Information sheet for the course CA systems and controlning of production and technological processes

University: Alexander Dubček University of Trenčín

Faculty: Faculty of special technology

Course unit code: STaM/D/3-55/e Course unit title: CA systems and controlning

of production and technological processes

Type of course unit: *compulsory*

Planned types, learning activities and teaching methods:

3 lecture hours, 1 lab hour per week, part-time

Number of credits: 15

Recommended semester: *1st and 2st semester in the 1st year*

Degree of study: III.

Course prerequisites: *none*

Assessment methods:

Active participation in laboratory exercises and submission semester work. The test consists of a written test and an oral preparation in the range of curriculum subject.

Learning outcomes of the course unit:

Provide complete and comprehensive information on existing CA systems in engineering production of computer-aided design and engineering process, familiar with the architecture and functions of the various systems and learn how to practically apply in the study the art of the possible application in science and research.

Course contents:

Defining the actual implementation of components during the technological process, including the preparatory work for the evaluation of design and technological documentation, to ensure the supply of intermediate goods, tools, jigs, gauges and tools for technological process. Defining energy and information flow and other preparatory activities related to the production of parts. Computer integrated manufacturingCIM. Computer Aided Design CAD. Computer-aided design of technological processes CAPP. Integration of CAD / CAPP systems. Computer Aided Manufacturing CAM. Integration of CAD / CAM systems. Standardization of CA systems. Application systems in production PPS. Applicationsystems in production and special production techniques.

Recommended of required reading:

- [1] MEDVECKÝ, Š. a kol.: Konštruovanie so systémom Pro/ENGINEER. Žilina, ES ŽU, 1997. ISBN 80-7100-450-2.
- [2] ČUBOŇOVÁ, N. SALAJ, J. URÍČEK, J.: Obrábanie v systéme Pro/ENGINEER. Žilina, EDIS, 2000.
- [3] VASKÝ, J. NEMLAHA, E. MASÁR, L.: CAD/CAM systémy. Bratislava, Vydavateľstvo STU, 2003.
- [4] KURIC, I. KOŠTURIAK, J. JANÁČ, A. PETERKA, J. MARCINIČIN, J.N.: Počítačom podporované systémy v strojárstve. Žilina, EDIS, 2002.

Language: Slovak

Remarks:

The subject is provided in the winter and the summer semester in the first year of part-time study. Compulsory subject.

Evaluation history

Total number of students being evaluated: 0

A	В	С	D	Е	FX
0	0	0	0	0	0

Lecturers: Assoc. prof. Ing. Harold Mäsiar, CSc. – lecturer

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Supervisor: prof. Ing. Vojtěch Hrubý, CSc., guarantee of the study program "Technologies and Materials in Mechanical Engineering", Assoc. prof. Ing. Ondrej Híreš, CSc., Assoc. prof. Ing. Viliam Cibulka, CSc. – together-guarantors.