



Course Specifications

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|----------------------|---|
| Course Title: | Business Statistics II |
| Course Code: | STAT1221 |
| Program: | Finance and Banking |
| Department: | Finance & Banking |
| College: | College of Business Administration |
| Institution: | Dar AlUloom University |

Table of Contents

| | |
|---|----------|
| A. Course Identification | 3 |
| 6. Mode of Instruction (mark all that apply) | 3 |
| B. Course Objectives and Learning Outcomes | 3 |
| 1. Course Description | 3 |
| 2. Course Main Objective..... | 4 |
| 3. Course Learning Outcomes | 4 |
| C. Course Content | 4 |
| D. Teaching and Assessment | 4 |
| 1. Alignment of Course Learning Outcomes with Teaching Strategies and Assessment Methods | 4 |
| 2. Assessment Tasks for Students | 4 |
| E. Student Academic Counseling and Support | 5 |
| F. Learning Resources and Facilities | 5 |
| 1. Learning Resources | 5 |
| 2. Facilities Required..... | 6 |
| G. Course Quality Evaluation | 6 |
| H. Specification Approval Data | 6 |

7. Course Identification

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|--|
| 1. Credit hours: 3 Hours |
| 2. Course type |
| a. University <input type="checkbox"/> College <input checked="" type="checkbox"/> Department <input 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 Level/Second year |
| 4. Pre-requisites for this course (if any): STAT1121 |
| 5. Co-requisites for this course (if any): NIL |

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 | Correspondence | | |
| 5 | Other | | |

7. Actual Learning Hours (based on academic semester)

| No | Activity | Learning Hours |
|------------------------------|---------------------------------|----------------|
| Contact Hours | | |
| 1 | Lecture | 45 |
| 2 | Laboratory/Studio | |
| 3 | Tutorial | |
| 4 | Others (specify) | |
| | Total | 45 |
| Other Learning Hours* | | |
| 1 | Study | 1 |
| 2 | Assignments | 1 |
| 3 | Library | |
| 4 | Projects/Research Essays/Theses | 2 |
| 5 | Others (specify) | |
| | Total | 4 |

* The length of time that a learner takes to complete learning activities that lead to achievement of course learning outcomes, such as study time, homework assignments, projects, preparing presentations, library times

B. Course Objectives and Learning Outcomes

1. Course Description

Business Statistics II designed to focus on inferential statistics. The topics covered in the course include review of probability distribution, central limit theorem, sampling distribution, point estimation, and confidence intervals. The course also covers hypothesis testing and statistical inference using t-test about the mean and Chi-square tests for goodness of fit and independence.

2. Course Main Objective

- Provide basic knowledge about inferential statistics for the purpose of making effective business decisions.
- Introduce students to point estimation and interval construction.
- Introduce students to hypothesis testing.

3. Course Learning Outcomes

| CLOs | | Aligned PLOs |
|----------|--|--------------|
| 1 | Knowledge: | |
| 1.1 | Recognize the major techniques of estimating & hypothesis | K.1 |
| 1.2 | Recognize the major techniques of correlation, regression, tests of Goodness of Fit and Independence | K.1 |
| 2 | Skills: | |
| 2.1 | Analyze statistical information about populations in the context of real-world settings. | S.1 |
| 2.2 | Construct and interpret the results of Goodness of Fit, Independence tests, correlation and regression models. | S.1 |
| 3 | Competence: | |
| 3.1 | Develop team work and participation spirit that will help them in real life work environment to be successful team player. | C.1 |
| 3.2 | Develop leadership skills to lead a group in work groups. | C.2 |
| 3.3 | Evaluate written communication skills and develop fast ways of handling numerical task using statistical tools. | C.4, C.5 |

C. Course Content

| No | List of Topics | Contact Hours |
|--------------|--|---------------|
| 1 | Review of Probability Distributions | 6 |
| 2 | Sampling Distribution and Central Limit Theorem | 6 |
| 3 | Point Estimation and Confidence Intervals | 9 |
| 4 | Introduction to Hypothesis Testing | 6 |
| 5 | T-tests about One-sample Mean | 6 |
| 6 | T-tests about Two-sample Means | 6 |
| 7 | Chi-Square Tests for Goodness-of-Fit and Independence. | 6 |
| Total | | 45 |

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 | | |
| 1.1 | Recognize the major techniques of estimating & hypothesis | Direct Indirect | Quizzes Homework Midterm exam Final exam |
| 1.2 | Recognize the major techniques of regression, tests of Goodness of Fit and Independence | Direct Indirect | Quizzes Homework Midterm exam Final exam |
| 2.0 | Skills | | |

| Code | Course Learning Outcomes | Teaching Strategies | Assessment Methods |
|------------|--|---------------------|---|
| 2.1 | Analyze statistical information about populations in the context of real-world settings. | Direct Indirect | Quizzes Homework Midterm exam Final exam |
| 2.2 | Construct and interpret the results of Goodness of Fit, Independence tests, correlation and regression models. | | |
| 3.0 | Competence | | |
| 3.1 | Develop team work and participation spirit that will help them in real life work environment to be successful team player. | Interactive | Projects Group work |
| 3.2 | Develop leadership skills to lead a group in work groups. | | |
| 3.3 | Evaluate written communication skills and develop fast ways of handling numerical task using statistical tools. | | |

2. Assessment Tasks for Students

| # | Assessment task* | Week Due | Percentage of Total Assessment Score |
|---|-------------------------------|------------|--------------------------------------|
| 1 | Quiz | Continuous | 10% |
| 2 | Homework/Assessments/Projects | Continuous | 20% |
| 3 | Mid term | 9 | 30% |
| 4 | Final Exam | 16 | 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:

1. Eight Office hours weekly can be booked through the students' SIS account.
2. Online discussion through the LMS forums and instant messaging.
3. Instructor email available in the course syllabus.
4. Occasional mobile calls or SMS for urgent messages.

F. Learning Resources and Facilities

1. Learning Resources

| | |
|---------------------------------------|---|
| Required Textbooks | Business Statistics: A Decision-Making Approach”, 10th edition (Global edition), Groebner, D., Shannon P. and Fry, P., Pearson Education - Prentice Hall (2018), 866 pages. |
| Essential References Materials | |
| Electronic Materials | Study materials are available through online resources available from the publisher www.cengage.com |
| Other Learning Materials | MS Excel Software |

2. Facilities Required

| Item | Resources |
|--|---------------------------|
| Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.) | Classroom. |
| Technology Resources (AV, data show, Smart Board, software, etc.) | Data show + smart boards. |
| Other Resources (Specify, e.g. if specific laboratory equipment is required, list requirements or attach a list) | Internet access point. |

G. Course Quality Evaluation

| Evaluation Areas/Issues | Evaluators | Evaluation Methods |
|---|---|--|
| End of semester Course Evaluation. | <ul style="list-style-type: none"> Students | <ul style="list-style-type: none"> Indirect |
| Effectiveness of teaching and assessment. | <ul style="list-style-type: none"> Peer reviewer | <ul style="list-style-type: none"> Indirect |
| Course learning outcomes assessment. | <ul style="list-style-type: none"> Faculty members | <ul style="list-style-type: none"> Direct |
| Quality of learning resources | <ul style="list-style-type: none"> Students | <ul style="list-style-type: none"> Indirect |

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 | Finance Department (First semester 2018/2019) |
| Reference No. | Meeting number 6 |
| Date | 2018 |