

Tárgytematika / Course Description

Material- and Manufacturing Technology 1.

AJNB_ATT A018

Tárgyfelelős neve /

Teacher's name: dr. Lendvai László

Félév / Semester: 2022/23/1

Beszámolási forma /

Assesment: Folyamatos számonkérés

Tárgy heti óraszám /

Teaching hours(week): 1/1/0

Tárgy féléves óraszám /

Teaching hours(sem.): 0/0/0

OKTATÁS CÉLJA / AIM OF THE COURSE

The aim of the subject is to give an overview on manufacturing technologies. The goal is to enable the student to select a manufacturing technology for an engineering part with given functions and operating conditions. The subject gives additional knowledge on non-destructive testing methods as well.

TANTÁRGY TARTALMA / DESCRIPTION

- Steel manufacturing
- Non-ferrous metal and ceramic manufacturing
- Metal forming processes
- Sheet metal forming
- Polymer and composite technologies
- Additive manufacturing technologies
- Non-destructive testing methods

SZÁMONKÉRÉSI ÉS ÉRTÉKELÉSI RENDSZERE / ASSESSMENT'S METHOD

As specified on the first lesson.

KÖTELEZŐ IRODALOM / OBLIGATORY MATERIAL

M. Ashby et al: Engineering Materials and Processes, Butterworth 2009, ISBN 978 185 617 586 9 (e-Book: 978 008 087 839 3)

E.J. Mittemeijer: Fundamentals of Materials Science, Springer, 2011, ISBN 978-3-642-42318-5 (e-Book: 978-3-642-10500-5)