STUDY MODULE DESCRIPTION FORM						
	f the module/subject ligent Manageme	Code 1011101351011124060				
Field of Engi	,	ment - Full-time studies -	Profile of study (general academic, practical) (brak)	Year /Semester 3 / 5		
Elective	path/specialty	_	Subject offered in: Polish	Course (compulsory, elective)		
Cycle o	f study:	-	Form of study (full-time,part-time)			
First-cycle studies full-time						
No. of h	iours			No. of credits		
Lectu	re: 15 Classes	s: 15 Laboratory: -	Project/seminars:	- 4		
Status o	of the course in the study	program (Basic, major, other)	(university-wide, from another f	ield)		
		(brak)		(brak)		
Educati	on areas and fields of sci	ence and art		ECTS distribution (number and %)		
techr	nical sciences	4 100%				
	Technical scie	4 100%				
ul. 8 Prere 1 2 3	Wydział Wydział Inżynierii Zarządzania ul. Strzelecka 11 60-965 Poznań rerequisites in terms of knowledge, skills and social competencies: Knowledge The student knows principals of management, basics of application of computer science in management. Skills The student is able to apply properly notions from the area of management and computer science. Social competencies The student is aware of the necessity for widening own knowledge and is willing to cooperate within a group.					
	• •	ectives of the course:				
		g Management students interest or artificial intelligence in Management		application of expert systems and		
	Study outco	mes and reference to the	educational results for	a field of study		
Knov	vledge:					
		knowledge on the life cycle of soci	, ,			
	student has the basic nzA_W04]	knowledge on management, includ	aing quality management and	running a business activity -		
Skills						
		n and make experiments, including d draw conclusions - [K01-InzA_L		simulations, he/she knows hw to		
	student is able to use nzA_U2]	analytical, simulation and experime	ental methods for formulating	and solving engineer tasks -		
		ce system, social and technical, org neer problems - [K01-InzA_U3]	ganizational and economical a	and non-technical aspects in		
		ke a preliminary economical analysi	is for initiated engineer proble	ms - [K01-InzA_U4]		
	al competencies:		toophical concets and require	of the engineer estivity		
 The student is aware of the importance and understands non-technical aspects and results of the engineer activity, including its impact on the environment and the responsibility for made decisions that correlate with it - [K01-InzA_K1] The student is aware of the fact that creating products for satisfying needs of users require a system approach - [K01- 						
2. The InzA k		e ract that creating products for sat	isrying needs of users require	a system approach - [K01-		

Assessment methods of study outcomes

Forming evaluation:

Classes: on basis of the evaluation of the current progress in realization of tasks

Lectures: on basis of responses to questions concerning issues discussed on previous lectures.

Final evaluation:

Written test on the knowledge of issues presented during classes and project prepared in teams, concerning a chosen topic. Written test on the knowledge of issues presented during lectures ? on basis of the final colloquium.

Course description

The course of the subject encloses five topic modules. The first module concerns problems of the intelligence in general, the process of information processing and in result ? the notion of the artificial intelligence in the robotic context and information systems in management and safety engineering. It also touches the issue of an intelligent dilemma of the sixth cycle.

The second and third module encloses the question of gaining knowledge. Methods of knowledge representation, creation and reconstruction of professional databases and strategies of expert methods for solving problems. These modules have a rather methodological character and they refer among other to heuristics and strategies of searching graphs, as well as the comparison of classical and dispersed methods of reasoning. The fourth module and the fifth one have an instrumental character. They present chosen instruments of artificial intelligence, like: artificial neuron networks and evolution algorithms. They show the way of applying them in management. They also present problems of hybrid systems and the theory of chaos.

Basic bibliography:

Additional bibliography:

Result of average stud	dent's workload	
Activity		Time (working hours)
1. Lecture		15
2. Classes		15
3. Preparation for classes and lectures		18
4. Consultations	30	
5. Preparation for the final assessment		20
6. Final assessment		2
Student's wo	rkload	
Source of workload	hours	ECTS
Total workload	100	4
Contact hours	62	2

15

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Practical activities