



# The Islamia University Of Bahawalpur,

## BAHAWALNAGAR CAMPUS DEPARTMENT OF APPLIED PSYCHOLOGY BS 5<sup>th</sup> Semester (M) \_\_\_\_\_ Statistics in Psychology

**Instructor** Dr. Rafaquat Ali  
**Class days** Monday and Friday

**Class Room** 2  
**Class Timing:** 09:00 AM TO 10:30 AM (Monday)  
10: 30 AM TO 12:00 Noon (Friday)

### Course Outline

#### Course Objective:

The objectives of this course are following:

- To provide basic understanding of statistics.
- To enable students to grasp importance of statistics in Psychology.
- To provide an understanding of descriptive and inferential statistics.
- To use basic formulas and tests of statistics for education and research purposes.

#### Teaching Methodology:

- The class will be conducted in a lecture & discussion environment where the class Instructor will lead the discussions, and students will be encouraged to participate and ask questions at the end of each class session.
- Students will be expected to read assignments in advance. This will be tested through quizzes which may proceed any class session.

#### Text Books/ Reading Material:

- Educational Statistics by AIOU Islamabad
- Educational Psychology by John W. Santrock
- Educational Psychology by Anita Woolfolk
- Advanced Educational Psychology by Sharma Seema

#### Course Contents:

Weeks	Sessions	Topics
1	1	Definition and functions Statistics
	2	Scope of Statistics
2	3 & 4	Application of Statistics in Educational Research
3	5	Descriptive and Inferential Statistics
	6	Variables
4	7 & 8	Scales of Measures
5	9 & 10	Types of Population and Sample
6	11 & 12	Exploratory Data Analysis
7	13 & 14	Descriptive Statistics: Measures of Central Tendency
8	15	Mean
	16	Median & Mode
		<b>Mid Term</b>
9	17 & 18	When to use mean, median and mode
10	19	Measures of Dispersion
	20	Range, Mean Deviation
11	21	Variance
	22	Normal Curve
12	23	Inferential Statistics
	24	Importance of Inferential Statistics in Research

13	25 & 26	Hypothesis Testing
14	27 & 28	T-Test
15	29 & 30	Correlation
16	31	ANOVA
	32	Chi Square (X2)

### **FINAL TERM**

#### **Testing and Grading:**

1. Learning will be accomplished through lecture, class exercises and student participation in the class discussion and presentations.
2. Grading will tend to focus on your overall performance rather than one or two aspects. A mid term examination and a comprehensive final examination will be given.
3. Another portion of the course grade will include the discussion/attendance grade, quizzes, and other assignments.
4. The mid-term examination will be graded for 30 points and the final examination will have a value of 50 points.
5. Excessive absences(more than 03) will result in "F Grade"
6. Test Questions may be taken from text book readings, hypertext material discussed in class and other assigned readings.
7. Students may prepare notebooks for taking notes and for references.

#### **Marks Distribution:**

Sessional	20
Mid Term	30
Final Exam	<u>50</u>
Total	100

#### **Please Note:**

In the unlikely event of an unplanned absence by the instructor, the material to have been covered during that class meeting will be shifted to the next meeting. If a test/presentation was scheduled for that class meeting that will be given during the next class meeting. In the event of any necessary planned absences, information on schedule changes will be provided in advance.