ESIGN ENVIRONMENTA

RESEARCH METHODOLOGY (1578)

Supplementary Material Spring, 2013

ALLAMA IQBAL OPEN UNIVERSITY, ISLAMABAD Department of Home and Health Sciences

ALLAMA IQBAL OPEN UNIVERSITY, ISLAMABAD (Department of Home and Health Sciences)

Course: Research Methodology (1578) Level: PGD Leading to MS Semester: Spring, 2013 Credit: 4 (3+1)

CHECKLIST

The study pack contains:

- 1. Course Book
- 2. Course Outline (Units1-9)
- 3. Tutor Guide
- 4. Student Guide
- 5. Assignments (1 & 2)
- 6. Assignment Forms
- 7. Schedule for submitting the assignment and tutorial meetings

Note: If any of the above mentioned material is missing in your pack, please contact at the following address:

Mailing Officer, Services and Operations Block Allama Iqbal Open University, H-8, Islamabad. Phone: 051-9057611-12

STUDENT GUIDE

Dear Student,

Assalam-o-Alaikum

We welcome you to PGD Leading to MS Environmental Design Course entitled "Research Methodology". This course is the part of the (3^{rd}) third semester of your PGD Leading to MS program. For introduction to the course please go through the introductory pages of the course book, here some guidelines for successful completion are given.

In order to understand the course content, it is vital to know its aims and objectives properly. Let's go through its aims and objectives first.

Course Objectives

This course aims to build the basic concepts and background of the students regarding research and techniques to conduct a valid and purposeful research. Where other courses are designed to improve your skills related to the environmental studies this course would develop your basic knowledge about research methods and techniques.

Part Time Tutors/Lecture Sessions

Students are allocated a part time tutor. The name and address of your tutor will be communicated through post office to you concerned AIOU Regional Office. The tutor will help and guide you in studying the books and conducting activities related to study units. You are expected to take full advantage of the tutor knowledge and experience. These tutors are also responsible for marking your assignments.

Make all efforts to complete your written assignment according to the prescribed schedule and try your best to attend all the study sessions according to the time table provided to you.

Schedule for tutorial meetings are arranged on fortnightly bases. The specific dates in the form of tutorial schedule are being provided separately. Try to attend these meetings regularly to get proper guidance from your tutor.

Assignments

The course includes two assignments which are compulsory for successful completion of the whole course. Each assignment of 100 marks and out of these students obtaining 40 marks will be declared pass.

Assignment No. 1 is theory based and must reach your assigned tutor before the due date. The schedule for submitting the assignment is provided separately. The tutor will send the marked assignment back to the students within 15 days, if you do not receive the marked assignment after 15 days please contact your tutor or regional office of the Allama Iqbal Open University.

The **Assignment No. 2** is research based and does not need submission to the tutor before the workshop is held. For detailed instructions related to your research based assignment please go through the detailed instructions enclosed with the assignment

Note: Do not forget to dispatch the prescribed forms along with the complete assignments.

Methods of Study

Study period of 16 weeks has been allocated for studying this course through distance learning where as 17^{th} and 18^{th} weeks are kept for general assessment and for final examination.

Units	Assignments	Study Period
1-2		4 weeks
3-6		4 weeks
7	Assignment 1	2 weeks
8-9		2 weeks
Revision	Assignment 2	4 weeks
Preparation for examination		2 weeks

You are expected to spend four weeks on studying first five units, this will help you to complete your first assignment and will also improve your reading speed and get familiar with the contents of the units. The next four units 3 to 6 will become easier for you and you will be able to study them in comparatively less time. You can spend four weeks on studying these four units, during the ninth week you can study the unit no. 7 and during the tenth week you complete your first assignment and dispatch to your tutor.

Unit 8 to 9 can be studied during 11th and 12th week respectively and you can complete your second assignment along with the revision of your book during the weeks 13-16. The last two weeks can be kept for examination and its preparation.

Practical Workshop

Practical workshop will be arranged for three days. Schedule of the workshop and venue will be sent to the students during the study period. Workshop will cover some of the lectures of the specialist on important topics and the students will present their research work conducted in the assignment no. 2. The tutor will provide guidance for the workshop. Attendance in workshop is **compulsory** for the students.

Final examination

At the end of the course there will be a final examination, all the students will be expected to take this examination in the examination halls especially established for this purpose.

For any queries you can write to the course / program coordinator. Suggestions for improvement will also be welcomed. We wish you all the best.

Dr. Nomana Anjum

Chairperson/Program Coordinator Department of Home and Health Sciences Allama Iqbal Open University, Islamabad

TUTOR GUIDE

Dear Tutor,

Students enrolled in PGD Leading to MS Environmental Design offered through the distance learning system belong to a number of professions and have a variety of educational backgrounds and experience.

These students have very limited contact with their course mates and the part time tutors. It is therefore important to keep in mind that some of the distance-learning students have had no links with education during the past few years after completing their formal education, therefore they might lack confidence. Secondly distance-learning students are involved in studying during their spare time, probably after office hours. You are therefore requested to guide and help the students while keeping these issues in mind. Some students may need help in developing professional attitudes as well as understanding the facts about research techniques and methodology.

Study Center

The main purpose of establishing the study center for distance learning students is to provide help and guidance for the difficulties faced by the students while studying at home. The study centers have been established in registered local institutions. During the tutorials, it is required to provide guidance to the students to sort out their problems.

Assignments

In the distance learning system, studying the course units has its own importance but assignments and workshops are the major source of link between tutor and the student. Therefore it is important to offer your comments through these assignments. Express your views in such a way that the student is not discouraged hurt or feels depress after going through your comments.

You are also expected to guide on issues like methods of solving assignments, effective methods of studying and methods to improve study habits and working hard.

Assignment two is research based and requires field survey. Advise students to discuss the assignment in the lecture sessions at various stages of research activity (at least three times before finally presenting in the workshop)

- 1. The stage one may be clarity on topic to develop objectives of study.
- 2. The stage two can be literature review and design of research tool (questionnaire etc).

It is anticipated that the student will submit their assignments in time according to the prescribed schedule.

You are therefore requested to mark the assignments within 15 days and return these with detailed comments within the scheduled dates.

Marking Guides are provided to you. You are expected to follow the instructions and make full use of these guides while marking the assignments. The students are expected to avoid giving unnecessary details and try to be brief and comprehensive. While marking the assignments the tutor has to assess whether the students have followed the instructions provided to them or not.

Practical Assignment

The students are given another assignment which is research based and would involve the student in some research activity after which they will be representing their work report in the workshop held by the end of the semester. The students are not required to submit this assignment to you before it is presented however, after the workshop the assignments will be submitted to the tutor and will be marked by you.

Workshop

A three days workshop will be arranged for the students for each course in their respective study center. You will be intimated before time as your presence in the workshop is necessary.

- During the workshop the experts will be delivering lectures to the students in the main areas of the subject.
- Also, the students would be presenting their research based assignment and you are required to mark the assignments after their presentation.

COURSE OUTLINE

Course: Research Methodology (1578)Credit: 4 (3+1)Programme: Environmental DesignLevel: Post Graduate

Reference book: Research methodology- by Ranjit Kumar 1999.

Unit-1 Introduction to Research

- 1.1 Application of research
- 1.2 Definition of research
- 1.3 Characteristics of research
- 1.4 Types of research
- 1.5 Paradigms of research
- 1.6 The Research Process (an eight step model)

Unit-2 Reviewing the Literature

- 2.1 Reasons for reviewing the literature
- 2.2 Procedure for reviewing the literature
- 2.3 Writing up the literature reviewed

Unit-3 Formulating a Research Problem

3.1 The research problem

- 3.2 Sources of research problem
- 3.3 Steps in formulation of a research problem
- 3.4 The formulation of objectives

Unit-4 Identifying Variables and Constructing Hypothesis

- 4.1 The definition of a variable
- 4.2 Types of variable
- 4.3 Types of measurement scale
- 4.4 The functions of a hypothesis
- 4.5 The characteristics of a hypothesis
- 4.6 Types of a hypothesis

Unit-5 The Research Design

- 5.1 Definition of a research design
- 5.2 Function of a research design

Unit-6 Selecting a Model of Data collection

- 6.1 Collecting data using primary sources
- 6.2 Collecting data using secondary sources
- 6.3 Selecting the research tool

Unit-7 Establishing the validity and reliability and Collection of Sample Size

- 7.1 Concepts of validity
- 7.2 Types of validity
- 7.3 The concept of reliability
- 7.4 Principles of Sampling
- 7.5 Aims in Selecting the Sample
- 7.6 Types of Sampling

Unit-8 Data Collection, Processing and Presentation

- 8.1 Ethical Considerations Concerning Research
- 8.2 Editing and Coding the Date
- 8.3 Analyzing and displaying the data
- 8.4 Role of Computer in Research

Unit-9 Writing a Research Report

- 9.1 Research writing in general
- 9.2 Referencing
- 9.3 Writing a bibliography
- 9.4 Developing an outline
- 9.5 Writing about a variable

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WARNING

 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.
 SUBMITTING ASSIGNMENTS BORROWED OR STOLEN FROM OTHER(S) AS ONE'S OWN WILL BE PENALIZED AS DEFINED IN

"AIOU PLAGIARISM POLICY".

Course: Research Methodology (1578) Level: Postgraduate Semester: Spring, 2013 Total Marks: 100

ASSIGNMENT No. 1 (Unit: 1-7)

Note: Answer the following questions. All questions carry equal marks.

- Q. 1 a) Define research. Explain different types of research in detail. (20)
 b) Explain the Paradigms of research.
- Q. 2 Explain the operational steps required to follow in order to conduct a study. (20)
- Q. 3 What are the reasons for reviewing the relevant literature, also identify how to search for literature. (10)
- Q. 4 What considerations researcher must keep in mind while selecting a research problem. (10)
- Q. 5 Differentiate between concept and a variable. Explain the types of variables. (10)
- Q. 6 Define Hypothesis. What valid verifications must be kept in mind when constructing hypothesis. (10)
- Q. 7 What is sampling. Explain different type of sampling techniques with examples. (10)

Q. 8 a) How would you define research design? Explain the types of study design?

b) What are the primary and secondary sources of data collection? (10)

ASSIGNMENT No.2

INSTRUCTIONS

Total Marks: 100

- 1. This assignment is of practical nature, you have to prepare a research report and present it in the workshop prior to the final examination (you do not need to send this to your tutor before the workshop).
- 2. The workshop component is mandatory for all the students. You cannot sit in the final examination without compiling this report and presenting it in the workshop.
- 3. This assignment requires thorough review of literature to develop the conceptual framework before conducting the field research, which also needs to be incorporated in the report systematically.
- 4. You can select any of the given topics for field research; the field visits should preferably be based closed to your home address.
- 5. Your research report should be at least 20-25 typed pages covering both theoretical and practical components.
- 6. Include the following sections in your report:
 - a) Introduction
 - b) Identifying Problem
 - c) Objectives of the Study
 - d) Hypothesis to be Tested
 - e) The Study Design
 - f) The Setting
 - g) Sampling Protocol
 - h) Analysis of Data
 - i) The Structure of Report
 - j) Problems and Limitations
 - k) Work Schedule
- 7. Prepare three copies of this assignment, one for yourself, one for the tutor and the third one for the Department of Home and Health Sciences (AIOU) for record. Attach three assignment forms with this assignment as for assignment one.
- 8. You are supposed to do a presentation in the workshop to the resource person and course mates; you should prepare a power point presentation for illustration.
- 9. You are advised to consult source material frequently. If you need any guidance you may contact your tutor or write to the Department of Home and Health Sciences (AIOU).

TOPICS FOR REPORT WRITING

Topic 1:

Select an urban and a rural community under a research activity entitled as "Impacts of modern education system on social life", arrange different type of questionnaire like closed an open-ended along with structured and un-structured interviews for both the communities and then compare the result with each other to get an idea that which kind of primary data collection system is better for that particular circumstances.

Topic 2:

Collect information from more than 50 people and 10 organizations as initial data to find out their views regarding the new educational policy (New Academic Year i.e. August-August) and also find out all other related issues to the subjected matter. Considering this base line data arrange a comprehensive research proposal fulfilling all technical requirements.

Topic 3:

Conduct an interview taking a sample size of at least 50 people to find out their views regarding the road network in your city, the problems faced by the people, and the improvements they suggest to overcome these problems. Write a research report after analyzing the data you have collected.

MARKING GUIDE

It is anticipated that the tutors mark the assignments carefully and follow the similar marking standard for all the students.

For the theory based assignments you are requested to follow the marks division as indicated on the assignment that is eight questions, making a total of hundred. The questions that are further divided into parts a, b etc. accompany a further division of marks as well.

For the research based assignment the allocation of marks is indicated as under:

Research activity	50 marks
Report writing	25 marks
Presentation in the workshop	25 marks

You are expected to stick to the guidelines provided to maintain the standardization and uniformity.
