

| STUDY MODULE DESCRIPTION FORM | | |
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| Name of the module/subject Computer Integrated Manufacturing | | Code 1011102331011115175 |
| Field of study Engineering Management - Full-time studies - | Profile of study (general academic, practical) (brak) | Year /Semester 2 / 3 |
| Elective path/specialty Production and Operations Management | Subject offered in: Polish | Course (compulsory, elective) elective |
| Cycle of study: Second-cycle studies | Form of study (full-time, part-time) full-time | |
| No. of hours Lecture: 15 Classes: - Laboratory: 15 Project/seminars: 15 | | No. of credits 4 |
| Status of the course in the study program (Basic, major, other) (brak) | | (university-wide, from another field) (brak) |
| Education areas and fields of science and art technical sciences | | ECTS distribution (number and %) 100 3% |
| Responsible for subject / lecturer: dr dr hab. inż. Marek Fertsch, prof. nadzw. email: marek.fertsch@put.poznan.pl tel. tel. 061 665 34 01 Inżynierii Zarządzania ul. Strzelecka 11, 60-965 Poznań, tel. (61) 665 3374 | | Responsible for subject / lecturer: dr hab. inż. Marek Fertsch, prof. nadzw. email: marek.fertsch@put.poznan.pl tel. tel. 061 665 34 01 Inżynierii Zarządzania ul. Strzelecka 11, 60-965 Poznań, tel. (61) 665 3374 |
| Prerequisites in terms of knowledge, skills and social competencies: | | |
| 1 | Knowledge | Knowledge of the organization of flexible manufacturing systems and modern concepts of production control. |
| 2 | Skills | Efficient use of basic computer techniques. |
| 3 | Social competencies | Ability to work in a team. |
| Assumptions and objectives of the course: To acquaint students with the nature and operation of computer-integrated manufacturing systems. Knowing the students the basic features of these systems, their enforcement and the difficulties of this task. | | |
| Study outcomes and reference to the educational results for a field of study | | |
| Knowledge: | | |
| 1. 1. It has in-depth knowledge of clusters, forms of multinational corporations and virtual enterprises. - [[K2A_W04]] 2. 2. Has knowledge about the relationship occurring in corporations and holding companies, and in-depth knowledge of organizational relationships that exist between organizational units of the company - [[K2A_W05]] 3. 3. He knows the way dredged methods and tools for process modeling information - [[K2A_W08]] 4. 4. He knows the methods modeling tools and decision-making processes - [[K2A_W09]] | | |
| Skills: | | |
| 1. 1. Can use theoretical knowledge to describe and analyze the causes and processes and phenomena of social (cultural, political, legal, economic) and is able to formulate their own opinions and choose critical data and methods of analysis - [[K2A_U02]] 2. 2. Can correctly analyze the causes and course processes and phenomena of social (cultural, political, legal, economic), formulate their own opinions on the subject and put simple hypotheses and verify them - [[K2A_U03]] 3. 3. has the ability to use the acquired knowledge in different areas and forms, extended on a critical analysis of the effectiveness and the usefulness of applied knowledge - [[K2A_U06]] | | |
| Social competencies: | | |

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| <p>1. 1. It has a sense of responsibility for own work and a willingness to comply with the principles of teamwork and responsibility for jointly implemented tasks - [[S2A_K02]]</p> <p>2. 2. He can see the cause and effect in the implementation of its goals and define importance of alternative or competitive tasks - [[S2A_K03]]</p> <p>3. 3. Is aware of interdisciplinary knowledge and skills needed to solve complex problems of organization and the need to create interdisciplinary teams - [[S2A_K06]]</p> |
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| Assessment methods of study outcomes | | |
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| <p>-Forming Rating: Rating made on the basis of the project. Rating laboratory based on the student's progress and on the basis of answers to questions concerning the material discussed in previous classes. Rating summary: Based on the analyzes (including case studies), assessments and plans and final test.</p> | | |
| Course description | | |
| <p>-The lecture begins with an explanation of "computer-integrated manufacturing." Discussed are the basic modules of CIM - CAD (computer-aided design, CAPP (computer-aided design technology), CAM (computer aided manufacturing), PPC (production planning), CAQ (computer-aided quality management). The are variants of the individual modules and their possible configurations. presented is the process of implementation of CIM. in some cases discussed are difficulties associated with this process. During the course of design students work on design assumptions for the implementation of CIM in the selected company. in the laboratory students become familiar with the operation of selected modules of CIM.</p> | | |
| Basic bibliography: | | |
| <p>1. [1] Cohen, W.A., High-tech Management, American Management Association, 1990. 2. [2] Knosala M., (red.), Komputerowo zintegrowane zarządzanie, WNT, Warszawa 2007.</p> | | |
| Additional bibliography: | | |
| Result of average student's workload | | |
| Activity | Time (working hours) | |
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| Student's workload | | |
| Source of workload | hours | ECTS |
| Total workload | 108 | 4 |
| Contact hours | 58 | 2 |
| Practical activities | 30 | 1 |