



Course Specifications

| | |
|----------------------|------------------------------------|
| Course Title: | Applied Finance Lab |
| Course Code: | FIN472 |
| Program: | BSc in Finance |
| Department: | Finance |
| College: | College of Business Administration |
| Institution: | Prince Sultan University |

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A. Course Identification

| | | | |
|--|--|-----------------------------------|--|
| 1. Credit hours: 2 | | | |
| 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: FOURTH | | | |
| 4. Prerequisites for this course (if any): | | | |
| 1. | FIN310 | | |
| 2. | FIN320 | | |
| 5. Co-requisites for this course (if any): | | | |
| NA | | | |

6. Mode of Instruction (mark all that apply)

| No | Mode of Instruction | Contact Hours | Percentage |
|----|-----------------------|---------------|------------|
| 1 | Traditional classroom | 30 | 100% |
| 2 | E-learning | | |
| 3 | Distance learning | | |
| 4 | Other | | |

7. Contact Hours (based on academic semester)

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

B. Course Objectives and Learning Outcomes

1. Course Description

This course will be an advance level based on 'action learning' concept. Purpose of this course to bridge the gap between theory and practice as well as introducing them to the broaden financial community. The course offers hands-on experience with the latest technology, research tools, and databases to solve practical business problems, specifically in the financial markets. It provides the students with an opportunity to expand their classroom learning into the real world. Moreover, this will enable them to apply their existing knowledge as well as learning new skills by integrating use of information technology for better financial decision making.

2. Course Main Objective

Main objectives of this course are:

- Hands-on experience with the latest technology, research tools, and databases to solve practical business problems.
- Integrating use of information technology for better financial decision
- To broaden financial community.



- Use of real time data and exposure to the financial world.

3. Course Learning Outcomes

| CLOs | | Aligned-PLOs |
|------|---|--------------|
| 1 | Knowledge and Understanding: | |
| 1.1 | Recognize the importance of finance knowledge in real world | PLO1 &5b |
| 2 | Skills: | |
| 2.1 | Appraise the risk profile of firms; specifically, estimate the costs of capital, including debt and equity capital using financial data. | PLO 1 &2 |
| 2.2 | Discover Real-World business solutions by using research tools and databases. | PLO3 |
| 2.3 | Demonstrate good communication and numerical/cognitive skills through classroom/lab discussions and report writing/model/software code or combination of deliverables | PLO 4a,4b |
| 3 | Values: | |
| 3.1 | Apply teamwork knowledge and skills for effective collaboration. | PLO 5a |

C. Course Content

| No | List of Topics | Contact Hours |
|--------------|--|---------------|
| 1 | Introduction | 2 |
| 2 | Forecasts firm sales using a long run time series method. | 4 |
| 3 | Sales forecast is used to forecast financial statements with risk. Excel Scenario analysis is introduced. | 4 |
| 4 | Estimates the value of the firms by forecasting free cash flow based on the sales forecast. Stock values and ranges are then estimated. Simple Monte Carlo simulations are introduced. Goal Seek is introduced in this project. | 5 |
| 5 | Estimate the Weighted Average Cost of Capital for the firm. WACC will be used for capital budgeting. | 5 |
| 6 | Estimates the NPV of a capital project with demand curve integration. Discount rates are based on the WACC evaluated in project 4. Unit sales are based on the sales forecast of project 1. Input variables are randomly assigned to each student. | 5 |
| 7 | Monte Carlo Simulation of Capital Budgeting and NPV. This project introduces the method of complex Monte Carlo simulation of joint probability distributions of key variables and is one method to assess the risk of the capital project. | 5 |
| 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 importance of finance knowledge in real world | Lecture & Lab, Assignments on LMS, Group work, Guest speaker talks from Industry | Major exam, final examination & Term Project |
| 2.0 | Skills: | | |
| 2.1 | Appraise the risk profile of firms; specifically, estimate the costs of capital, including debt and equity capital using financial data. | Lecture & Lab, Assignments on LMS, Group work, Guest speaker talks from Industry | Major exam, final examination & Term Project |
| 2.2 | Discover Real-World business solutions by using research tools and databases. | Lecture & Lab, Assignments on LMS, Group work, Guest speaker talks from Industry | Major exam, final examination & Term Project |
| 2.3 | Apply teamwork knowledge and skills for effective collaboration. | Lecture & Lab, Assignments on LMS, Group work, Guest speaker talks from Industry | Major exam, final examination & Term Project |
| 2.4 | Demonstrate good communication and numerical/cognitive skills through classroom/lab discussions and report writing/model/software code or combination of deliverables | Lecture & Lab, Assignments on LMS, Group work, Guest speaker talks from Industry | Major exam, final examination & Term Project |
| 3.0 | Values: | | |

2. Assessment Tasks for Students

| # | Assessment task* | Week Due | Percentage of Total Assessment Score |
|---|------------------|----------|--------------------------------------|
| 1 | Major Exam | 7 | 20% |
| 2 | Lab Assignments | Ongoing | 10% |
| 3 | Term Project | 13 | 30% |
| 4 | Final Exam | 15 | 40% |

*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:



F. Learning Resources and Facilities

1. Learning Resources

| | |
|---------------------------------------|--|
| Required Textbooks | None. Instead, we have a list of recommended readings. |
| Essential References Materials | |
| Electronic Materials | Bloomberg Terminals |
| Other Learning Materials | YouTube tutorials, Bloomberg tutorials. Reading material from research journals when applicable. |

2. Facilities Required

| Item | Resources |
|---|--|
| Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.) | Size of classroom must occupy maximum up to 25 students. Classroom with projector, computer, whiteboard, internet or WIFI |
| Technology Resources (AV, data show, Smart Board, software, etc.) | Bloomberg Lab, Internet access, Smart-Board |
| Other Resources (Specify, e.g., if specific laboratory equipment is required, list requirements or attach a list) | |

G. Course Quality Evaluation

| Evaluation Areas/Issues | Evaluators | Evaluation Methods |
|--|--------------------------|--|
| Effectiveness of teaching and assessment | Students | Student's evaluation survey (SES) |
| Quality of learning resources | Students & Peer Reviewer | Focus group discussion |
| Extent of achievement of course learning | Chairperson | Class Observation and general feedback |

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 |

