

THE FEDERAL POLYTECHNIC, ILARO

COURSE COMPACT

**School**: Pure and Applied Sciences

**Department**: Nutrition and Dietetics

**Programme**: ND, Nutrition and Dietetics

**Course Code:** NUD 237

**Course Title**: RESEARCH METHODOLOGY

**Units**: 2

**Course** **Lecturer**: Mr. Gabriel Emmanuel

**Email of Lecturer**: gabrielemmanuel2020@gmail.com,

emmanuel.gabriel@federalpolyilaro.edu.ng

**Phone number**: 08141598378

**Session**: 2023/2024

**Semester**: Second

**Location**: BG 2

**Time:** 8.00 am – 10.00 am

1. **Brief Overview of Course:**

This course is designed to provide the student with the basic knowledge of research methodologies.

1. **Course Objectives/Goals**

**On completion of this course, the student should be able to**:

* Understand the meaning of research
* Understand the meaning of research methodology
* Know the approach of research
* Understand planning of experimental work
* Understand sample size determination and sampling techniques
1. **Method of Lecture Delivery/Teaching Aids**
* **Lecture Delivery Methods**
* Interactive classroom session
* Online lecture (e-classroom)
* Group presentation
* Field work
* Lecture note
* **Teaching Aids**
* Powerpoints
* Practical demonstration at the Nutrition and dietetics Clinic
* White board
* Marker
* Posters
* Video/audio clips
* Charts
1. **Course Outlines**

**Module I: Meaning of research**

Week 1:

* Define Research
* Describe with examples various types of research
* Explain the characteristics of research
* Explain the importance of research

Week 2:

* Explain the basic ethical principle of nutrition and dietetics research.

**Module 2: Meaning of research methodology**

Week 3:

* Explain research methods
* Explain the methods of conducting research
* Explain the merits and demerits of each of the methods of conducting research

Week 4:

* Methods of generating data in research/method of data collection
* Explain fundamental steps in conducting research.
* Explain steps in writing research report

**Module 3:** Approach of research

Week 5:

* Choose a field of research
* Formulate a research title
* Search for useful sources of information on the field of research (literature search, library, etc.)
* Compile an index cards system for research title
* Review related literature on the subject matter for research

**Note:** The above will be explained and students will practice and present in class.

**Module 4: Planning of experimental work**

Week 6:

* Explain Research Design
* Give examples of Research Design
* List and explain the method to be applied in research design, e.g. intervention and non intervention studies, questionnaire, interview, home visits and observation

Week 7:

* Explain different type of research design and explain the merits and demerits of various research designs
* Explain different methods used in research e.g Observation, Surveys, focus group, mixed method

**Module 5: Research proposal**

Week 8:

* Define research proposal
* Explain the basic component of a research proposal

**Module 6: Sample size and sampling techniques**

Week 9:

* Presentation
* Define sample size and other terms
* Explain reasons for sampling
* Formulae for calculating sample size

Week 10:

* Explain the types of sampling and explain the advantages and disadvantages of each type of sampling

Week 11:

* Principles of presentation
* Student’s Presentation

Week 12:

* Presentation
* Test

Week 13:

* Presentation
* Revision
1. Structure of the Programme/Method of Grading

Continuous Assessment

* Group Presentation/demonstration 10%
* Test 10%
* Assignment 10%

Examination

* Theory Examination 70%

**Total** 100%

1. **Ground Rules and Regulations**
* 75% attendance must be attained to sit for the examination
* Late coming to lecture will not be tolerated
* Noise making and side talk shall attract punishment
* Assignment must be submitted on time
* Contribution to group discussion and classwork is a prerequisite to passing the course.
1. Topics of Term Papers/Assignment/demonstrations

**Question 1**

1a. Design an online questionnaire to assess either food habits, or dietary pattern of 100 respondents.

1b. Analyse and report your result.

**N.B:** The link of the questionnaire, the excel generated and the hardcopy must be submitted in week 8

**Question 2**

Choose a nutrition-related seminar topic and succinctly write on it.

**N.B:** Your document should be in MS powerpoint and should not be more than 10 slides. You are to dress corporately for the presentation. Your topic must be submitted for approval before week 8. Presentations commence from week 9.

1. **Contemporary Issues/Relevance**

This course will produce students that will be able to plan and implement nutrition programme, policy and advocacy in communities and institutions.

1. **Recommended Reading/Texts**
2. To access textbooks and other relevant sources, Click on [www.federalpolyilaro.edu.ng](http://www.federalpolyilaro.edu.ng)
3. Click on “Academics”
4. Click on “School of Pure and Applied Sciences”
5. Scroll down and click on “Nutrition and Dietetics”
6. Click on “Lecture Notes”
7. Click on ND 1 Second Semester
8. Download