

<b>STUDY MODULE DESCRIPTION FORM</b>		
Name of the module/subject <b>Modules of management information systems</b>		Code <b>1011102221011115114</b>
Field of study <b>Engineering Management - Full-time studies -</b>	Profile of study (general academic, practical) <b>(brak)</b>	Year /Semester <b>1 / 2</b>
Elective path/specialty <b>Enterprise Management</b>	Subject offered in: <b>Polish</b>	Course (compulsory, elective) <b>elective</b>
Cycle of study: <b>Second-cycle studies</b>	Form of study (full-time, part-time) <b>full-time</b>	
No. of hours Lecture: <b>15</b> Classes: <b>-</b> Laboratory: <b>15</b> Project/seminars: <b>-</b>		No. of credits <b>2</b>
Status of the course in the study program (Basic, major, other) <b>(brak)</b>		(university-wide, from another field) <b>(brak)</b>
Education areas and fields of science and art <b>technical sciences</b> <b>Technical sciences</b>		ECTS distribution (number and %) <b>2 100%</b> <b>2 100%</b>
<b>Responsible for subject / lecturer:</b> dr inż. Agnieszka Stachowiak email: agnieszka.stachowiak@put.poznan.pl tel. tel. 61 665 3401 Wydział Wydział Inżynierii Zarządzania ul. Strzelecka 11, 60-965 Poznańtel.: 061 665 33 74		<b>Responsible for subject / lecturer:</b> dr inż. Agnieszka Stachowiak email: agnieszka.stachowiak@put.poznan.pl tel. tel. 61 665 3401 Wydział Wydział Inżynierii Zarządzania ul. Strzelecka 11, 60-965 Poznańtel.: 061 665 33 74
<b>Prerequisites in terms of knowledge, skills and social competencies:</b>		
1	<b>Knowledge</b>	Basics of production organization and logistics
2	<b>Skills</b>	Ability to see, relate and analyze phenomenas within production and logistics
3	<b>Social competencies</b>	Understanding and readiness for taking social responsibility for decisions connected with designing and implementation of IT systems supporting management
<b>Assumptions and objectives of the course:</b> Providing students with knowledge on integrated IT systems of ERP class and presentation of basic modules of these systems		
<b>Study outcomes and reference to the educational results for a field of study</b>		
<b>Knowledge:</b>		
1. Has knowledge of the subject of contextual sciences in relation to management sciences and ergological sciences and applied research methods in them as well as common and specific conceptual apparatus in relation to management sciences - [K2A_W01]		
2. Has in-depth knowledge of the determinants of organizational structures and the mechanisms of changes in the organizational structures of enterprises - [K2A_W03]		
3. He knows the methods and tools of process modeling in a deeper way - [K2A_W08]		
4. Has in-depth knowledge of the processes of changes in organizational structures and management of these changes - [K2A_W15]		
<b>Skills:</b>		
1. Can analyze causes and flows of materials and social phenomenas (cultural, politic, legal and economic) and fomulate opinions, as well as define simple research hypothesis to be verified - [K2A_U03]		
2. Has the ability to use the knowledge possessed in many ranges and forms and increase it with critical analysis of efficiency and usability - [K2A_U06]		
3. Has the ability of individual development of solutions of a given management problem and making decisions concerning the solution developed - [K2A_U07]		
4. - [-]		
<b>Social competencies:</b>		

1. Understands the need and knows the possibilities of continuous education (third-cycle studies, post-graduate studies, courses)-raising professional, personal and social competences; can argue the need for lifelong learning - [K2A\_K01]  
 2. Student is aware of interdisciplinary character of the knowledge and skills necessary to solve complex organizational problems and the need to create interdisciplinary teams - [K2A\_K06]

### Assessment methods of study outcomes

Forming rating:

- a) in the field of laboratory classes: on the basis of an assessment of the current progress of task implementation,  
 b) in the scope of lectures: on the basis of written or oral answers to questions regarding the material processed in the current and previous lectures,

Summary rating:

- a) in the scope of laboratory classes: the average grade for completed tasks  
 b) in the field of lectures: final test.

### Course description

The lecture begins by discussing the ERP standard and its core modules. Next, the basic modules that make up the ERP class systems are discussed in turn: production and sales planning, main planning, main schedule, material demand planning (distribution), potential demand planning, financial planning.

During laboratory classes, students become familiar with the functioning of the basic modules of the ERP class system on the example of the Axapta system.

Teaching methods: conventional specialist lecture, laboratory exercises using the AXAPTA system, work with literature.

### Basic bibliography:

- Fertsch M. Metoda planowania zapotrzebowania materiałowego w planowaniu produkcji i sterowania jej przebiegiem, Wydawnictwo Politechniki Poznańskiej, Poznań
- Fertsch M., Fertsch M., Moduły systemów informatycznych zarządzania, Wydawnictwo Politechniki Poznańskiej, Poznań 2011
- Senger Z., Sterowanie przepływem produkcji, Wydawnictwo Politechniki Poznańskiej, Poznań, 1998
- Fertsch M., Podstawy zarządzania przepływem materiałów w przykładach, Biblioteka Logistyka, Wydawnictwo ILiM, Poznań, 2003

### Additional bibliography:

- Brzeziński M., Organizacja i sterowanie produkcją. Projektowanie systemów produkcyjnych i procesów sterowania produkcją, Agencja Wydawnicza Placet, Warszawa 2002
- Hadaś Ł., Fertsch M., Cyplik P., Planowanie i sterowanie produkcją, Wydawnictwo Politechniki Poznańskiej, Poznań, 2012

### Result of average student's workload

Activity	Time (working hours)
1. lecture	15
2. laboratory	15
3. consultation	10
4. preparing for classes	9
5. independent student work	9
6. final test	2

### Student's workload

Source of workload	hours	ECTS
Total workload	60	2
Contact hours	30	1
Practical activities	34	1