



**UČNI NAČRT PREDMETA / SUBJECT SPECIFICATION**

<b>Predmet:</b>	Tehniški predpisi
<b>Subject Title:</b>	Technical regulations

Študijski program Study programme	Študijska smer Study field	Letnik Year	Semester Semester
Tehnika – področje izobraževanja		1	letni
		ali	
Education in Engineering		2	zimski
		1	summer
		or	
		2	winter

Univerzitetna koda predmeta / University subject code:

Predavanja Lectures	Seminar Seminar	Sem. vaje Tutorial	Lab. vaje Labor work	Teren. vaje Field work	Samost. delo Individ. work	ECTS
15	10				155	6

Nosilec predmeta / Lecturer:

Jeziki / Languages:   
Predavanja / Lecture:   
Vaje / Tutorial:

**Pogoji za opravljanje študijskih obveznosti:**

**Prerequisites:**

**Vsebina:**

Predavanja:  
Vloga in pomen standardizacije na tehniškem in izobraževalnem področju. Normativni dokumenti (standardi, predpisi, normativi, pravilniki ...). Standardizacijske organizacije (SIST, ISO, EN, IEC, ...). Zagotavljanje kakovosti. Certificiranje. Harmonizacija predpisov in standardov. Postopki ocenjevanja skladnosti. Oznaka skladnosti CE. Certifikacijski znak. Zanesljivost tehniških sistemov. Akreditiranje laboratorijev. Priprava in prijava patentov.

Praktični primeri.

Seminar:  
Seminar aplikativno dopolnjuje vsebino predavanj z reševanjem praktičnih problemov.

**Content (Syllabus outline):**

Lectures:  
The role and importance of standardization in techniques and education. Normative documents (standards, regulations, normatives, rules ...). Standardization organizations (SIST, ISO, EN, IEC, ...). Quality assurance. Certification. Harmonization of regulations and standards. The procedures for estimation of uniformity. The CE-sign. The sign of certification. Reliability of technical systems. Accreditation of laboratories. The preparation and declaration of patents.

Practical examples.

Seminar:  
Seminar work supplements the lectures with the solutions of the practical problems.

**Temeljni literatura in viri / Textbooks:**

- SIST ISO 9001:2000.
- Rant M., Jeraj M., Ljubič T.: Vodenje projektov, POIS, Radovljica, 1995.
- Temeljna tehnična zakonodaja, UR. list RS, Ljubljana 2000.
- Evans J.R.: Total Quality: Management, Organization and Strategy, TM, 2003.
- Blank J.: Practical Reliability Engineering, Wiley, Chishester, 2004.

#### Cilji:

- podati poglobljeno teoretično znanje s področja standardizacije in tehniških predpisov;
- poglobljeno poznavanje standardizacijskih organizacij;
- podati smernice za zagotavljanje kakovosti;
- poglobljeno poznavanje postopka certificiranja;
- poglobljeno poznavanje postopka ocenjevanja skladnosti;
- poglobljeno poznavanje postopkov za pripravo in prijavi patentov;
- prikazati praktično uporabo predhodno pridobljenih teoretičnih znanj na praktičnih primerih;
- spodbujanje študentov k samostojnemu razmišljanju in razvijanju sposobnosti za kreativno reševanje inženirskih problemov.

#### Objectives:

- to provide detailed theoretical knowledge from the field of standardization and technical regulations;
- detail knowledge of standardization organizations;
- to provide guidelines for quality assurance;
- detail knowledge of certification procedure;
- detail knowledge of estimation of uniformity;
- detail knowledge of procedures for the preparation and declaration of patents;
- to demonstrate practical use of previously accumulated theoretical knowledge on the practical examples.
- to encourage the students to independent thinking and to develop their creativity in solving engineering problems.

#### Predvideni študijski rezultati:

##### Znanje in razumevanje:

- poznavanje in uporaba standardov in tehniških predpisov;
- poznavanje postopkov za zagotavljanje kakovosti;
- poznavanje postopkov certificiranja;
- razumevanje sovisnosti različnih znanj in postopkov ter pomena uporabe standardov in tehniških predpisov za učinkovito reševanje praktičnih problemov.

##### Prenesljive/ključne spretnosti in drugi atributi:

- uporaba standardov in tehniških predpisov pri reševanju inženirskih problemov.

#### Intended learning outcomes:

##### Knowledge and understanding:

- knowledge and use of standards and technical regulations;
- knowledge of procedures for quality assurance;
- knowledge of certification procedures.
- understanding of relationships between different skills and procedures and importance of usage of standards and technical regulations for efficient solutions of practical problems.

##### Transferable/Key Skills and other attributes:

- combined use of standards and technical regulations for solution of engineering problems.

#### Metode poučevanja in učenja:

- frontalna predavanja,
- izdelava seminarske naloge.

#### Teaching and learning methods:

- frontal lectures,
- seminar work.

#### Načini ocenjevanja:

Način (pisni izpit, ustno izpraševanje, naloge, projekt):

- opravljena seminarska naloga,
- ustni izpit.

Delež (v %) /  
Weight (in %)

50 %  
50 %

#### Assessment methods:

Type (examination, oral, coursework, project):

- completed seminar work,
- oral examination.