

## DESCRIPTION OF A STUDY COURSE – SYLLABUS

<b>Title of a course</b>	Information Systems of Production				
<b>Head of course</b>	MSc Vesna Krajčić, Lecturer				
<b>Study programme</b>	Professional undergraduate study Information Science				
<b>Status of a course</b>	Elective				
<b>Year of study</b>	3.	<b>Semester</b>	V	<b>ECTS credits</b>	5
<b>Teaching plan (L + E + S+ Pr)</b>	2+2+0+0				
<b>Goals of a course</b>					
Acquisition of specific competences in the fields of developing information systems and planning and management of production systems. From general competences, developing the ability to analyse and synthesize, work independently and work in small groups (team work) and present the achieved results.					
<b>Conditions for enrolling course</b>					
No conditions					
<b>Learning outcomes on a level of a study programme which includes course</b>					
<p>Outcome 5: Apply website design and implementation methods.</p> <p>Outcome 11: Apply mathematical and statistical methods in information science.</p> <p>Outcome 12: Apply engineering methods and principles in information science.</p> <p>Outcome 13: Apply manners of organizing business systems and marketing of products and services in information science.</p> <p>Outcome 14: Participate in teamwork.</p> <p>Outcome 15: Independently present professional content in written and spoken form in Croatian and English.</p>					
<b>Expected learning outcomes on a level of a course</b>					
<ol style="list-style-type: none"> <li>1. Distinguish types of production, production systems layouts and their balancing.</li> <li>2. Analyse the throughput of a production system and the management of production and product quality at a company with an information system.</li> <li>3. Explain technical aspects of information system of production and decision-support system.</li> <li>4. Describe development, characteristics and structure of information system in a company, basic system for automation in production and the procedure for implementing information system of a production.</li> </ol>					
<b>Content of a course</b>					
<p>Concept of information system of production. Functional description of the business process: purchasing, selling and production. System structure. Information subsystems of purchasing, selling and production. Structuring of input and output data. Need for system development. Preparation, selection and data input into the system.</p> <p>Students elaborate different tasks selected from practice or literature.</p>					
<b>Teaching modes</b>	<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 _____		
<b>Comments</b>					
<b>Students' obligations</b>					
<b>Grading, evaluation and monitoring of students' work continuously during lectures and exams</b>					
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:****Continuous assessment for full-time students:**

Outcomes	Pre-exam I	Pre-exam 2	Project task	Threshold	Max
Outcome 1	16 %	-	4 %	10 %	20 %
Outcome 2	16 %	-	4 %	10 %	20 %
Outcome 3	16 %	-	4 %	10 %	20 %
Outcome 4	-	16 %	4 %	10 %	20 %
Outcome 5	-	16 %	4 %	10 %	20 %
Percentage of ECTS	2.4	1.6	1	-	-
Total	48 %	32 %	20 %	50 %	100 %

**Continuous assessment for part-time students:**

Outcomes	Pre-exam I	Pre-exam 2	Computing tasks	Threshold	Max
Outcome 1	10 %	-	10 %	10 %	20 %
Outcome 2	10 %	-	10 %	10 %	20 %
Outcome 3	20 %	-	-	10 %	20 %
Outcome 4	-	20 %	-	10 %	20 %
Outcome 5	-	20 %	-	10 %	20 %
Percentage of ECTS	2	2	1	-	-
Total	40 %	40 %	20 %	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	16 %	4 %	20 %
Outcome 2	16 %	4 %	20 %
Outcome 3	16 %	4 %	20 %
Outcome 4	16 %	4 %	20 %
Outcome 5	16 %	4 %	20 %
Percentage of ECTS	4	1	-
Total	80 %	20 %	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

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| <ol style="list-style-type: none"><li>1. Bogdan, S.; Petrović, T.: Projektiranje proizvodnih sustava, Fakultet elektrotehnike i računarstva, Zagreb, 2012.</li><li>2. Majdandžić, N.: Izgradnja informacijskih sustava proizvodnih poduzeća, Strojarski fakultet, Slavonski Brod, 2004.</li><li>3. Mikac, T.; Blažević, D.: Planiranje i upravljanje proizvodnjom, Tehnički fakultet, Rijeka, 2007.</li></ol> |
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<b>Additional literature</b>
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| <ol style="list-style-type: none"><li>1. Majdandžić, N.: Upravljanje proizvodnjom, Strojarski fakultet, Slavonski Brod, 2001.</li><li>2. Žugaj, M.: Informacijski sustavi proizvodnje, Informator, Zagreb, 1992.</li></ol> |
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