

Prerequisite status: -	Unit Type: Theoretical/practical	The number of units: 2	Name of the lesson: <b>Philosophical foundations of research methodology</b>
Type of additional practical training: Has it <input checked="" type="checkbox"/> does not have <input type="checkbox"/> science travel <input type="checkbox"/> Laboratory <input type="checkbox"/> Workshop <input checked="" type="checkbox"/> , Seminar <input type="checkbox"/>		The number of hours: 48	Expert professor to teach: Geography and rural planning
<b>Goals:</b> Acquaintance with the philosophical and paradigmatic foundations of problemology and analysis of quantitative and qualitative research approaches in the field of geography and rural planning to empower students to use the appropriate approach in conducting scientific research			
<b>Headlines</b> <b>1-</b> Philosophy and nature of science in humanities (with emphasis on geography) 2- An overview of some key concepts in scientific knowledge (Problem, paradigm, school, theory, ontology, epistemology, Methodology, method, theoretical framework, conceptual model, conceptual framework, analytical model, and ... ) 3- Classical and contemporary paradigms in scientific knowledge` (Emphasizing their characteristics in the fields of ontology, epistemology, and Methodology) 4- Examining and criticizing paradigms of scientific knowledge (with emphasis on determining the feasibility of their application in geographical research and rural planning) 5- Philosophical explanation of problemology in geography and rural planning 6- Research methodology in geography and rural planning - Quantitative Methodology (Statement of the problem, questions, and goals, strategy to answer the questions, theory (Theoretical framework, conceptual model, hypothesis, and analytical model), statistical population, sample size and sampling methods, Operational definition of concepts, methods, and techniques of collecting and analyzing data and information, (Emphasizing the introduction and application of methods), Validity and reliability, the process of conducting research, ....., and introducing practical software) - Qualitative Methodology (Statement of the problem, questions and objectives, research strategy, research approaches (Case studies, phenomenology, ethnography, basic theory, discourse analysis, ...) The place of theory in qualitative research, participants, sample size, and sampling methods, methods and techniques for collecting and analyzing data and information, credibility of findings, qualitative research process, research ethics, etc. and introduction of application software) - Mixed Methodology (statement of the problem, questions and objectives, typology of classic and new research projects, the place of theory in qualitative research, sample size and mixed sampling strategies, Combined methods of data collection and analysis, validation and Validity, combined			

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<sup>1</sup>In this discussion, before criticizing the paradigms, it is necessary to teach the student the method of scientific criticism

research process and ...)

7- The student's presentation of the research plan based on the chosen Methodology.

### **Reference**

- 1- Alijani, Bohluli. (2019), Quantitative Methodology in Geography, Tehran, Samt.
- 2- Blakey, Norman. (2005), design of social researches, translation: Hasan Chavoshian, Ni publication.
- 3- Danaei Fard, Hassan, Alwani, Seyed Mehdi, Azar, Adel. (2019), Qualitative Research Methodology in Management: A Comprehensive Approach, Ishraghi Publications, Tehran.
- 4- Homan, Heider Ali. 2006, Practical Guide to Qualitative Research, Samt, Tehran.
- 5- Farastkhah, Maqsood. (2018), Qualitative research method in social sciences with an emphasis on "Grounded Theory (GTM), fifth edition, Aghaz Publisher, Tehran
- 6- Mohammadpour, Ahmad. (2010), Fararoosh (philosophical and practical foundations of the combined research method in social and behavioral sciences), third edition, Sociologists Publications, Tehran.
- 7- Mohammadpour, Ahmad. (2011), anti-method qualitative research method (volumes 1 and 2), third edition, Sociologists Publications, Tehran
- 8- Creswell, J. W. (2003). Research Design: Qualitative, Quantitative and Mixed Methods Approaches, Second Edition, Thousand Oaks, CA: Sage Publications.
- 9- Creswell, J. W. & Vicki L Plano Clark, (2007), Designing and Conducting Mixed Methods Research, First Editions, London: Sage Publications Inc.
- 10- Berg, Bruce. (2006), Qualitative Research Methods for The Social Sciences, New York: Allyn and Becon.
- 11- Bergman, M. M. (2008), Advance in Mixed Methods Research: Theories and Applications, London: sage publications Ltd