

## **Basics of Material Technology (BAEAAE1BNE) – e-learning course, introductory, the structure of the subject**

In industrial practice, as in everyday life, the materials used are extremely diverse. From these materials different products such as: everyday objects, tools, machines, devices and equipment are made. Material manufacturing and processing technologies produce such semi-finished products or preforms from which final products can be manufactured.

The Basics of Material Technology is systematized in an e-learning subject and presents the manufacturing technologies of metallic and non-metallic materials, beginning from metallurgy to the polymer and ceramic production technologies.

The subject is composed of 12 chapters as a digital curriculum, and the content of the chapters (lessons) is described in the course description.

Each chapter is structured as follows:

- a) Power Point Presentation, which is the core material of the chapter,
- b) digital curriculum of 2 university e-learning textbooks,

- MATERIAL TECHNOLOGIES, course bulletin, Typotex Publisher, Budapest, 2012, ISBN 978-963-279-684-0, [www.tankonyvtar.hu](http://www.tankonyvtar.hu)

- Kalpakjian, S., Schmid, S. R.: Manufacturing Engineering and Technology, Prentice Hall, 2009

- c) aids: additional, explanatory, knowledge-expanding electronic aids, web contents,
- d) video materials related to the chapter,
- e) control questions related to the chapter,
- f) electronic tests (Moodle) for the chapter.

Each chapter has a detailed learning guide that helps students learn how to acquire the curriculum.

I wish successful learning and useful acquisition of knowledge to all those students who have taken the Basics of Material Technology subject.

**Budapest, 4<sup>th</sup> of June 2021.**

**Dr. Pinke Péter**  
**subject leader**