

<b>Course title: Computer Aided Production Planning</b>	<b>Neptun code: GEGTT422-a</b>
<b>Course coordinator:</b> name, position, scientific degree Dr. Csaba Felhő, associate professor, PhD	
type and number of lesson: <b>lecture, 2/week</b>	
method of accountability: <b>colloquium</b>	
curriculum location of the subject: <b>autumn</b>	
pre-study conditions: -	
<b>The task and purpose of the subject:</b>	
Providing a comprehensive knowledge on planning of machining and manufacturing processes and on structure of computer aided manufacturing systems.	
<b>Course description:</b>	
Relation between the production and technology planning. Structure of manufacturing systems and their elements. Internal structure of technological process. Technological graphs. Hierarchy levels of technology planning. Tasks of different levels and their connections to the design. Questions of automation of technology planning. CAD/CAM systems. Functional analysis of workpieces, technology proper design of parts. Methods of planning of technological operations order. Variant, generative and vario-generative methods, expert systems. Computer aided methods for determination of technological data.	
<b>Required literature:</b>	
1. Peter Scallan: Process Planning, Butterworth-Heinemann Oxford 2003, ISBN 0 7506 5129 6, p4962. T.E. Vollman: Manufacturing Planning and Control Systems, Irwin Professional Publishing, 1997, p896	
<b>Recommended literature:</b>	
1. George Chryssolouris: Manufacturing Systems: Theory and Practice, Springer., 2006, p6022. M.P.Groover: Introduction to Manufacturing Processes, Wiley Edition, 2011, p720	