STUDY MODULE DE	SCRIPTION FORM	
Name of the module/subject Contemporary conceptions of shop floor control		Code 1011105331011115174
Field of study Engineering Management - Part-time studies -	Profile of study (general academic, practical) general academic	Year /Semester
Elective path/specialty Production and Operations Managemen	Subject offered in:	Course (compulsory, elective) elective
Cycle of study:	Form of study (full-time,part-time)	
Second-cycle studies	part-time	
No. of hours Lecture: 12 Classes: 12 Laboratory: -	Project/seminars:	No. of credits
Status of the course in the study program (Basic, major, other) (university-wide, from another field) other university-wide		
Education areas and fields of science and art		ECTS distribution (number and %)
technical sciences		3 100%
Technical sciences		3 100%
Responsible for subject / lecturer:		1

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Prerequisites in terms of knowledge, skills and social competencies:

1	Knowledge	The student knows the basic terms related to the production management	
2	Skills	The student has the ability to perceive and interpret the facts taking place in the sphere of production	
3	Social competencies	The student understands the responsibility for decisions related to planning and shop floor control of production	

Assumptions and objectives of the course:

-Getting to Know the basics of the issues relevant to the field of production planning, presentation methods of production planning and shop floor control, and their conditions of use. Realization of the project system for planning and the system of production planning and shop floor control

Study outcomes and reference to the educational results for a field of study

Knowledge:

- 1. He has knowledge of the methods production planning and shop floor control [K2A_W01]
- 2. He has expanded knowledge of organizational relationships existing between organizational units of the company [K2A_W05]
- 3. He knows the methods and tools for modeling decision-making processes, algorithms, and their inter-action of cause and effect in a hierarchical system of production planning and time relations [K2A_W09]
- 4. He has expanded knowledge about the mechanisms of creation business-organizing at the level of creation of production units [K2A_W12]

Skills:

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- 1. He is able to use theoretical knowledge to describe and analyze the processes in production planning system and can formulate their own opinions and choose the critical data and analysis [K2A_U02]
- 2. He is able to properly analyze the causes and course of the processes in production planning system to formulate their own opinions on the subject and formulate simple hypotheses and verify them [K2A_U03]
- 3. He is able to modeling complex phenomena involving processes in area of production planning using advanced methods and tools in the field of economics and management science discipline [K2A_U04]
- 4. He has the ability to use the knowledge gained in the field of production planning and control, enhanced by a critical analysis of the effectiveness and suitability of applied knowledge [K2A_U06]
- 5. He has the ability to self-propose solutions to the specific problem of the management in the production planning and shop floor control [K2A_U07]

Social competencies:

- 1. He has a sense of responsibility for their own work and the willingness to comply with the rules of work in a team and to take responsibility for collaborative tasks [K2A_K02]
- 2. He can see cause and effect depending on the system design production planning and shop floor control, and able to prioritize their importance [K2A_K03]
- 3. He is aware of the interdisciplinary nature of knowledge of production management and have the skills required to solve complex problems of organization [K2A_K06]

Assessment methods of study outcomes

- Formative assessment:
- a) For the classes: on the basis of progress in the implementation stages of the project, and knowledge of the issues necessary to carry b) for the laboratory: on the basis of discussions on knowledge of the issues necessary for the proper performance of the laboratory exercises c) for the lecture: on the basis of answers to questions about the topics covered in previous lectures

Recapitulative assessment:

a) For the classes: on the basis of (1) the quality of the project (2) answers to questions about the project b) for the lecture: on the basis of colloquium - written work on the issues discussed during the lecture. The colloquium can be applied after obtaining the ratings of the project. The colloquium is passed, after giving the correct answers to most questions

Course description

-Lecture: It begins by recalling the essence and principles of production control. Next discussed are the modern concepts of production control - material requirements planning, can-ban tool, rule priorities, EMS systems, OPT (Theory of Constraints), BOA, FZ. Are presented possibilities are the use and application of computer aided tools in the field of artificial intelligence in the area of production control.

Classes: Creation of the planning and shop floor control system for the fixed production and organizational conditions including the planning at the level of finished goods, components and operations based on the knowledge presented on the lecture.

Didactic methods:

Lecture: information and problem lecture,

Classes: project method.

Basic bibliography:

- 1. Dwiliński L., Zarządzanie produkcją Wydawnicza Politechniki Warszawskiej Warszawa 2002
- 2. Fertsch M., Podstawy zarządzania przepływem materiałów w przykładach Wydawnictwo IliM Poznań 2003
- 3. Kosieradzka A.(red.), Podstawy zarządzania produkcją. Ćwiczenia Wydawnicza Politechniki Warszawskiej Warszawa 2008
- 4. Senger Z., Sterowanie przepływem produkcji WPP Poznań 1998

Additional bibliography:

- 1. Brzeziński M., Organizacja i sterowanie produkcją. Projektowanie systemów produkcyjnych i procesów sterowania produkcją, Agencja Wydawnicza Placet, Warszawa 2002.
- 2. 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	12
2. Classes	12
3. Own study/work	20
4. Consultations	16
5. Preparation to pass the subject	15

Student's workload Source of workload hours ECTS Total workload 75 3 Contact hours 40 2 Practical activities 15 1