

Course title: Planning of Assembly Procedures	Neptun code: GEGTT480-a
Course coordinator: Dr. István Sztankovics, PhD, senior lecturer	
type and number of lesson: 2 lecture / week	
method of accountability: colloquium	
curriculum location of the subject: autumn and spring	
pre-study conditions: -	
The task and purpose of the subject:	
The task and purpose of the course is to introduce students to modern assembly procedures, tools, and their design.	
Course description:	
The position and importance of assembly in the production process. Assembly systems, technical requirements of assembly. Assembly procedures and tools. Assembly-correct design. The technological characteristics of joining methods and their creation. The most common dissolvable and non-dissolvable joints used in automotive manufacturing. The properties of screwing, riveting, soldering, welding, clinching, cover-joints and their planning. Assembly machines and auxiliary equipment for assembly. Inspection and qualification of assembly line devices.	
Required literature:	
<ol style="list-style-type: none"> 1. Daniel E. Whitney: Mechanical Assemblies, Oxford University Press; 1st edition 2004. 2. Kalpakjian - Schmid: Manufacturing Engineering and Technology, Prentice-Hall Inc. Publ. 2001, ISBN 0-201-36131-0 	
Recommended literature:	
<ol style="list-style-type: none"> 1. Molloy, O., Warman, E. A., & Tilley, S.: Design for Manufacturing and Assembly: Concepts, architectures and implementation. Springer Science & Business Media. 2012 2. Nof, S. Y., Wilhelm, W. E., & Warnecke, H.: Industrial assembly. Springer Science & Business Media. 1997 	