ALLAMA IQBAL OPEN UNIVERSITY, ISLAMABAD
(Department of Educational Planning, Policy Studies and Leadership)

Subject: **MAILING PACKAGE OF M.PHIL EPM-3706 "ADVANCED COURSE ON EDUCATIONAL RESEARCH AND STATISTICS" SPRING 2013, SEMESTER**

Dear Students,

Assalam-o-Alaikum,

I feel great pleasure to welcome you in the M.Phil EPM-3706 **"Advanced Course on Educational Research and Statistics"** in the current semester. The course, as you would feel it, is meant for equipping the prospective planners and administrators with the skills and techniques required by them. I hope you would find this course quite interesting as well as useful in your professional development. I am sure that the successful completion of this course will be a major step towards achievement of the M.Phil EPM degree from the University in due course of time.

This mailing package contains:

i)   Allied Material (2 Books)
ii)   Two Assignments
iii)   Assignment Proformas
iv)   Schedule for Submitting Assignments
v)   Acknowledgement Receipt

You will receive your workshop assignment in due course which you would be required to present and submit in writing in the forthcoming workshop of the course at the end of the semester.

Towards the end I wish you a happy and enjoyable semester. My services are available as and when required.

With best wishes.

Yours sincerely,

(Dr. S. Manzoor Hussain Shah)
Course Coordinator

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Note: Before attempting assignments, please read the following instructions:
1. All questions are compulsory.
2. All questions carry equal marks.
3. Response to each question should not be less than 2500 words in theoretical part failing which marks will deducted accordingly.
4. Please write in your own words. Avoid irrelevant information and render a critical analysis the questions asked for.
5. No marks will be given for reproduction from the text or from elsewhere.
6. Please write in your assignment in legible handwriting. (Typed assignments are not accepted).
7. Please give source on case of quoting any material.
8. Use A-4 size of paper for writing assignment.
9. Please submit the assignment on or before the specified date.
10. Late assignment will not be accepted in any case.

Course: Advanced Course on Educational Research and Statistics (3706)
Level: M.Phil-EPM   **Semester: Spring, 2013**
Total Marks: 100   **Pass Marks: 40**
ASSIGNMENT No. 1
(Units: 1–5)

Q.1 a)   How would you classify research from different angles? Discuss with suitable examples from education in support of your answer.   (10)

   b)   Discuss different sampling techniques with their relative advantages and limitations with examples from education.   (10)

Q.2 Describe the importance of different types of researches in education. Support your answer with appropriate examples.   (20)

Q.3 a)   What is meant by 'Historical Research'? How would you make use of internal and external criticism in making use of some sources of data in historical research?   (10)

b) What do you understand by the term 'intervening variables'. How do they affect the experimental research in education? (10)

Q.4 Develop a research proposal on the title, "Inter relationship study of leadership behaviour efficacy believes and job satisfaction in public and private sector". Follow all necessary steps of research proposal. (20)

Q.5 By using textual and web sources, construct a questionnaire on likert scale on the following title of study: "Impact of Management styles on the teachers performance at Secondary Level in Islamabad". (20)

ASSIGNMENT No. 2
(Units: 6–9)

Q.1 Following is the distribution of sources of 315 students. Calculate the Mean, Median, Mode and the Standard Deviation for the distribution: (20)

Scores	No. of Students
160-169	1
150-159	5
149-149	13
130-139	45
120-129	40
110-119	60
100-109	51
90-99	48
80-89	36
70-79	10
60-69	3
50-59	1

Q.2 Following are the scores obtained by 12 students in two subjects. Calculate the coefficient of correlations "P" and "r" and comment on your results: (20)

Students	Subject X	Subject Y
A	50	22
B	54	25
C	56	34
D	59	28
E	60	26
F	62	30
G	61	32
H	65	30
I	67	28
J	71	34
K	71	36
L	74	40

Q.3 a) A random sample of 20 students of a 10 grade is taken from all students of district A whose scores are normally distributed with a mean of 650 and variance of 144. If the variance of sample is 174. Find the value of X^2 and test the hypothesis that population variance is 144. (10)

b) Define co-relation and discuss different type of relationship giving example from education. (10)

Q.4 a) The marks obtained by the students of intermediate class of a district A are normally distributed with a variance of 121. A random sample of 36 students is taken whose mean is 625. Construct a 95% confidence interval of the average marks of the population. (10)

b) Describe the concept of correlation and uses of measures of relationship in educational planning. (10)

Q.5 a) Find out Standard Deviation in the following distribution of scores in a test. Also explain the different steps followed in this regard. (10)

b)

Scores:	195-199	190-194	185-189	180-184	175-179	170-174	165-169	160-164
f	1	2	4	6	5	3	2	1

Calculate the 75th percentile in the distribution of scores given in question 5(b). Also explain the different steps followed in this regard. (10)