

## **Tárgytematika / Course Description** **Material- and Manufacturing Technology 1.**

**AJNB\_ATT018**

**Tárgyfelelős neve /**

**Teacher's name:** dr. Lendvai László

**Félév / Semester:** 2023/24/1

**Beszámolási forma /**

**Assesment:** Folyamatos számonkérés

**Tárgy heti óraszám /**

**Teaching hours(week):** 1/1/1

**Tárgy féléves óraszám /**

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

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### **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.

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### **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

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### **SZÁMONKÉRÉSI ÉS ÉRTÉKELÉSI RENDSZERE / ASSESMENT'S METHOD**

As specified on the first lesson.

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### **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)

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### **AJÁNLOTT IRODALOM / RECOMMENDED MATERIAL**