Additive Manufacturing (AM)

Chair of Product Development
Prof. Dr.-Ing. Tamara A. J. Reinicke

Course description:

The aim of the course is to convey the current potential of additive manufacturing to students. To this end, the relevant manufacturing processes are presented in detail and the possibilities and restrictions are explained.

The processes are classified and application examples are given. The students receive an overview of the materials that can be used and the necessary data preparation as a prerequisite for production. The options for post-processing of additively manufactured components are also explained in the course.

Finally, design recommendations are given that simplify a successful entry into additive manufacturing.

In detail:

- AM manufacturing processes
- AM techniques
- Processes for metal and plastic AM
- Material characterization
- In-process control for AM
- Measurement methods in AM
- Quality management

Lecturer:
Dr.-Ing. Mohammad Reza Khosravani

Part of Modul: *Prototyping in der Konstruktion*
Modul Nr.: *4MBMA024*

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Form: *Lecture*
Amount: *2 SWS*
Credits: *3 ECTS*
Frequence: *Winter semester*
Language: *english*