



Course Specifications

Course Title:	Applied Statistics
Course Code:	195MATH
Program:	MMET, EPET, CHET
Department:	Basic Sciences and supporting studies
College:	College of Applied Industrial Technology
Institution:	Jazan University

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A. Course Identification

1. Credit hours: 2hrs
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 level/2 nd year
4. Pre-requisites for this course (if any): None
5. Co-requisites for this course (if any): None

6. Mode of Instruction (mark all that apply)

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

7. Contact Hours (based on academic semester)

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

B. Course Objectives and Learning Outcomes

<p>1. Course Description</p> <p>This course of Applied Statistics covers the following topics:</p> <p>Frequency distributions and their graphs, Mean, Median, Mode, Range, Deviation, variance, Correlation and regression, Probability and Probability distribution.</p> <p>The course is introduced through one hour lecture and one hour tutorial weekly.</p>
<p>2. Course Main Objective</p> <p>The course aims to teach the students the basic and fundamental statistical concepts required for technical courses.</p> <ol style="list-style-type: none"> 1. Perform operations on data and construct frequency distributions. 2. Draw the graphs of data distributions. 3. Evaluation of mean, median, mode, deviation, standard deviations. 4. Construction of scatter plots, correlation, regression. 5. To find probability, conditional probability, dependent events. 6. Explain the concepts of probability distributions.

3. Course Learning Outcomes

CLOs		Aligned PLOs
1	Knowledge and Understanding	
1.1	Show knowledge of Data handling, qualitative and quantitative data, frequency distribution and graphs.	K1
2	Skills :	
2.1	Identify the difference between grouped data and ungrouped data, measure of central tendency.	S1
2.2	Carry out analysis of correlation and regression, correlation coefficient and its properties.	S2
2.3	Carry out analysis of probability and probability distributions, Sample space, complement of an event.	S2
3	Values:	
3.2	Demonstrate the ability to work independently and meet deadlines.	V1

C. Course Content

No	List of Topics	Contact Hours
1	Introduction to Statistics	8
2	Measure of central tendency and dispersion	8
3	Correlation and Regression	6
4	Probability and Probability distribution	8
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	Show knowledge of Data handling, qualitative and quantitative data, frequency distribution and graphs.	Lecture, tutorial, active learning	Quizzes, Assignments, exams
2.0	Skills		
2.1	Identify the difference between grouped data and ungrouped data, measure of central tendency.	Lecture, tutorial, active learning	Quizzes, Assignments, exams
2.2	Carry out analysis of correlation and regression, correlation coefficient and its properties.		
2.3	Carry out analysis of probability and probability distributions, Sample space, complement of an event.		
3.0	Values		
3.1	Demonstrate the ability to work independently and meet deadlines.	Lecture, tutorial, active learning	Quizzes, Assignments, exams

2. Assessment Tasks for Students

#	Assessment task*	Week Due	Percentage of Total Assessment Score
1	Quiz 1	Week 4	10%
2	Quiz 2	Week 12	10%
3	Assignments, home work and participation in classroom	All weeks	10%
4	Midterm	Week 8	20%
5	Final Term Exam	As scheduled	50%

*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 :

Office hours are specified and instructors can be reached through emails.

F. Learning Resources and Facilities

1. Learning Resources

Required Textbooks	<ul style="list-style-type: none"> Lecture Notes Elementary Statistics, a step by step Approach: Bluman, A.G. 6th Edition, McGraw Hill 	
Essential References Materials	<ul style="list-style-type: none"> Not utilized 	
Electronic Materials	<ul style="list-style-type: none"> Not utilized 	
Other Learning Materials	<ul style="list-style-type: none"> Not utilized 	

2. Facilities Required

Item	Resources
Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.)	Classrooms should be furnished for 25 students with <ul style="list-style-type: none"> White board Appropriate Chairs
Technology Resources (AV, data show, Smart Board, software, etc.)	<ul style="list-style-type: none"> Not utilized.
Other Resources (Specify, e.g. if specific laboratory equipment is required, list requirements or attach a list)	<ul style="list-style-type: none"> Not utilized.

G. Course Quality Evaluation

Evaluation Areas/Issues	Evaluators	Evaluation Methods
Confidential student Course Evaluation Survey	Institution	Online Direct Survey
End of semester CLO	Course Coordinator	Direct 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	03
Reference No.	01/03/1441/1442
Date	03/03/2021

