

**AGH**AGH UNIVERSITY OF SCIENCE
AND TECHNOLOGY

Module name: Information techniques in engineering practice

Academic year: 2013/2014 Code: RMS-1-611-s ECTS credits: 3

Faculty of: Mechanical Engineering and Robotics

Field of study: Mechatronics with English as instruction language Specialty: —

Study level: First-cycle studies Form and type of study: Full-time studies

Lecture language: English Profile of education: Academic (A) Semester: 6

Course homepage: —

Responsible teacher: dr inż. Kurowski Piotr (kurowski@agh.edu.pl)

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Description of learning outcomes for module

MLO code	Student after module completion has the knowledge/ knows how to/is able to	Connections with FLO	Method of learning outcomes verification (form of completion)
Skills			
M_U001	It has the ability to use network protocols for the collection, processing and data visualization.		Activity during classes, Execution of laboratory classes
M_U002	It has the ability to configure and use tools working in a networked environment.		Activity during classes, Execution of laboratory classes
M_U003	Is able to design, administer and use a simple database structure.		Activity during classes, Execution of laboratory classes
Knowledge			
M_W001	He knows the basic structures, models and techniques used in network systems.		Test, Execution of laboratory classes
M_W002	He knows the basic data structures and tools related to data collection and processing in database systems		Activity during classes, Test, Execution of laboratory classes
M_W003	He knows the methods and tools to access and process data in a network environment.		Activity during classes, Test, Execution of laboratory classes

FLO matrix in relation to forms of classes

MLO code	Student after module completion has the knowledge/ knows how to/is able to	Form of classes										
		Lectures	Auditorium classes	Laboratory classes	Project classes	Conversation seminar	Seminar classes	Practical classes	Others	Fieldwork classes	Workshops	E-learning
Skills												
M_U001	It has the ability to use network protocols for the collection, processing and data visualization.	-	-	+	-	-	-	-	-	-	-	-
M_U002	It has the ability to configure and use tools working in a networked environment.	-	-	+	-	-	-	-	-	-	-	-
M_U003	Is able to design, administer and use a simple database structure.	-	-	+	-	-	-	-	-	-	-	-
Knowledge												
M_W001	He knows the basic structures, models and techniques used in network systems.	+	-	-	-	-	-	-	-	-	-	-
M_W002	He knows the basic data structures and tools related to data collection and processing in database systems	+	-	-	-	-	-	-	-	-	-	-
M_W003	He knows the methods and tools to access and process data in a network environment.	+	-	-	-	-	-	-	-	-	-	-

Module content

Lectures

The course aims to familiarize yourself and learning to practical use of tools related to data dostępmie its processing and presentation, and archiving.

Laboratory classes

The course aims to familiarize and learn the practical use of tools for access to data, its processing, presentation and archivation.

Method of calculating the final grade

The average of the grades obtained through the tests

Prerequisites and additional requirements

Prerequisites and additional requirements not specified

Recommended literature and teaching resources

Recommended literature and teaching resources not specified

Scientific publications of module course instructors related to the topic of the module

Additional scientific publications not specified

Additional information

None

Student workload (ECTS credits balance)

Student activity form	Student workload
Participation in lectures	15 h
Realization of independently performed tasks	20 h
Participation in laboratory classes	30 h
Examination or Final test	2 h
Preparation for classes	20 h
Summary student workload	87 h
Module ECTS credits	3 ECTS