semester and at the end of the course each student will complete two evaluation forms.

Assessment Areas/Issues	Assessor	Assessment Methods
The extent to which CLOs have been achieved	**Instructor**	**At the end of each semester the course instructor should complete the course report, including a summary of student questionnaire responses appraising progress and identifying changes that need to be made if necessary.**
Other	**None**	

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

Assessment Methods (Direct, Indirect)

G. Specification Approval

COUNCIL /COMMITTEE	**MATHEMATICS AND STATISTICS DEPARTMENT COUNCIL**
REFERENCE NO.	**20/1446**
DATE	**11/08/1446 (10/02/2025)**