FACULTY Computer Science and Management / DEPARTMENT Informatics
SUBJECT CARD
Name in Polish …Techniki w zarządzaniu projektem informatycznym…….
Name in English …Software Project Management Techniques…….
Main field of study (if applicable): Computer Science
Specialization (if applicable): ……………………..
Level and form of studies: 1st/ 2nd* level, full-time / part-time*
Kind of subject: obligatory / optional / university-wide*
Subject code INZ0276Wls
Group of courses YES / NO*

	Lecture	Classes	Laboratory	Project	Seminar
Number of hours of organized classes in University (ZZU)	15		15		15
Number of hours of total student workload (CNPS)	30		60		30
Form of crediting	Examination / crediting with grade*	Examination / crediting with grade*	Examination / crediting with grade*	Examination / crediting with grade*	Examination / crediting with grade*
For group of courses mark (X) final course	X				
Number of ECTS points	1		2		1
including number of ECTS points for practical (P) classes			2		
including number of ECTS points for direct teacher-student contact (BK) classes	0,6		1,2		0,6

*delete as applicable

PREREQUISITES RELATING TO KNOWLEDGE, SKILLS AND OTHER COMPETENCES
1. students are expected to be familiar with the material covered in software engineering course

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SUBJECT OBJECTIVES
C1 To develop an awareness of the need for project planning and management
C2 To apply professional attitudes and techniques to managing a project

SUBJECT EDUCATIONAL EFFECTS
relating to knowledge:
PEK_W01 Explain the stages in the project development lifecycle; explain of key components of a
　　　project plan
PEK_W02 Understanding of steps needed to build a project plan
PEK_W03 Explain the procedures needed to monitor, control and report upon an IT development
　　　　project
…
relating to skills:
PEK_U01 demonstrate an ability to prepare a project charter of simple project

PEK_U02 apply basic project planning techniques and resource assigning to project tasks
PEK_U03 apply basic project cost estimation techniques
PEK_U04 demonstrate ability to prepare a presentation and essay on given subject
…
relating to social competences:
PEK_K01 working as project a manager in planning and cost estimation project areas;
PEK_K02 understanding of steps needed to build and maintain effective development teams

PROGRAMME CONTENT		
Form of classes - lecture		**Number of hours**
Lec 1	Basic notions in project management. Feasibility study	1
Lec 2	Project planning and scheduling techniques for plan driven methods	2
Lec3	Project planning and scheduling techniques for agile driven methods	2
Lec 4	Project resources-;examples. Team management (organization and decision-making, roles and responsibilities in a software team).	2
Lec 5	Project cost estimation techniques	2
Lec 6	Project monitoring and tracking.	1
Lec 7	Software quality. Software Quality Assurance methods and techniques.	2
Lec 8	Methodologies of software project management- review (PRINCE2,DSDM,Scrum..)	2
Lec 9	Test	1
	Total hours	**15**
Form of classes - class		**Number of hours**
Cl 1		
Cl 2		
Cl 3		
Cl 4		
..		
	Total hours	
Form of classes - laboratory		**Number of hours**
Lab 1	Introductory lab: safety regulation; introduction to MSProject 2010.	1
Lab 2	Project scope definition; requirements specification.	2
Lab 3	Traditional project planning and scheduling	2
Lab 4	Agile project planning and scheduling	2
Lab 5	Project Resource definition and assignments	3
Lab 6	Project cost estimation; project task tracking	3
Lab7	Summary-Reporting project planning results	2
	Total hours	15
Form of classes – project		**Number of hours**
Proj 1		
Proj 2		

Proj 3		
Proj 4		
…		
	Total hours	

Form of classes - seminar		Number of hours
Sem 1	Introductory seminar; topics assignments	1
Sem 2	Conceptualizing and Initializing the IT Project; Developing the Project Charter	2
Sem 3	Developing the Project Plan and Schedule; Resource problems	3
Sem 4	The Human Side of Project Management	3
Sem 5	Managing Change, Resistance and Conflicts	2
Sem 6	Progress monitoring, project control and reporting	2
Sem 7	Software quality	2
	Total hours	15

TEACHING TOOLS USED

N1. Informative lecture supporting with PowerPoint presentations
N2. software application for software project management
N3. Examples of managerial documentation of projects published on e-learning system

EVALUATION OF SUBJECT EDUCATI ONAL EFFECTS ACHIEVEMENT

Evaluation (F – forming (during semester), P – concluding (at semester end)	Educational effect number	Way of evaluating educational effect achievement
F1	**PEK_U04**	Grade based on student participation in discussion, prepared MsPowerPoint presentation and essay
F2	**PEK_U01- PEK_U03**	Grades based on completeness, on time and quality of laboratory assignments
F3	**PEK_W01- PEK_W04**	Grade based on multichoice test result

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Grading Scale
- final grade will be based on the following scale: A=100-93; B=92-85; C=84-77; D=76-70; F=69-0;
Final course grade will be based upon the following weights for categories of assessments:
- Discussion forums and weekly course participation 10%
- Presentation and essay 20%
- laboratory assignments 40%
- final test 30%

PRIMARY AND SECONDARY LITERATURE

PRIMARY LITERATURE:

[1] Kenneth R. Bainey. Integrated IT Project Management: A Model-Centric Approach. Artech House. –2004. - 502p

[2] Paul E Harris. Planning and Control Using Microsoft® Project and PMBOK® Guide Third Edition. Eastwood Harris Pty Ltd. – 2005. – 300 p

[3] Robert K. Wysocki and Rudd McGary, "Effective Project Management", 3rd edition,Wiley

[4] E-Book – Project Management Body of Knowledge

SECONDARY LITERATURE:

[1]

[2]

[3]

SUBJECT SUPERVISOR (NAME AND SURNAME, E-MAIL ADDRESS)

Iwona Dubielewicz, iwona.dubielewicz@pwr.wroc.pl

MATRIX OF CORRELATION BETWEEN EDUCATIONAL EFFECTS FOR
SUBJECT
Software Project Management Techniques
AND EDUCATIONAL EFFECTS FOR MAIN FIELD OF STUDY
Computer Science
AND SPECIALIZATION …………………………..

Subject educational effect	Correlation between subject educational effect and educational effects defined for main field of study and specialization (if applicable)**	Subject objectives***	Programme content***	Teaching tool number***
PEK_W01 (knowledge)	K1INF **_W18**	C1,	Lec1,lec2,lec3	N1,N3
PEK_W02	K1INF **_W18**	C2	Lec2-5,Lec 8	N1,N3
PEK_W03	K1INF **_W18**	C2	Lec6,lec7	N1,N3
PEK_U01 (skills)	K1INF **_U14**, K1INF **_U10**	C2	Lab1,Lab2,	N2,N3
PEK_U02	K1INF **_U10**	C2	Lab3,lab4	N2,N3
PEK_U03	K1INF **_U10**	C2	Lab5,lab6	N2,N3
PEK_U04	K1INF **_U10**	C2	Sem2-7, lab7	N1
PEK_K01 (competences)	K1INF **_K02**	C1	Lec2-6, Lab2-6 Sem 2-7	N1,N3
PEK_K02	K1INF **_K02**	C1	Lec 4,8	N1,N3

** - enter symbols for main-field-of-study/specialization educational effects

*** - from table above