

Prowadzący	Dr hab. Radosław Mącik, prof. UMCS
Oferta PJO*	TAK / NIE**
Oferta PJOE*	TAK / NIE**
Kierunek, rok, stopień dla PJO	Zarządzanie/Ekonomia Ist. II/III rok
Semestr roku 2021/2022	zimowy / letni**

* PJO – przedmiot w języku obcym dla studentów polskich / PJOE – przedmiot w języku obcym dla studentów Erasmus+

** zostawić właściwe

BASIC INFORMATION ABOUT THE SUBJECT (INDEPENDENT OF THE CYCLE)

Module name	Data Visualisation
Erasmus code	
ISCED code	
Language of instruction	English
Website	https://www.umcs.pl/en/courses-in-english,21103.htm (dla PJOE)
Prerequisites	Statistics (basic course)
ECTS points hour equivalents	Contact hours (work with an academic teacher): 15 Total number of hours with an academic teacher: 15 Number of ECTS points with an academic teacher: 2 Non-contact hours (students' own work): 15 Total number of non-contact hours: 15 Number of ECTS points for non-contact hours: 1 Total number of ECTS points for the module: 3
Educational outcomes verification methods	Assignments, discussion
Description	The module covers the knowledge in the area of data visualisation. The subject is taught on introductory level. The primary goal is to provide to the students knowledge and skills to choose and prepare proper data visualisation in form of graphs and infographics. Classes integrate lectures and practical assignments into one curriculum. Basic knowledge and skills in statistics is required, no serious math is used, graphical skills are welcome.
Reading list	1. Claus O. Wilke, Fundamentals of Data Visualization, O'Reilly Media, Inc., 2018. 2. Jacques Bertin, Semiology of Graphics: Diagrams, Networks, Esri Press, 2010
Educational outcomes	KNOWLEDGE 1. Knowledge about visualization types 2. Knowledge about graphs construction 3. Knowledge about infographics design SKILLS 1. Ability to choose proper visualisation type 2. Ability to design proper graphs 3. Ability to design simple infographics ATTITUDES 1. Critical thinking 2. Conforming aesthetics rules
Practice	n/a

INFORMATION ABOUT CLASSES IN THE CYCLE

Website	https://www.umcs.pl/en/courses-in-english,21103.htm (dla PJOE)
Educational outcomes verification methods	Assignments, discussion
Comments	-
Reading list	<ol style="list-style-type: none"> 1. Claus O. Wilke, Fundamentals of Data Visualization, O'Reilly Media, Inc., 2018. 2. Jacques Bertin, Semiology of Graphics: Diagrams, Networks, Esri Press, 2010
Educational outcomes	<p>KNOWLEDGE</p> <ol style="list-style-type: none"> 1. Knowledge about visualization types 2. Knowledge about graphs construction 3. Knowledge about infographics design <p>SKILLS</p> <ol style="list-style-type: none"> 1. Ability to choose proper visualisation type 2. Ability to design proper graphs 3. Ability to design simple infographics <p>ATTITUDES</p> <ol style="list-style-type: none"> 1. Critical thinking 2. Conforming aesthetics rules
A list of topics	<ol style="list-style-type: none"> 1. From data to visualization. Basic rules and tools 2. Visualisation of numbers and indicators 3. Visualisation of structures and other quantitative data 4. Spatial data visualization 5. Visualisation of textual data 6. Infographics – design principles and tools 7. Infographics – practice of visual communication
Teaching methods	Informative lecture with examples, assignments, discussion, problem solving
Assessment methods	Attendance, activity during class, assignments