



Course Specifications

Course Title:	Financial Modeling and Stock Valuation
Course Code:	FIN 462
Program:	BSc in Finance
Department:	Finance Department
College:	CBA
Institution:	Prince Sultan University

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A. Course Identification

1. Credit hours: 1
2. Course type
a. University <input type="checkbox"/> College <input type="checkbox"/> Department <input checked="" type="checkbox"/> Others <input type="checkbox"/>
b. Required <input checked="" type="checkbox"/> Elective <input type="checkbox"/>
3. Level/year at which this course is offered: Year 3, Semester 2
4. Pre-requisites for this course (if any): FIN 310, FIN 320
5. Co-requisites for this course (if any):

6. Mode of Instruction (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1	Traditional Classroom	45	100
2	Blended		
3	E-learning		
4	Distance learning		
5	Other		

7. Contact Hours (based on academic semester)

No	Activity	Contact Hours
1	Lecture	30
2	Laboratory/Studio	15
3	Tutorial	
4	Others (specify)	
	Total	45

B. Course Objectives and Learning Outcomes

1. Course Description

This course is designed to introduce students, and eventually equip them with, the quantitative tools in financial modeling that are necessary for making informed decisions in finance and investment. Using spreadsheets, particularly, Microsoft Excel, students will learn how to optimize the use of spreadsheets in understanding and creating quantitative financial models that are commonly employed in measuring and managing financial risk as well as generating firm's forecasts and predictions.

2. Course Main Objective

The main objective of this course is provide students with the real world environment where they can gain hands-on experience on applying finance theory. After completing this course, the students should be able to:

- Understand the importance of spreadsheets in financial modeling;
- Explain the causal impact of data on a firm's financial overall performance;
- Identify and measure risks faced by the firm based on data analysis;
- Recommend various risk-managing approaches;

- Present forecasts and predictions about the overall financial performance of a firm.
- Construct efficient diversification in portfolio management

3. Course Learning Outcomes

CLOs		Aligned PLOs
1	Knowledge and Understanding	
1.1	Recognize the financial problems to be solved using financial modeling.	PLO 1
1.2	Learn and understand the tools deemed necessary for building financial models.	PLO 1
1.3	Evaluate various tools and select the appropriate ones to be used in constructing a cohesive financial model. decision-making.	PLO 2
1...		
2	Skills :	
2.1	Determine the necessary action plan for designing and developing an efficient and suitable financial model to answer a financial problem or to assess a financial situation.	PLO2, 3
2.2	Measure and estimate the potential risks, both at present and in future.	PLO 2,3
2.3	Forecast and predict the firm's performance based on the data analysis.	PLO 4a,4b
2...		
3	Values:	
3.1	Exhibit teamwork while designing and developing financial models.	PLO 5a
3.2	Demonstrate the ability to prepare and present, both in writing and verbally, the recommended solutions to the financial problems at hands.	PLO 5b
3.3		
3...		

C. Course Content

No	List of Topics	Contact Hours
1	Introduction to Financial Modelling	4
2	Time Value of Money	2
3	Bond Valuation	2
4	Cost of Capital	2
5	Stock Valuation	2
6	Capital Structure	2
7	Capital Budgeting	2
8	Financial Planning	2
9	Ratio Analysis	4
10	Portfolio Management	2
11	Portfolio Performance	2
12	Portfolio Diversification	2
13	Revision	2
Total		30

D. Teaching and Assessment

1. Alignment of Course Learning Outcomes with Teaching Strategies and Assessment Methods

Code	Course Learning Outcomes	Teaching Strategies	Assessment Methods
1.0	Knowledge and Understanding		
1.1	Recognize the financial problems to be solved using financial modeling.	Class lectures and discussions	Quizzes, assignments, exams.
1.2	Learn and understand the tools deemed necessary for building financial models.	Class lectures and discussions	Quizzes, assignments, exams.
1.3	Evaluate various tools and select the appropriate ones to be used in constructing a cohesive financial model. decision-making.	Class lectures and discussions	Quizzes, assignments, exams.
2.0	Skills		
2.1	Determine the necessary action plan for designing and developing an efficient and suitable financial model to answer a financial problem or to assess a financial situation.	Class lectures and discussions; Group discussions	Individual and Group Assignments
2.2	Measure and estimate the potential risks, both at present and in future.	Class lectures and discussions; Group discussions	Individual and Group Assignments
2.3	Forecast and predict the firm's performance based on the data analysis.	Class lectures and discussions; Group discussions	Individual and Group Assignments
3.0	Values		
3.1	Exhibit teamwork while designing and developing financial models.	Class lectures and discussions; Group discussions	Group Assignments
3.2	Demonstrate the ability to prepare and present, both in writing and verbally, the recommended solutions to the financial problems at hands.	Class lectures and discussions; Group discussions	Individual and group assignments.
...			

2. Assessment Tasks for Students

#	Assessment task*	Week Due	Percentage of Total Assessment Score
1	Class Participation	All Weeks	%5
2	Assignments (5 assignments, each 5%)	Week 6 -10	25%
3	Midterm Exam	Week 11 -12	30%
4	Final Examination	Final Exam Period	40%
	Total		%100

*Assessment task (i.e., written test, oral test, oral presentation, group project, essay, etc.)

E. Student Academic Counseling and Support

Arrangements for availability of faculty and teaching staff for individual student consultations and academic advice :

The instructor will allocate three hours of face-to-face meeting per week to discuss problems encountered by the students. Instructor will also make use of emails, LMS and virtual environment (Meet, MS Teams and Zoom) as a medium of communication with the students.

F. Learning Resources and Facilities

1. Learning Resources

Required Textbooks	Holden, Craig W. (2015). <i>Excel Modeling in Investments</i> , 5 th edition, Pearson – Prentice Hall.
Essential References Materials	Benninga, S. (2008). <i>Financial Modeling</i> , 3 rd edition, The MIT Press.
Electronic Materials	Computer labs for software programs, Bloomberg Terminals.
Other Learning Materials	Articles from online databases.

2. Facilities Required

Item	Resources
Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.)	1. Classroom must have the capacity to accommodate a maximum of 30 students. 2. Classroom with projector, computer, whiteboard, internet or WIFI.
Technology Resources (AV, data show, Smart Board, software, etc.)	Internet access, Smart-board, video and audio settings.
Other Resources (Specify, e.g. if specific laboratory equipment is required, list requirements or attach a list)	Microsoft Excel, Spreadsheets, Bloomberg Lab, etc.

G. Course Quality Evaluation

Evaluation Areas/Issues	Evaluators	Evaluation Methods
Strategies for Obtaining Student Feedback on Effectiveness of Teaching	Students	Students' evaluation survey Focus group discussion with small groups of students
Other Strategies for Evaluation of Teaching by the Instructor or by the Department	Chair	Teaching evaluation by the Chair
Achievement of course learning outcomes.	Students	Student's evaluation survey



Evaluation areas (e.g., Effectiveness of teaching and assessment, Extent of achievement of course learning outcomes, Quality of learning resources, etc.)

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

Assessment Methods (Direct, Indirect)

H. Specification Approval Data

Council / Committee	Department Council
Reference No.	AY2022-23/3/221/3
Date	22/11/2022