Course Name : Research Methods

Course Code	Course Type	Regular Semester	Lecture (hours/week)	Seminar (hours/week)	Lab. (hours/week)	Credits	ECTS
CMP 403	C	Fall	3.00	1.00	0.00	3.50	6.00

Lecturer	Ilirjana Kaceli, Prof. Asoc. Dr.
Assistant	
Course language	Albanian
Course level	Master
Description	The course "Research Methods" aims to equip students with the knowledge and skills to plan, conduct, and present scientific research. It covers research methodologies, questionnaire design, sampling techniques, statistical analysis, and research ethics.
Objectives	To understand the fundamentals of scientific research and its methodology. To enable students to design a research project. To develop skills in data analysis and interpretation. To promote ethical use of research practices.
Core Concepts	Research paradigms Research design: qualitative, quantitative, mixed Data collection and analysis Formulating research questions and hypotheses Ethics in scientific research

Course Outline

Week	Topic
1	Introduction to scientific research. What is scientific research? Characteristics of scientific research. Quality in research. General presentation of scientific research, its importance as an integral part of the preparation of scientific papers, diploma thesis and data analysis. Examples of high quality research papers to illustrate with concrete examples the quality in scientific research. "Metodat e Hulumtimit", Mathews & Ross, 2010, fq. 6-15
2	Definitions, classifications and examples of applications. The nature of the subject of scientific research in the social sciences. Historical description of scientific development and explanation of the basic concepts of the main terms that will be encountered during the development of the subject, the main theories and their evolution over the years. "Metodat "Metodat e Hulumtimit", Mathews & Ross, 2010, fq. 16-41
3	Stages of scientific research. Research chain links. Primary and secondary sources. The study problem and its definition. Search engines. Combination of information sources. Archives and technical-scientific processing of documents. “Metodat e Hulumtimit", Mathews & Ross, 2010, fq. 42-55
4	Nature of data. Data characteristics. Using data as a representation of social reality. Explanation of the nature of the data and explanation of the three basic concepts, qualitative, quantitative and mixed data. Concrete examples of their use in specific works. Metodat e Hulumtimit", Mathews & Ross, 2010, fq. 56-69
5	Nature of data. Data characteristics. Using data as a representation of social reality. Explanation of the nature of the data and explanation of the three basic concepts, qualitative, quantitative and mixed data. Concrete examples of their use in specific works. Metodat e Hulumtimit", Mathews & Ross, 2010, fq. 56-69
6	Planning a research project. Ethics in scientific research Students will try to realize the first part of a project proposal based on the explanation of the lectures so far. Evaluate the ethical requirements of research. Metodat e Hulumtimit", Mathews & Ross, 2010, fq. 92-108

7	Method (s) of observation. Social researcher telescope. The types and models of observations will be explained based on concrete works of each type. How should we prepare for each of the types of observation and what are the characteristics of each of the models. Metodat e Hulumtimit", Mathews & Ross, 2010, fq. 110-139
8	Project
9	Survey as a method of quantitative research How the data collection process is carried out (survey and survey), how the questions should be formulated and how the survey design is carried out. Open and closed survey questions. Metodat e Hulumtimit", Mathews & Ross, 2010, fq. 180-189
10	Sampling, representation and coding. Basic concepts about sampling. Number of study sampling components. Basis of sampling and some ways of sampling. " Metodat e Hulumtimit", Mathews & Ross, 2010, fq. 234-251
11	Focus groups. Observation. Secondary data sources. Comparative Method. Detailed explanation of secondary sources and their integration together with primary data during the research process. Their role in this process and the justification of their use in describing the methodology. Metodat e Hulumtimit", Mathews & Ross, 2010, fq. 342-371
12	Data analysis. Features of the analysis. Statistical analysis. Types of data analysis and concrete examples realized from various academic works. Explanation of statistical analysis and its importance as part of working and finding results. "Metodat e Hulumtimit", Mathews & Ross, 2010, fq. 342-371
13	Using the computer in academic writing What can it do with the computer? Statistical analysis. Using SPSS program "Metodat e Hulumtimit", Mathews & Ross, 2010, fq406-426
14	Planning and structure of academic writing. The way of writing Summary of basic concepts in academic writing, topic sentences, supporting sentences and concluding sentences. Overview of the reference system. "Metodat e Hulumtimit", Mathews & Ross, 2010, fq. 434-453
15	Revision
16	Final Exam

Prerequisites	The student must attend the course at a minimum rate of 75%.
Literature	• Creswell, John W. – Research Design: Qualitative, Quantitative, and Mixed Methods Approaches, 5th Edition, SAGE Publications, 2018.
References	• Ranjit Kumar – Research Methodology: A Step-by-Step Guide for Beginners, 5th Edition, SAGE Publications, 2022. • Wayne Goddard & Stuart Melville – Research Methodology: An Introduction, Juta and Company Ltd, 2004. • Deborah J. Rumsey – Statistics for Dummies, Wiley, Latest Edition.

Course Outcome

1	Students will be able to design and implement a scientific research project.
2	They will analyze data statistically and interpret the findings.
3	They will have skills to apply various research methodologies.
4	They will be aware of the importance of ethics in research.

Course Evaluation

In-term Studies	Quantity	Percentage
Midterms	1	40
Quizzes	0	0
Projects	0	0
Term Projects	0	0
Laboratory	1	10
Class Participation	0	0
Total in-term evaluation percent		**50**
Final exam percent		**50**
Total		**100**

ECTS Workload (Based on Student Workload)

Activities	Quantity	Duration (hours)	Total (hours)
Course duration (Including the exam week: 16x Total hours of the course)	16	4	64
Study hours outside the classroom (Preparation, Practice, etc.)	14	6	84
Duties	1	0	0
Midterms	1	2	2
Final Exam	1	2	2
Other	0	0	0
Total Work Load			**152**
Total Work Load / 25 (hours)			**6.08**
ECTS			**6.00**