



Course title: METHODOLOGY OF EXPERIMENTAL STUDIES

ECTS credit allocation (and other scores): 3

Semester: spring

Level of study: : ISCED-7 - second-cycle program EQF-7

Branch of science: Agricultural sciences

Language: English

Number of hours per semester: 15h lectures / 30h classes

Course coordinator/ Department and e-mail: dr inż. Aneta Dąbrowska / Department of Dairy Science and Quality Management / anetazj@uwm.edu.pl

Type of classes: classes and lectures

SUBSTANTIVE CONTENT

CLASSES: Identification of interdependencies between variables. Coding of results. Non-parametric and parametric statistical tests. Project presentation .

LECTURES: Definitions used in the methodology. Subject and scope of the research. Variables Describing the subject and scope. Formulation of scientific hypotheses. Methods sampling. Classification and selection of appropriate methods and techniques. Time planning in research. Cost estimation.

Learning purpose: To provide knowledge and skills about research methodology, defining research problems, survey design, sampling, measurement and scaling techniques, data collection methods, data processing and analysis data, hypothesis testing, parametric and non-parametric tests and interpretation of results.

ON COMPLETION OF THE STUDY PROGRAMME THE GRADUATE WILL GAIN:

Knowledge: student is familiar with the basic concepts and definitions relating to research methodology, knows the principles of selecting methods, techniques and samples, is aware of the need to research planning, has knowledge of data analysis.

Skills: student operates a computer and multimedia tools for presentations; can apply research methods and techniques using spreadsheet and web solutions, is able to prepare statistical characteristics of the examined parameter, determines basic indicators and interprets them.

Social Competencies: student organises and distributes the tasks at the work station during planning and presentation of experiments and project, is aware of the principles of teamwork, actively participates in discussions.

Basic literature:

1. C.R. Kothari, Research methodology. Methods and techniques., New Age International. New Delhi, R. 2004

Supplementary literature

1) Anon, Available literature related to research methodology, Any publisher, R. 2000

The allocated number of ECTS points consists of: 47 contact hours with an academic teacher: Student's independent work: 14