

Course title: METHODOLOGY OF EXPERIMENTAL STUDIES

ECTS credit allocation (and other scores): 2

Semester: summer

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

Branch of science: Agricultural sciences

Language: English

Number of hours per semester: 15h lectures / 15h 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 methodology. Object and scope of the research. Variables describing the object and the scope. Scientific hypotheses formulation. Sampling methods. Classification and selection of appropriate methods and techniques. Time planning in the research. Estimation of costs.

Learning purpose: Knowledge and skills regarding research methodology, defining the research problem, research design, sampling design, measurement and scaling techniques, methods of data collection, process and analysis of data, testing of hypothesis, parametric and non-parametric tests, results interpretation.

ON COMPLETION OF THE STUDY PROGRAMME THE GRADUATE WILL GAIN:

Knowledge: student knows the basic concepts and definitions related to research methodology, knows the rules of methods, techniques and sample selection, is aware of the need for research planning; has knowledge of data analysis, in addition, knows the rules for the selection.

Skills: student is able to apply research methods and techniques, is able to prepare statistical characteristics of the tested parameter.

Social Competencies: the student is ready to solve research problems in the field of food technology and nutrition.

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: 32 contact hours with an academic teacher: Student's independent work: 18.