

ALLAMA IQBAL OPEN UNIVERSITY, ISLAMABAD
(Department Secondary Teacher Education)

Dear Student,

I feel great pleasure to welcome you to the PhD (Education)
Course Code-4775, titled, “Instrumentation in Educational Research”.

I hope that you will enjoy the course as it will expose you to the field of instrumentation with specific reference to educational research. You will be dealing with different procedures of valid and reliable techniques of development of different research instruments.

It is a new course and course development team wants to involve you in the development stage of this course while asking you to give your feed back about the weaknesses and strength of topics, subtopics, web material, difficulty level, relevance, and significance of this course. Your input will definitely enable the course coordinator to improve the study guide and instructional material in the light of your comments before finalizing the course. You will find in your study material:

- Course Study Guides (Unit 1–9)
- Assignments 1 & 2
- Web material on CD

Please consider the following points while writing the assignments:

- Write the assignment in your own handwriting. The tutor will not accept Typed/computerized assignments.
- Write the assignments in your own words. Please read the web material and consult different web sites before writing the assignments.
- Write on one side (right side) of the page.
- In writing assignment do consult manual for writing term papers and research work from libraries. Follow APA style for referencing both in text and bibliography.
- Include only relevant information and properly acknowledge citation wherever used with the details of source, author, page number, publication date etc.
- The tutor will not accept late assignments. In case late assignment situation arises, it should be sent to Director Regional Services.
- Include bibliography at the end of each question.
- Keep a photocopy of the assignment for your record.

Please do not hesitate to contact me or your concerned tutor for any guidance during the study of this course.

(Prof. Dr. Rehana Masrur)

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WARNING

- 1. PLAGIARISM OR HIRING OF GHOST WRITER(S) FOR SOLVING THE ASSIGNMENT(S) WILL DEBAR THE STUDENT FROM AWARD OF DEGREE/CERTIFICATE, IF FOUND AT ANY STAGE.**
- 2. SUBMITTING ASSIGNMENTS BORROWED OR STOLEN FROM OTHER(S) AS ONE'S OWN WILL BE PENALIZED AS DEFINED IN "AIOU PLAGIARISM POLICY".**

Course: Instrumentation in Educational Research (4775)

Level: PhD

Semester: Spring, 2013

Credit Hours: 03

Total Marks: 100

ASSIGNMENT No. 1

- Q. 1 (i) Discuss the cognitive, affective and motivational components of a person's attitude towards a stimuli. **(08)**
- (ii) Download an attitude scale for measuring the concepts of 'Self'. Identify the construct which are measuring 'self', classify each statement in a relevant construct. **(12)**
- Q. 2 Develop an instrument on 5-point Likert scale on any one of the following topics: Internet, Modernism, Feminism.
- (i) Give theoretical review about the concept you have chosen for developing the instrument. Identify the indicators that measure the concept (at least four indicators). **(10)**
- (ii) Construct at least 30 statements (minimum five statements for each aspect according to the criteria stated in unit-1 and also consider cognitive, affective and behavioral dimensions). **(20)**
- Q. 3 Discuss the Inter-quartile Range and Scale values. How these concepts are calculated and used in final Equal Interval scales? Discuss. **(20)**
- Q. 4 Administer instrument developed in Q. 2 to 40-50 Secondary School Students (Males or females or both). After scoring, calculate t-value for each statement and select statements for final instrument. You must retain 20-25 statements in final scale. (Study unit-2 for calculation of t-values). **(30)**

ASSIGNMENT No. 2

Total Marks: 100

- Q. 1 What is scalogram analysis? Discuss the procedure of scalogram analysis. Compare the merits and demerits of Guttman scaling with equal appearing intervals. **(25)**
- Q. 2 Read research article 6.6 on “Use of Exploratory Factor Analysis in published articles: Common errors and some comments on improved practice”. By Hensen and Roberts. Discuss the: **(25)**
- (i) Decisions authors made while conducting Exploratory Factor Analysis in their research (N=60)
 - (ii) Information reported from the analyses of 60 studies.
- Q. 3 Conduct a research study on a topic related to your field while including the concept chosen in Q-2, Assignment-1 as variable and use the instrument. (Use qualitative methods for collection of data for another variable) **(30)**
- Q. 4 Write short notes on the following: **(20)**
- (i) Focus group discussion
 - (ii) Ethnographic research methods
 - (iii) Methods of Semantic Differential
 - (iv) Qualitative VS Quantitative research methods

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