

Course title: NC Technique in Part Production	Neptun code: GEGTT423-a
Course coordinator: name, position, scientific degree Dr. Csaba Felhő, associate professor, PhD	
type and number of lesson: lecture, 2/week	
method of accountability: colloquium	
curriculum location of the subject: spring	
pre-study conditions: -	
The task and purpose of the subject:	
Providing a comprehensive knowledge on NC technology, NC technology planning and CAD/CAM systems for advanced manufacturing of different parts.	
Course description:	
Classification of NC technologies and machine-tools, process of CNC manufacturing. Coordinate systems, zero-points, tool corrections. Structure of planning of CNC operations and technology. Operation instruction, tooling plan, coordinate-plan. Manual and computer aided programming. Structure of CNC programs. Computer aided programming, application of different CAD/CAM systems. Special requirement for machining of complicated surfaces and high speed machining.	
Required literature:	
1. Yusuf Altintas: Manufacturing Automation, Cambridge University Press, 2000., ISBN 0-521-65973-6, p285.2. Warren S. Seames: Computer Numerical Control, Concepts and Programming, ASM Delmar Thompson Learning, 2001. ISBN 0-7668-2290-7, p441.	
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