Course title:	Data processing and presentations techniques
Course title in Polish:	Techniki przetwarzania i prezentacji danych
Course for discipline:	Agriculture and Horticulture

Semester:	7	**Status of course:**	faculty	**Language:**	polish
Academic year:		**Catalog number:**			

Coordinator of course:	Dr. Jarosław Leon Przybył
Lecturer od course:	Dr. Jarosław Leon Przybył
Executing unit:	Institute of Horticultural Sciences, Department of Vegetable and Medicinal Plants
Ordering unit:	Doctoral School SGGW
Assumptions, goals and description of the course:	Acquisition of skills in handling data obtained from research/experiments and presenting factual content and conclusions in a clear and understandable manner. - processing and presentation of numerical data - practical use of advanced spreadsheet functions - raster graphics processing - image acquisition, practical use of software for preparing photographs and images to illustrate research results - vector (object) graphics processing - data import and export, practical use of software for preparing illustrations, diagrams and schematics - elements of typography - principles for the preparation of a communicative and easy-to-read text message - elements of information design - principles for preparing clear visual messages: diagrams, schematics, instructions, graphic abstracts - preparation of publications for print - practical use of advanced functions of editing and typesetting programmes - preparing content/publications for presentation on screen/plotter - practical use of advanced functions of programmes for creating multimedia presentations - preparing content/publications for presentation on the internet
Didactic form, number of hours:	Practical exercises, 10 hours
Teaching methods:	discussion, project, problem solving, experience/experiment, case study, analysis and interpretation of source texts, individual student projects, consultation
Limit of people in the group:	15

Learning outcomes

KNOWLEDGE - the graduate knows and understands:	**SKILLS - the graduate is able to:**	**COMPETENCES - the graduate is ready to:**
To the extent enabling to revise the existing pradigms in the field/discipline - the world achievments, gathering theoretical background as well as general and selected detailed issues	Carry out critical assessment of the scientific research findings and expert activities and their contribution to the knowledge development in the field/discipline	Critically evaluate the achievments in the field/discipline represented
Major general development trends in the field/discipline		Recognise knowledge in solving cognitive and practical problems characteristic for the area of research (field/discipline) and in an interdisciplinary aspect
		Support the ethos of scientific circles and conduct independent research

The method of verification of learning outcomes:	
Form of documentation of achieved learning outcomes:	personal evaluation sheet, submitted project and essay
Elements and weights of the final grade:	Final assessment: The evaluation of the learning outcomes consists of: 1. observation during the discussion of the defined problem (activity); 2. evaluation of the speeches and presentations during the class; 3. evaluation of the performance of the project task and the essay. A maximum of 100 points can be obtained for each element.Weights of each element: 1 - 10 %, 2 - 15 %, 3 - 75 %. The final mark is the sum of the points obtained for each element taking into account its weighting. A minimum score of 51 % is required to pass.
Place of the course:	Teaching room; online classes possible

Basic and supplementary literature

Richard Poulin - Language of Graphic Design Revised and Updated, Rockport Publishers Inc., 2021 Tony Seddon, Jane Waterhouse - Graphic Design for Non-Designers, Rotovision S.A., 2009 Cyrus Highsmith - Inside Paragraphs: Typographic Fundamentals, Princeton University Press, 2020 David McCandless - Knowledge is Beautiful, HarperCollins, 2014 Victoria Squire, Hans Peter Willberg - Getting it Right with Type: The Do's and Don'ts of Typography, Laurence King Publishing, 2006 Adrian Frutiger - Typefaces, Birkhäuser Berlin, 2021

Comments:	

Estimated number of hours of work of the doctoral student necessary to achieve the assumed learning outcomes:	

Leraning outcomes reference to the second degree characteristics of the National Qualification Framework (level 8) covering doctoral competences:		
Symbol:	**Learning outcomes:**	**8 level NQF**
SD1_KW01	To the extent enabling to revise the existing pradigms in the field/discipline - the world achievments, gathering theoretical background as well as general and selected detailed issues	P8S_WG

SD1_KW02	Major general development trends in the field/discipline	P8S_WG
SD1_KU05	Carry out critical assessment of the scientific research findings and expert activities and their contribution to the knowledge development in the field/discipline	P8S_UW
SD1_KK01	Critically evaluate the achievments in the field/discipline represented	P8S_KK
SD1_KK03	Recognise knowledge in solving cognitive and practical problems characteristic for the area of research (field/discipline) and in an interdisciplinary aspect	P8S_KK
SD1_KK08	Support the ethos of scientific circles and conduct independent research	P8S_KR