

Course title/Course Neptun ID: Research methodology	Credit value: 10
Professor in charge (name, position, academic degree): Zoltan, Lakner, Ph.d., DSc	
Professor(s) involved in teaching, if any (name, position, academic degree): Zoltán Lakner Professor, Phd. D.Sc.	
Course category: <u>compulsory</u> / elective	
Course type: lecture/seminar/practical course/consultation, and total number of course sessions in the given semester: 5..course sessions, total: 26 hours	
Methods, (<i>specific</i>) tools, and characteristics applied to convey knowledge: e.g.: case reports, case study analyses, project work, other... Lecture, interactive discussion, individual assignments, individual work with software VosViewer, CitNetExplorer, some specific E-packages	
Method of assessing knowledge (exam / practical course grade / other): Preparation of own research plan, presentation and defense of it	
Grading method(s) applied for assessing knowledge: 1-5	
The course's placement in the curriculum (in which semester the course is taken): 1 st semester: 1	
Compulsory studies prior to the course (if any): -	
Course description: a brief yet informative description of the course's objectives and the material to be covered	
The goal of the course to familiarize the students with concept and vocabulary and academic research, understanding the basic categories of research and its methods, development of problem-sensitivity and awareness of students, development of competences in field of research, and analysis as well as skills in research, sharpening of critical thinking	
Course topics/semester syllabus: Cognition and science; Philosophy of science: Aristoteles, Descartes, Kant, Kuhn, theory of scientific revolutions, inductive and deductive research, Science and innovation (Oslo, Frescatti Manuals); Innovation and practice: the triple helix model; What are we researching? Society and the economy as open, dynamic systems; Institutions of science, general characteristics and national specialties, Principles and foundations of system dynamics modelling; Research and ethics, legislation, ethical codes, bodies; Research ethics: plagiarism, falsification, influence peddling; Academic databases; the EISZ system of Hungarian Academy of Science, journal types, journal categorisations, Impact factor, Q systems, WoS, Scimago. Types of review articles and genre-specific characteristics of their preparation; The methodology of systematic literature review (Prizma Protocol); Systematic literature review case studies (Prospero, Cochran); Big data analysis in literature reviews: science mapping, bibliometric analysis; Computer-assisted bibliometric case studies; Research paradigms: positivism, postmodernism, interpretativism, ecological, network-based paradigms and their critiques; Research questions in qualitative research; Methods of primary qualitative research: in-depth interviews, interviews, observation; Computer-assisted primary research, practical content analysis; Observation in socio-economic research; Semi-quantitative research, expert interviews, conducting and analyzing of expert interviews in practice: analysis of social games and scenario analysis; Methods of quantitative research ; Databases and their management; Contemporary methods and new approaches in business research; Planning, conducting and analysing quantitative surveys; Methods for developing and validating scales; Analysis of systems of structural equations; Experiments in economic research; The interconnections between science, innovation and practice. Utilization of academic knowledge in business practice	
A list of the 2-5 most relevant <u>compulsory</u> literature (notes, textbooks) with bibliographic	

information (author, title, publication details, page numbers, ISBN):
Islam R., Khan N., Bajkhaly R (2024): Principles of social research methodology, p. 505, ISBN 9789811952197 Flic,, U. (2025): Introducing Research Methodology: Thinking Your Way Through Your Research Project (4th Edition), p. 260 ISBN: 978-1529680560 Creswell, J.W., Poth, Ch. N. (2024): Qualitative Inquiry and Research Design: Choosing Among Five Approaches (5th Edition) p. 460. ISBN: 978-1071947753
A list of the 2-5 most relevant <i>recommended</i> literature (notes, textbooks) with bibliographic information (author, title, publication details, page numbers, ISBN):
Creswell, J. W., & Creswell, J. D. (2018). <i>Research design: Qualitative, quantitative, and mixed methods approaches</i> (5th ed.). SAGE Publications. * ISBN-13: 978-1506386706, p.650 Babbie, E. R. (2021). <i>The practice of social research</i> (15th ed.). Cengage Learning., p. 320, ISBN-13: 978-0357360767 Saunders, M. N. K., Lewis, P., & Thornhill, A. (2019). <i>Research methods for business students</i> (8th ed.). Pearson Education., ISBN-13: 978-1292208787, p. 872
Professional competencies, elements of competence, and skills to which the course typically and substantially contributes (knowledge, ability, attitude, autonomy, and responsibility):
Knowledge: concept of academic research, current issues and paradigms in research, conceptual framework and terminology of research, modern methods of contemporary research and academic communication Ability: critical thinking, creative application of a wide range of research method, familiarized with in framework of this course Attitude: perseverance, endurance, openness to new challenges, responsibility Autonomy and Responsibility: Is able to independently identify scientific research problems, formulate research questions, and select and apply appropriate research methods. Takes responsibility for planning and conducting the research process and for communicating research results in a reliable, transparent manner and in accordance with scientific standards.