STUDY MODULE DESCRIPTION FORM

Name of the module/subject		Code
Workflow management		**1010332531010337156**
Field of study: **Information Engineering**	Profile of study (general academic, practical): **(brak)**	Year /Semester: **2 / 3**
Elective path/specialty: **Information Technologies**	Subject offered in: **Polish**	Course (compulsory, elective): **obligatory**
Cycle of study: **Second-cycle studies**	Form of study (full-time,part-time): **full-time**	
No. of hours: Lecture: **15** Classes: **-** Laboratory: **-** Project/seminars: **15**		No. of credits: **3**
Status of the course in the study program (Basic, major, other): **(brak)**	(university-wide, from another field): **(brak)**	
Education areas and fields of science and art: **technical sciences**		ECTS distribution (number and %): **3 100%**

Responsible for subject / lecturer:

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Prerequisites in terms of knowledge, skills and social competencies:

1	**Knowledge**	knows and understands selected problems of modeling and analysis of IT systems to a greater extent [K2_W05 (P7S_WG)]
2	**Skills**	can acquire information from literature, databases and other sources; can integrate the obtained information, make their interpretation and critical evaluation and creative interpretation and presentation, as well as draw conclusions and formulate and fully justify opinions [K2_U01 (P7S_UW)]
3	**Social competencies**	is ready to critically evaluate the received content; recognition of the importance of knowledge in solving cognitive and practical problems [K2_K02 (P7S-KK)]

Assumptions and objectives of the course:

Principles of workflow management systems.

Study outcomes and reference to the educational results for a field of study

Knowledge:

1. knows and understands knowledge of key issues in selected IT systems with specific features or purpose - [[K2_W12 (P7S_WG)]]

Skills:

1. can work in a team - formulate a specific. fragments of atypical or complex IT systems; use your knowledge in formulating and solving atypical IT problems, make an initial economic assessment of the proposed solutions and engineering activities undertaken, and innovatively perform tasks related to complex IT systems - [[K2_U08 (P7S_UW)]]

2. can manage the work of a team implementing unusual or complex IT systems - [[K2_U09 (P7S_UW)]]

Social competencies:

1. is willing to take care of the profession and achievements of the IT profession; is aware of the importance and understands the non-technical aspects and effects of the engineer-informatics activity and the related responsibility for the decisions made and compliance with the ethics of the profession of IT - [[K2_K02 (P7S-KR)]]

Assessment methods of study outcomes

Lectures: written tests, pass criterion of 50.1% points

Project labs: ocena wykonanych projektów i sprawozdań.

Course description

Lectures: Basic concepts, including processes, actions, events, partycypants. Modeling of the workflow: XPDL and BPMN. The basic components of workflow management systems.

Course update 2017: Examples of workflow management systems.

Projects: Projects carried out by groups of students (among others related to processes carried out in PUT).

Teaching methods:

lectures - with multimedia presentation, additional topics included in Moodle course

projects - group work, multimedia presentation, analysis/discussion, used tools enable students to perform tasks at home

Basic bibliography:

1. http://www.bpmn.org/

Additional bibliography:

1. https://camunda.org/bpmn/tutorial/

2. Subieta K., Zarzadzanie przeplywem pracy I 1998.ppt
http://www.google.com/url?sa=t&rct=j&q=system%20zarz%C4%85dzania%20przep%C5%82ywem%20prac&source=web&cd=1&ved=0CCQQFjAA&url=http%3A%2F%2Fwww.ipipan.waw.pl%2F~subieta%2Fprezentacje%2FZarzadzanie%2520przeplywem%2520pracy%2520I%25201998.PPT&ei=2i5eT_vfM8aAOpah9JoN&usg=AFQjCNEWLXzo6L-wEMhTCLiEXZNk3LA-bA&cad=rja

3. Subieta K., Zarzadzanie przeplywem pracy II 1998.ppt
http://www.google.com/url?sa=t&rct=j&q=system%20zarz%C4%85dzania%20przep%C5%82ywem%20prac&source=web&cd=2&ved=0CC0QFjAB&url=http%3A%2F%2Fwww.ipipan.waw.pl%2F~subieta%2Fprezentacje%2FZarzadzanie%2520przeplywem%2520pracy%2520II%25201998.PPT&ei=2i5eT_vfM8aAOpah9JoN&usg=AFQjCNEqhRtf4KtJlRFVHqygc1_Xdkjjpw&cad=rja

4. Bartoszek J., Brzykcy G., Wybrane elementy środowiska informatycznego, Wydawnictwo PP, Poznań, 2000

Result of average student's workload

Activity	Time (working hours)
1. Paricipation in lectures	15
2. Participation in project labs.	15
3. Project modeling and design	15
4. Consultations	15

Student's workload

Source of workload	hours	ECTS
Total workload	75	3
Contact hours	45	2
Practical activities	30	1