Title:	Production Engineering
Lecture hours:	30 Kon.
Lecture nours.	Non.
Study period:	Winter, summer
(summer/winter)	
Number of credits:	4
Assessment methods:	Reports, preparation of a presentation on a given topic,
Language of instruction:	English
Prerequisites:	Machine construction basics, Materials Science, Rudiments of Physics
Course content:	Characteristics of production processes, semi-finished, machines, machining allowances.
	Methods of cutting and joining materials. Methods of material processing. Metal forming. Casting, plastic working, machining, 3D printing methods. General construction of lathes,
	milling machines, drills, grinders. Construction of cutting tools. Blade geometry. Workpiece
	clamping and workshop aids. Organization of the workplace. Components of the
	technological process. Design principles and framework technological processes of various
	machine elements. Basic principles of CNC programming in the MTS CNC simulator. Code
	analysis, selection of tools and cutting parameters using the MTS CNC simulator.
Learning outcomes:	The result of the course will be familiar with the characteristics of the production processes.
	Acquiring knowledge about methods of materials processing engineering. Getting to know the technique of manufacturing machine parts.
	the technique of manufacturing machine parts.
Name of lecturer:	Dr inż. Andrzej Trafarski
Contact (email address):	trafarski@ukw.edu.pl
Contact (chian address):	Taland Car wood p
Literature:	Rajender Singh: Introduction to basic manufacturing processes and
	workshop technology, New Age Int. Publishers
	2. Mikell P. Groover: Fundamentals of Modern Manufacturing, Materials, Processes, and Systems, John Wiley & Sons, Inc.
	3. Hwaiyu Geng: Manufacturing Engineering Handbook, McGraw Hill
	Professional
	4. DeGarmo's Materials and Processes in Manufacturing, John Wiley &
	Sons, Inc
	5. Thomas Childs, Katsuhiro Maekawa, Toshiyuki Obikawa, Yasuo
	Yamane: Metal Machining Theory and Applications, John Wiley & Sons Inc.
	6. Fundamentals of CNC Machining A Practical Guide for Beginners
	Compliments of Autodesk, Inc.
	7. Serope Kalpakjian, Steven Schmid: Manufacturing Processes for
	Engineering Materials, Pearson
	8. Philip D. Rufe, Philip D. Rufe: Fundamentals of Manufacturing, Society
	of Manufacturing Engineers. 9. Andrew Yeh, Ching Nee: Handbook of Manufacturing Engineering and
	7. Andrew Ten, Ching Nee. Handbook of Mandracturing Engineering and Technology, Springer London
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