Załącznik nr 9 do Zarządzenia Rektora PŚk Nr 35/19 w brzmieniu ustalonym Zarządzeniem Nr 12/22

COURSE DESCRIPTION

Course and	full-time studies
Course code	part-time-studies
Course name	Informatyczne systemy zarządzania
Course name in English	Management information systems
Valid from academic year	2022/23

PLACEMENT IN THE TEACHING PROGRAM

Field of study	Computer Science
Level of education	1 st degree
Studies profile	General
Form and method of teaching classes	Full-time and part-time studies
Specialization	Information systems
Organizational unit responsible for the course	Katedra Informatyki Stosowanej
Course coordinator	Dr hab inż. Paweł Sitek prof. PŚK
Approved by	Dean of the Faculty of Electrical Engineering, Automatic Control and Computer Science Roman Deniziak, KUT prof., DSc, PhD

GENERAL CHARACTERISTIC OF THE COURSE

Course affiliation		Specialty education subject					
Course status		Obligatory					
Language		English					
Semester	full-time studies	Semester V					
Semester	part-time-studies	Semester VI					
Requirements							
Exam (YES/NO)		NO					
ECTS		4					

Course form	1	lecture	classes	laboratory	project	other
Hours per	full-time studies	30		30		
semester	part-time-studies	18		18		

LEARNING RESULTS

Category	Result symbol	Learning results	References to the field of study results
	W01	Knows and understands the principles of: construction, functioning and classification of IT management systems.	INF_W26
Knowledge	W02	INF_W26	
	W03	Knows and understands the basic methods of designing and advanced planning and scheduling of production, logistics and auxiliary processes.	INF_W26
	U01	INF_U26	
Skills	U02 Student is able to use methods of advanced planning and scheduling of production and logistics processes and to verify and analyze the results obtained.		INF_U26
Social	K01	Student is ready to prioritize actions.	INF_K1
competence	K02	Student is ready to work in a team, solve tasks together.	INF_K2

TREŚCI PROGRAMOWE

Course form	Content
lecture	 Basic concepts concerning: classification, structure of IT management systems, production and logistics processes, types of production, etc. An exemplary production company. Project: production structure, logistic structure, product structure as well as fixed and variable data. Implementation of structures and data in an example ERP class system. Material Requirements Planning Method - MRP (assumptions, algorithm, numerical examples). MRP method in an example ERP system. Advanced methods of planning and scheduling orders and operations - APS systems.
laboratory	 Data design for an example discrete manufacturing company. Input of constant data to the selected production control system. Using the selected ERP class production management system, simulate the company's production processes.

LEARNING RESULTS VERIFICATION METHODS

Result	Learning results verification methods										
symbol	Oral exam	Written exam	Midterm	Project	Report	Others					
W01			Х		Х						
W04			Х		Х						
W03			Х		Х						
W04			Х		Х						
U01					Х						
U02					Х						
U03					Х						
K01					Х						
K02					Х						

ASSESSMENT FORMS AND CRITERIA

Course Form	Assessment Form	Assessment Criteria
lecture	pass with a grade	Obtaining at least 50% of the points in the written test
laboratory	pass with a grade	Average grade for completing tasks in class and reports.

STUDENT'S VOLUME OF WORK

ECTS points balance												
No Activity Type		Student Involvement								Unit		
-	Activity Type	fu	II-tir	ne stı	udie	s	ра	rt-ti	me-st	udi	es	
1.	Participation in classes according to	Lec	С	Lab	Р	S	Lec	С	Lab	Р	S	h
١.	the schedule	30		30			18		18			.,
2.	Other (consultations, exams)	2		2			1		1			h
3.	Total with the direct assist of an academic teacher	64			38					h		
4.	Number of ECTS, that students obtains with the direct assist of an academic teacher	2,56			1,52					ECTS		
5.	Hours of unassisted student work	36			62					h		
6.	Number of ECTS that student obtains working unassisted	1,44			2,48					ECTS		
7.	Practical classes volume of work		30			18					h	
8.	Number of ECTS obtained by student at practical classes	1,20			0,72					ECTS		
9.	Total student's volume of work expressed in hours	100			100				h			
10.	ECTS	4					ECTS					

REFERENCES

- 1. Gospodarek T.: Systemy ERP. Modelowanie, projektowanie, wdrażanie, Helion 2015.
- 2. Landvater D.V., Gray C.D.: MRP II Standard System, Oliver Wight Publications, 1989.
- 3. Banaszak Z., Kłos S., Mleczko J. :ZINTEGROWANE SYSTEMY ZARZĄDZANIA, PWE ,2016
- 4. Skrzypek J., Kukuła K., Jędrzejczyk Z.: Badania operacyjne w przykładach i zadaniach, PWN, 2019.