



The Islamia University of Bahawalpur,  
Bahawalnagar Campus

DEPARTMENT OF APPLIED PSYCHOLOGY

Tentative Course Plan

Instructor	Ahmed Mujtaba Owaisi	Email	psychologistpanel@gmail.com
Course Title	Behavioral Statistics & Computer Applications	Program	MSc 2 <sup>nd</sup> (M) Semester (FA 2019-21)
Course Code	PSY-	Credit Hours	3
Lecture	Wednesday (12:30 pm to 03:30 pm) & Thursday (12:30 pm to 02:00 pm), Lab # 1		
<b><u>Course Objective:</u></b> <ul style="list-style-type: none"><li>□ The main aim is to familiarize students with history, main concepts, methods, and theoretical frameworks in Clinical Assessment &amp; Diagnosis.</li><li>□ This course will provide students with an understanding basic principles and psychological theories to understand clinical assessment of abnormal behavior, personality conflicts/issues and psychological disorders and to diagnose them.</li></ul> <b><u>Course Outcomes:</u></b> <p>Upon successful completion of this course the students will be able to describe:</p> <ul style="list-style-type: none"><li>□ Have a grasp over basic concepts and theoretical perspectives explaining abnormal behavior.</li><li>□ The field of abnormal psychology and its importance to the broader field of Psychology.</li></ul>			
<b>Methods of Teaching</b> <ul style="list-style-type: none"><li>□ Assigned readings</li><li>□ Group activities &amp; Discussion</li><li>□ Audiovisual aids lectures</li><li>□ Web-assisted instruction</li><li>□ Student-Directed Teaching</li></ul>			
Resource Material	1.Books Prescribed: <ul style="list-style-type: none"><li>1. Aron, A., &amp; Aron, E. N. (2013). <i>Statistics for psychology</i>. Prentice-Hall, Inc.</li><li>2. AIOU Handbook on Educational Statistics (8614)</li></ul>		
	Reference Books Chicago		
	I	Field, A. (2013). <i>Discovering statistics using IBM SPSS statistics</i> . sage.	
	4.Web Resources Chicago		
	I	(I). <a href="http://www.psychologistpanel.com">www.psychologistpanel.com</a> (II).Ocw.vu.edu.pk	
Office Help Hours	08:00am-08:00pm Monday to Friday		
Problem Session	Through email and whatsapp		

SEQUENCE OF TOPICS TO BE COVERED			
Session #	Topics (outline of main topics and sub topics)	Chapter #	Tutorial /Laboratory
1	Introduction Background of Statistics Use of Statistics, and limitations	1	Class Discussion
2	Functions of Statistics Use of Statistics in Daily Life Use of Statistics in Psychology	1	Class Discussion
3	Types of statsitics Variables and Types of variables	2	
4	The Scientific Method & Statistics Types of Data,	2	Demonstrati on
5	Differences Between primary And Secondary Data Population, Sample, Sampling techniques	2	Class Discussion & Demonstration
6	Frequency and Graphs Histograms and Polygons		
7	Shape and Other Characteristics of Graphs	3	Class Discussion & Demonstration
8	Box plots, scatterplots pie chart and their use		
9	Inferential Statistics Areas of Inferential Statistics	6	Demonstration
10	Logic of Inferential Statistics Importance of Inferential Statistics in Research		
11	Hypothesis Testing Logic of Hypothesis Testing Steps of Hypothesis Testing Types of Errors	6	Demonstration
12	Measures of Central Tendency Calculation of Measures of Central Tendency	5	Class Discussion & Demonstration
13	Presenting in Graphs		
14	Introduction to Variance Measurement Practice Introduction to Standard Deviation	7	Class Discussion & Demonstration
15	Measuring difference between variables Introduction and types of t-test	7	Class Discussion & Demonstrat ion
16			
Mid-Term Exam			
17	Use of t-test and examples Degrees of Freedom Interpretation of scores	7	Class Discussion & Demonstration
18			
19			
20	Introduction to Correlation Relationship, direction of relationship	14	Class Discussion & Demonstrat ion
21	Types of Correlation Use of correlation		
23	Pearson Correlation Using and Interpreting Pearson Correlation The Spearman Correlation	17	
24			

25	Introduction to Regression <b>Objectives of Regression Analysis</b> <b>Why do we use Regression Analysis</b> <b>Types of Regression</b>	16	Class Discussion & Demonstration
26			
27			
28	Probability Calculation of Probability	12	Class Discussion & Demonstration
29	Introduction to Statistical Package for Social Sciences (SPSS) Data view Variable View	Slides	Class Discussion & Demonstration
30	Data Entry in SPSS Errors in data entry	Slides	Class Discussion & Demonstration
31	Using SPSS for Data analysis Graphs t-test Correlation	Slides	Class Discussion & Demonstration
32	Presentations		
Final Term Exam			

**Student Evaluation Criteria:**

<input type="checkbox"/> Attendance	5
<input type="checkbox"/> Workshop / Assignments / Case study	5
<input type="checkbox"/> Surprise Test / Sudden Test / Quizzes	5
<input type="checkbox"/> Class Participation	5
<input type="checkbox"/> Mid Term Paper	30
<input type="checkbox"/> Final Term Paper	50
<input type="checkbox"/> Practical Work (Clinical Assessment & Diagnosis Report)	34
Total	134

**Student Responsibilities:**

Students must attend their classes. Failure to attend the class may result in failure in the course. Students must also arrive on time and remain in the class for the entire period. Cellular Phones and Beeper must be Turned off (Proper classroom decorum [behavior] adopts, Course outlines and calendars explain requirements and assignments, students are responsible for knowing what they say. Students are also responsible for doing all assigned work on time. Excessive absences (more than 03) will result in “F Grade”. Students may prepare Sketchbook for taking notes and for references.

Instructor

Approved by:

Dean/ Chairman/ HOD/ Subject Specialist/ Program Coordinator