Manufacturing Methods Industry 4.0

Course Description

The aim of this course is to enable students to identify and evaluate appropriate manufacturing methods in the context of Industry 4.0. For that purpose, the course provides a comprehensive introduction to such processes based on traditional, standardized manufacturing techniques that have influenced and are still influencing production processes through technological developments under the generic term Industry 4.0. These include technological advances in additive manufacturing processes that enable applications such as rapid prototyping, rapid tooling, and direct manufacturing. Finally, the course deals with the consequences of the digitalization and networking of production facilities and their elements in terms of a cyber–physical system.

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