Course Specification

— (Bachelor)

Course Title: **Statistical Methods**

Course Code: **BIDA127**

Program: **Business Intelligence and Data Analysis**

Department: **computer**

College: **Applied College**

Institution: Najran Universit **y**

Version: **1**

Last Revision Date: 13\12\1446 *Pick Revision Date.*

Table of Contents

A. General information about the course:

1. Course Identification

1. Credit hours: (3 hours)
3

2. Course type				
A.	☐University	☐ College	☐ Department	☐Track	☐Others
B.	☒Required			☐Elective	

3. Level/year at which this course is offered: (Ist Year, Term2……….)

4. Course General Description:

 Examines the use of statistical methods to make predictions, estimate parameters, and

test hypotheses. Learners display data with graphs, describe distributions with numbers,

perform correlation and regression analyses and design experiments.

5. Pre-requirements for this course (if any): MATH100

no

6. Co-requisites for this course (if any): N\A

no

7. Course Main Objective(s):

ntroduces students to the use of statistical methods in business intelligence and data
.analysis
Prepares students to apply the basic principles of regression analysis and .correlation
Students learn to prepare graphs and other visual representations of .statistical data

2. Teaching mode (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1	Traditional classroom	48	100
2	Blended		
3	Hybrid • E-learning		
4	Distance learning		
5	Other		

3. Contact Hours (based on the academic semester)

No	Activity	Contact Hours
1.	**Lectures**	24
2.	**Laboratory/Studio**	24
3.	**Field**	
4.	**Tutorial**	
5.	**Others (specify)**	
Total		48

B. Course Learning Outcomes (CLOs), Teaching Strategies and Assessment Methods

Code	Course Learning Outcomes	Code of PLOs aligned with the program	Teaching Strategies	Assessment Methods
1.0	**Knowledge and understanding**			
1.1	**K1 Summarize the basic priniples and concepts of statistics**	**K1**	**Reading Presentation Class Discussion Internet research**	**Quiz**
1.2	**K2 Explain the role of statistics in business data analysis**	**K2**	**Reading** Presentation **Class Discussion Internet research**	**Quiz**
...				
2.0	**Skills**			
2.1	**S1Apply fundamenta**	**S1**	**Reading Presentation**	**Exam Lab Activities**

Code	Course Learning Outcomes	Code of PLOs aligned with the program	Teaching Strategies	Assessment Methods
	Conceptsof descriptiv statistics		Class Discussion Lab A Ctivities	
2.2	S2 E Mmploy basic princiles of regession analysis and correlation to analyze relationships between variables	S2	Reading Presentation Class Discussion Lab A Ctivities	Exam Lab Activities
2.3...	S3 Apply probability theoey and distributions to analyze random phenomena	S3	Reading Presentation Class Discussion Lab A Ctivities	Exam Lab Activities
2,4	S4 Apply basic statistical analysis methods to interpret data, formulate and test hypotheses, and drw valid conclusion		Reading Presentation Class Discussion Lab A Ctivities	Exam Lab Activities
3.0	Values, autonomy, and responsibility			
3.1	V1 Adhere to data ethics		Group project CaseStudy problrms	Exam CaseStudy problem
3.2	V2 Demonstrate Professionalism		Group project CaseStudy problrms	Exam CaseStudy problem
3.3..	V3 Communicate effectively with a range of audiences		Group project CaseStudy problrms	Exam CaseStudy problem

C. Course Content

No	List of Topics	Contact Hours
1.	Introduction to Business Statistics: Fundamentals and Application	5
2.	Descriptive Statistics: Analyzing and Summarizing Data in Business	5
3.	Probability and Probability Distribution:Understanding Uncertainty in Business	5

4.	Sampling Techniques and Sampling Distribution:Deawing Inferences from Data	5
5.	Hypothesis Testing: Making Informed Decisions in Business	5
6	Regression Analysis: Predicting and Modeling Relationships in Business	5
7	Time Series Analysis: Forecasting Trends and Patterns in Business Data	5
8	Anlysis of Variance(ANOVA): Comparing Means in Business Experiments	5
9	Nonparametric Methods: Analyzing Data when Assumptions are Violated	4
10	Multivariata Analysis: Exploring Relationships among Multiple Variables in business	4
Total		**48**

D. Students Assessment Activities

No	Assessment Activities *	Assessment timing (in week no)	Percentage of Total Assessment Score
1.	Midterm Exam	8	25%
2.	Homework's	During Semester	15%
3.	Practical Exam	14	20%
...	Final Exam	End of semester	40%

*Assessment Activities (i.e., Written test, oral test, oral presentation, group project, essay, etc.).

E. Learning Resources and Facilities

1. References and Learning Resources Title: Introduction to Business Statistice

Publisher: Cengage Learning

Published year.2010

Author:Ronald M. Weiers

ISBN: 9781111792374

Essential References	
Supportive References	
Electronic Materials	
Other Learning Materials	

2. Required Facilities and equipment

Items	Resources
facilities (Classrooms, laboratories, exhibition rooms, simulation rooms, etc.)	Classroom IT Lab
Technology equipment (projector, smart board, software)	**Smartboard** **Presentation Technology** **Computer with MS Office**
Other equipment (depending on the nature of the specialty)	

F. Assessment of Course Quality

Assessment Areas/Issues	Assessor	Assessment Methods
Effectiveness of teaching	**Students, External Reviewers Visit from Accreditation Agen-cy**	**Survey**
Effectiveness of Students assessment	**Program L eader**	**Observation(Direct)**
Quality of learning resources	**Quality and Development Unit** **Curriculum Committee**	**Teachers feedback, Sudents feed bak,Course report,** **Pro-fessional certification achievement test**
The extent to which CLOs have been achieved	**Quality and Development Unit** **Curriculum Committee**	**Annual quality improvement program review**
Other		

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

Assessment Methods (Direct, Indirect)

G. Specification Approval

COUNCIL /COMMITTEE	المجلس التنفيذي
REFERENCE NO.	**4600081176**
DATE	**22\12\1446**