MODULE DESCRIPTION

Module code	**ID1_PRI7**
Module name	**Pracownia inżynierska**
Module name in English	**Engineering Laboratory**
Valid from academic year	**2011/12**

MODULE PLACEMENT IN THE SYLLABUS

Subject	**Computer Science**
Level of education	**1st degree** *(1st degree / 2nd degree)*
Studies profile	**General** *(general / practical)*
Form and method of conducting classes	**Full-time** *(full-time / part-time)*
Specialisation	
Unit conducting the module	**The Department of Computer Science**
Module co-ordinator	**Roman Stanisław Deniziak, PhD hab., Eng., Professor of the University**
Approved by:	

MODULE OVERVIEW

Type of subject/group of subjects	**Basic** *(basic / major / specialist subject / conjoint / other HES)*
Module status	**Compulsory** *(compulsory / non-compulsory)*
Language of conducting classes	**Polish**
Module placement in the syllabus - semester	**7th semester**
Subject realisation in the academic year	**Winter semester** *(winter / summer)*
Initial requirements	**No requirements** *(module codes / module names)*
Examination	**No** *(yes / no)*
Number of ECTS credit points	**5**

Method of conducting classes	Lecture	Classes	Laboratory	Project	Other
Per semester				**30**	

TEACHING RESULTS AND THE METHODS OF ASSESSING TEACHING RESULTS

Module target	The aim of the module is to: master the ability of correct analysis and solving engineering issues; master the techniques of preparing documentation concerning an engineering project.

Effect symbol	Teaching results	Teaching methods *(l/c/l/p/other)*	Reference to subject effects	Reference to effects of a field of study
U_01	The ability prepare documentation concerning a project of an information system.	p	K_U03	T1A_U03
U_02	The ability to gain knowledge from various sources as regards the assigned subject matter.	p	K_U01	T1A_U01 T1A_U07
U_03	The ability of self-education in order to master new techniques indispensable in solving the assigned engineering issue.	p	K_U05	T1A_U05
K_01	A student understands the necessity of education and raising his/her qualifications as regards information technologies.	p	K_K01	T1A_K01
K_02	A student is able to formulate his/her opinions and describe (in an understandable manner) solutions to engineering issues from the field of computer science.	p	K_K06	T1A_K07

Teaching contents:

The description of project assignments

Preparing documentation which describes the method of solving the assigned engineering issue. The prepared documentation has to include the following:

1. A review and analysis of the applied solutions.
2. The analysis of the assigned engineering issue and a selection of appropriate techniques to solve the assigned issue.
3. A design of architecture concerning the selected information system (together with the justification of the applied solutions and tools).
4. A description of: solution implementation as well as the manual for the user.
5. Solution assessment and the analysis of possible directions of development.

The methods of assessing teaching results

Effect symbol	Methods of assessing teaching results *(assessment method, including skills – reference to a particular project, laboratory assignments, etc.)*
U_01	Quality assessment concerning project documentation.
U_02	The assessment of solutions applied in the project on the basis of the current knowledge on the subject.
U_03	The assessment of correctness concerning the application of new technologies in solving the selected engineering issue.
K_01	The assessment of the ability of critical evaluation as regards the applied solutions.
K_02	The assessment of the presentation method which concerns the applied solutions in project documentation.

STUDENT'S INPUT

ECTS credit points		
	Type of student's activity	**Student's workload**
1	Participation in lectures	
2	Participation in classes	
3	Participation in laboratories	
4	Participation in tutorials (2-3 times per semester)	
5	Participation in project classes	**30**
6	Project tutorials	**5**
7	Participation in an examination	
8		
9	**Number of hours requiring a lecturer's assistance**	**35** *(sum)*
10	**Number of ECTS credit points which are allocated for assisted work** *(1 ECTS credit point=25-30 hours)*	**2**
11	Unassisted study of lecture subjects	
12	Unassisted preparation for classes	
13	Unassisted preparation for tests	
14	Unassisted preparation for laboratories	
15	Preparing reports	
16	Preparing for a final laboratory test	
17	Preparing a project or documentation	**90**
18	Preparing for an examination	
19	Preparing questionnaires	
20	**Number of hours of a student's unassisted work**	**90** *(sum)*
21	**Number of ECTS credit points which a student receives for unassisted work** *(1 ECTS credit point=25-30 hours)*	**3**
22	**Total number of hours of a student's work**	**125**
23	**ECTS credit points per module** *1 ECTS credit point=25-30 hours*	**5**
24	**Work input connected with practical classes** *Total number of hours connected with practical classes*	**125**
25	**Number of ECTS credit points which a student receives for practical classes** *(1 ECTS credit point=25-30 hours)*	**5**