



Course Syllabus

1	Course title	Scientific Research Methodology
2	Course number	0603793
3	Credit hours (theory, practical)	1
	Contact hours (theory, practical)	1
4	Prerequisites/corequisites	
5	Program title	MSc. in Human Nutrition and Dietetics
6	Program code	036
7	Awarding institution	University of Jordan
8	School	Agriculture
9	Department	Nutrition and Food Technology
10	Level of course	Second
11	Year of study and semester (s)	2020/2021, Fall semester
12	Final Qualification	
13	Other department (s) involved in teaching the course	None
14	Language of Instruction	English
15	Date of production/revision	11/10/2020

16. Course Coordinator:

Office numbers, office hours, phone numbers, and email addresses should be listed.

Prof Reema Tayyem, 11-12 (Sunday, Monday, Thursday), email: r.tayyem@ju.edu.jo

17. Other instructors:

Office numbers, office hours, phone numbers, and email addresses should be listed.

None

18. Course Description:

As stated in the approved study plan.

Study of the basics of scientific research; identification of research problem; formulation of its hypothesis, data collection and statistical analysis; ethics in scientific research; training in writing a research proposal.

19. Course aims and outcomes:

A- Aims:

At the end of this course the student should be able to:

- Understand some basic concepts of research and its methodologies
- Identify and distinguish between the various types of research used in different sciences and explain their use
- Identify appropriate research topics
- Select and define appropriate research problem and parameters
- Prepare a project proposal (to undertake a project)
- Organize and conduct research (advanced project) in a more appropriate manner
- Write a research report and thesis
- Write a research proposal (grants)

B- Intended Learning Outcomes (ILOs): Upon successful completion of this course students will be able to

A. Knowledge and Understanding: Student is expected to

A1- Define the concepts of research

A2- Understand the need for research

A3- Understand types of research

A4- Know the research ethics

B. Intellectual Analytical and Cognitive Skills: Student is expected to

- B1- Be able to formulate the problem.
- B2- Be able to identifying variables
- B3- Be able to differentiate between quantitative data analysis and qualitative data analysis

C. Subject- Specific Skills: Students is expected to:

C1- How to carry out a literature review

C2- How to write a research report

C3- Know the contents of a thesis

C4- How to write good research proposals

D. Transferable Key Skills: Students is expected to

D1- Present the topic orally using different audio-visual aids in the area of public speaking.

D2- Be able to express opinion, ideas and proposals in strong and confident way.

20. Topic Outline and Schedule:

Торіс	Week	Instructor	Achieved ILOs	Evaluation Methods	Reference
Overview of Research and its Methodologies – - Concepts of research - The need for research - Types of research - Steps in conducting research - Research ethics	1-5	Reema Tayyem	A, B, C,D	1-4	1-3

 Literature review What is literature review? Why the need for literature review? How to carry out a literature review? 	6-9	Reema Tayyem	A, B, C	1-3	1-6
Selecting and defining a research problem-Problem formulation – why the need for this?-What are the criteria for selecting a 	10-12	Reema Tayyem	A, B, C,D	1-6	1-6
Writing Research Reports and Thesis-Why the need to write papers and reports?-Writing a research report-Contents of a thesis	13	Reema Tayyem	A, B, C,D	1-6	1-6
 Writing Research Proposals Why do we need to write research proposals? Research Grants in Jordan How to write Good Research Proposals? Case Study 	14	Reema Tayyem	A, B, C,D	1-6	1-3

21. Teaching Methods and Assignments:

Development of ILOs is promoted through the following teaching and learning methods:

Additionally different aids were used to facilitate and illustrate teaching such as

ILO/s	Learning Mathad
ILO/S	Learning Method
A. Knowledge and Understanding (A1-A)	Brain storming
B. Intellectual Analytical and Cognitive Skills (B1-	Group discussion
B)	_
C. Subject Specific Skills (C1-C)	Watching videos and self-reading hand-outs.
D. Transferable Key Skills (D1-D3)	Present a review or study

22. Evaluation Methods and Course Requirements:

Opportunities to demonstrate achievement of the ILOs are provided through the following assessment methods and requirements:

ILO/s	Evaluation Method
A. Knowledge and Understanding (A1-A)	Med- and final exam
B. Intellectual Analytical and Cognitive Skills (B1-	Project and assignments
B)	
C. Subject Specific Skills (C1-C)	Project
D. Transferable Key Skills (D1-D3)	Assignments

23. Course Policies:

A- Attendance policies: As declared by The University of Jordan Laws and Regulations.

B- Absences from exams and handing in assignments on time: As declared by The University of Jordan Laws and Regulations.

C- Health and safety procedures: None

D- **Honesty policy regarding cheating, plagiarism, misbehavior:** As declared by The University of Jordan Laws and Regulations.

E- Grading policy: As shown Evaluation Methods and Course Requirements

F- Available university services that support achievement in the course: Data show projector and class

24. Required equipment: (Facilities, Tools, Labs, Training....)

Data show projector, internet connection and class.

25. References:

Required book (s), assigned reading and audio-visuals:

- 1. Bacon-Shone, JH. Introduction to Quantitative Research Methods. Hong Kong: Graduate School, The University of Hong Kong. 2013
- 2. Kumar, Ranjit. Research Methodology A step-by-step Guide for Beginners. 2nd Ed. London: SAGE Publications. 2011
- 3. Bruce, Christine. Developing Students' Library Research Skills. HERDSA Green Guide # 13,1992.

Recommended books, materials, and media:

- 4. *Up-to-date scientific* articles, reviews and meta-analysis will be used.
- 5. Position and practice papers.
- **6.** Other resources.

26. Additional information:

Name of Course Coordinator:	Signature: Date:
Head of curriculum committee/Department:	Signature:
Head of Department:	Signature:
Head of curriculum committee/Faculty:	Signature:
Dean:	-Signature: