



Course Syllabus

Course Code	Course Title	ECTS Credits
PHAR-621	Research Methodology	10
Prerequisites	Department	Semester
None	Health Sciences	Fall
Type of Course	Field	Language of Instruction
Compulsory	Pharmacy	English
Level of Course	Lecturer(s)	Year of Study
2 nd Cycle	Sariyannis Y, Zacharia L, Mourelatou E, Galatou E	2 nd
Mode of Delivery	Work Placement	Corequisites
e-learning	--	none

Course Objectives:

Conducting any type of research requires a proper Research methodology in order to provide research legitimacy and provides scientifically sound findings. It also provides a detailed plan that helps to keep researchers on track, making the process effective and manageable. A researcher's methodology allows the reader to understand the approach and methods used to reach conclusions, but also assesses the exact method used to collect and analyze results.

Accordingly this course aims to Acquaint students with performing basic analysis of quantitative and qualitative data, Demonstrate the steps of scientific research and discuss applications of scientific research design, demonstrate how to prepare and plan a research project, enable students to develop information literacy skills (defining information needs, researching for information), and skills in planning, writing a research proposal, and introduce the ethical issues relevant to writing a research paper including integrity, copyright and citation. In the end this course will prepare students for a successful Thesis.

Learning Outcomes:

After completion of the course students are expected to be able to:

- Formulate clear research hypotheses
- Produce summaries of data held on computer and analyze and interpret the results
- Critically evaluate different types of study design and scientific evidence

- Critical analyze and evaluate published research.
- Distinguish between qualitative and quantitative research, the merits of various research designs and assess critically published research papers.
- Identify and propose a researchable project and prepare a proposal incorporating the relevant components and scientific literature citations.
- Access Library services and collections (electronic and print) and communicate information.

Course Content:

1. Getting started: an introduction to research and research hypothesis
2. Research Ethics
3. Literature resources and availability
4. Reviewing and reporting published literature
5. Research Design; Testing; Data Gathering and Recording
6. Qualitative/Quantitative Data Analysis and methods of data presentation (PowerPoint, Excel)
7. Qualitative Data analysis (Data collection and Analysis)
8. Statistical Tests/analysis of research results; SPSS
9. Writing a research proposal/dissertation
10. Discussion on published research papers
11. Evaluation of published research papers

Learning Activities and Teaching Methods:

Teaching material including PowerPoint presentations with extended descriptions and explanations, asynchronous video presentations, additional readings (journal articles and ebooks), access to additional videos related to the course, synchronous meetings (WebEx), forums, chats, quizzes, case studies, wikis, and major assignments.

Assessment Methods:

Continuous Assessment (major assignments and weekly activities), Final Exam

Required Textbooks / Readings:

Title	Author(s)	Publisher	Year	ISBN
A Manual for Writers of Research Papers, Theses, and Dissertations. 9th Edition.	KL Turabian	University of Chicago	2018	978-0-226-49442-5
Research Methods in Pharmacy Practice: Methods and Applications Made Easy. 1st Edition.	Zubin Austin, Jane Sutton	Elsevier	2018	eBook ISBN: 9780702074257, 2018, Paperback ISBN: 9780702074264