



**UNIVERSITY OF ZENICA  
POLYTECHNIC FACULTY**



**Subject title: STANDARDIZATION**

Semester	Status	Hours per week		ECTS credit value	Code
		Lectures	Exercises		
II – II cycle	obligatory	2	2	5,5	<b>03-K16-028</b>

**Subject leader:**  
**E-mail:**

**Subject assistant:**  
**E-mail:**

**Pre-requisites**

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**Subject aims**

- To introduce students to the basic concepts of technical standardization, accreditation and certification of systems, processes and products
- To introduce students to process of adopting standards and technical regulations
- To introduce students to the national and international quality infrastructure

**Competences  
(Learning outcomes)**

- On successful completion of this subject student will be able to:
- Use national and international standards and technical regulations
  - Know and understand the process of adoption and modification of standards
  - Demonstrate conformity of the product with the standards and directives
  - Apply the acquired knowledge to check the conformity of products

**Indicative syllabus content:**

Introduction, terms and definitions. Basics of standards and standardization. Modern standardization. International, regional and national standardization organizations. Classification and labeling of standards. Development of new standards. Standards and technical regulations. New and Global Approach. Product compliance and CE marking. Testing, surveillance, inspection, auditing, certification and accreditation. Quality infrastructure. Standardization and innovation. Standardization and intellectual property protection.

**Learning delivery:**

Lectures are delivered with the use of multimedia resources, active learning technology and with active participation of students. Exercises are performed as auditory. On exercises, students go through the procedure of adoption of the standard by methods of proclaiming, covers and translation. Students also have to prepare seminar paper on the verification of compliance with technical regulations and standards of a specific product.

**Assessment Rationale:**

The assessment is based on three periodic written assessment during the semester, preparation and defense of the seminar paper, and final written exam. Students independently prepare the seminar on selected topic, in the form of written survey and public presentation with discussion in front of other students.

**Assessment Criteria**

Activity on lectures (periodic testing)	Seminar paper	Final exam
30%	30%	40%

**Reading**

Essential

1. Tanović E., Standardizacija, ISBN 9958-1975-0-2, BAKE/BAS, 2012

Supplementary

1. Zaimović-Uzunović, N.: Mjeriteljska infrastruktura, ISBN 9958-617-16-1, Mašinski fakultet u Zenici, 2003
2. CE označavanje i Tehnički propisi u BiH, Vanjskotrgovinska komora BiH, <http://komorabih.ba/ce-oznacavanje-i-tehnicki-propisi-u-bih>
3. CEN/CENELEC Vodič 17 - Uputstvo za pisanje standarda uzimajući u obzir potrebe mikro, malih i srednjih preduzeca, <http://www.bas.gov.ba>
4. ISO repository of teaching materials for higher education, <http://www.iso.org>