



DEPARTMENT OF BOTANY
Tentative Course Plan

Class: Bs (Botany)

Semester-6th

Session: Fall (2017-2021)

Instructor	Sadia Sarwar	Email: botanist_iub18@yahoo.com	
Course Title	Research Methodology	Program	BS
Course Number	BOTA-01606	Credit Hours	1(1+1)

Lecture day: period (00:00a.m to00: 00p.m), Room# 00

Course Objective:

Research methodology is the specific procedures or techniques used to identify, select, process, and analyze information about a topic. In a research paper, the methodology section allows the reader to critically evaluate a study's overall validity and reliability. Research methodology is a systematic way to solve a problem. It is a science of studying how research is to be carried out. Essentially, the procedures by which researchers go about their work of describing, explaining and predicting phenomena are called research methodology. It is also defined as the study of methods by which knowledge is gained. Its aim is to give the work plan of research.

Methods of Teaching

- Assigned readings
- Group activities & Discussion
- Audiovisual aids lectures
- Web-assisted instruction
- Student-Directed Teaching

Resource Material

1. Text Books

- Flick, U. 2011. Introducing Research Methodology. Blackwell publisher.
- Frances, C. D. 2010. Evaluating Research Methodology. SAGE Publishers.

2.Reference Books

i

ii

3.Research Papers

i

ii

4.Hot Research Papers

i

ii

5.Web Resources

i

ii

Office Help Hours

Grading

Exam (Date to be announced)
Mid- Exam (30%) Final Exam (50%)
Problem Session/Assignments (20%)

Problem Session

.....day: 00 and 00 periods (0:00-00:00am), Room# 00

SEQUENCE OF TOPICS TO BE COVERED

Lecturer #	Topics (outline of main topics and sub topics)	Chapter #	Tutorial /Laboratory
1	Course introductory lecture.		
2	What is science, Philosophy and theory?		.
3	How to do science?		.
4	Questions, hypothesis, their type		.
5	Experimentation, Validation, Theories and laws?		
6	Research methods: planning research, Various research methods.		
7	Analyzing results, giving reports etc.		
8	Research process including : Formulating research questions. Sampling (probability, and non probability).		

Mid Term Exam Class discussion

9	Measurements (surveys, qualitative, unobtrusive).		
10	Research design (experimental and quasi— experimental).		
11	Data analysis. Writing research paper.		
12	The major theoretical and philosophical underpinnings of research.		
13	The idea of validity in research; reliability of measures and ethics.		
14	Presentation relating to the subject.		
17	Formulating research proposal and submission.		
Final Term Exam			

Student Evaluation criteria:

Attendance	5%
Workshop / Assignments/Case study	5%
Surprise Test/Sudden Test , Quizzes	5%
Class Participation	5%
Mid Term Paper	30%
Final Term paper	50%
Total	100%

Student Responsibilities:

Students must attend class. Failure to attend class may result in failure in the course. Students must also arrive on time and remain in 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 / Tutor

Approved by:

Chairman