

DESCRIPTION OF A STUDY COURSE – SYLLABUS

Title of a course	Interface of business and process systems				
Head of course	Marina Rauker Koch, Lecturer				
Study programme	Specialist professional graduate study of Information Technology in Business Systems				
Status of a course	Obligatory				
Year of study	1.	Semester	II	ECTS credits	4
Teaching plan (L + E + S+ Pr)	1+2+0+0				
Goals of a course					
Introduce students to use, role, and functioning of computer-controlled complex, process, and manufacturing systems in manufacturing companies.					
Conditions for enrolling course					
No conditions					
Learning outcomes on a level of a study programme which includes course					
Outcome 10: Explain the basic concepts of computer-controlled complex, process and production systems. Outcome 15: Analyse and recommend the use of IT tools within a business organization. Outcome 16: Assess the place and role of ICT in the context of organization, management and business processes. Outcome 17: Present ICT solutions in a business organization.					
Expected learning outcomes on a level of a course					
1. Interpret the problem of functional linking of process and business systems. 2. Analyse the basic functions of the interface between process and business systems. 3. Evaluate the concept of business and process systems as the functional level between process management and production' company planning functions. 4. Interpret the criteria for evaluating the quality of the interface and standardization recommendations about the structure of the interface between business and process systems. 5. Evaluate the application of business and process systems in a real system.					
Content of a course					
The term – a problem of disconnection between process and business systems. The outline of usual computer products that are used in these systems. A problem analysis of disconnection with the aid of chosen examples from practice. Normative recommendations for the function structure of an interface between two systems. The definition of basic interface objects and their attributes. The definition of the MES system (Manufacturing Execution Systems) – excellent manufacturing systems. A basic structure of an executive production system: basic functions and support functions. Concrete realization examples. Criteria for choosing complete solutions.					
Teaching modes	<input checked="" type="checkbox"/> lectures <input type="checkbox"/> auditory exercises <input checked="" type="checkbox"/> seminars and workshops <input type="checkbox"/> distance learning <input type="checkbox"/> field classes		<input checked="" type="checkbox"/> individual assignments <input type="checkbox"/> multimedia and network <input type="checkbox"/> laboratory <input type="checkbox"/> supervisor's work <input type="checkbox"/> other _____		
Comments					
Students' obligations					
Grading, evaluation and monitoring of students' work continuously during lectures and exams					
Grading is based upon evaluation of course's learning outcomes' adoption. Grading is performed continuously during lectures and/or during exam, in compliance with the provisions of Regulation on the assessment of					

students.

Continuous check-up:

Outcomes	Written test	Seminar / report	Presentation	Threshold	Max
Outcome 1	15			7,5	15
Outcome 2	15			7,5	15
Outcome 3		20	5	12,5	25
Outcome 4		20	5	12,5	25
Outcome 5		20		10	20
Percentage of ECTS	1,5	2	0,5		
Total	30	60	10	50 %	100 %

A student has passed the exam if he has acquired a percentage of credits for each learning outcome higher or equal to defined threshold.

Exam term:

Outcomes	Written exam	Oral exam	Max
Outcome 1	15		10
Outcome 2	15		10
Outcome 3	20	5	25
Outcome 4		25	25
Outcome 5		20	20
Percentage of ECTS	2	2	
Total	50	50	100 %

A student has passed the exam if he has acquired a percentage of credits for each learning outcome higher or equal to defined threshold.

Grading:

A student has passed the exam if he has acquired at least 50% of anticipated credits of a specific learning outcome.

If a student has passed learning outcomes of all courses, the accomplished credits (percentages) of all passed learning outcomes are being added, while the final grade is defined upon following table:

Range of credits (percentages)	Numerical grade	ECTS grade
90,00 – 100,00	Excellent (5)	A
75,00 – 89,99	Very good (4)	B
60,00 – 74,99	Good (3)	C
50,00 – 59,99	Sufficient (2)	D
0,00 – 49,99	Insufficient (1)	F

Obligatory literature

1. Meyer H., Fuchs F.: Manufacturing Execution Systems (MES): Optimal Design, Planning, and Deployment, 2009.;
2. Blažević, D.: Softverska podrška aktivnostima plansko - izvršne funkcije poduzeća, Tehnički fakultet Rijeka,

Additional literature

1. ISA S95 i S88 standard

