Course description

Department/Unit /	KGM / TNG			**Academic Year**	2023/2024
Title	Terms and Standards in Geoinformatics			**Type of completion**	Pre-Exam Credit
Accredited/Credits	Yes, 3 Cred.			**Type of completion**	Combined
Number of hours	Lecture 1 [Hours/Week] Tutorial 1 [Hours/Week]				
Occ/max	Status A	Status B	Status C	**Course credit prior to**	NO
Summer semester	8 / -	0 / -	0 / -	**Counted into average**	NO
Winter semester	0 / -	0 / -	0 / -	**Min. (B+C) students**	1
Timetable	Yes			**Repeated registration**	NO
Language of instruction	Czech			**Semester taught**	Summer semester
Optional course	Yes			**Internship duration**	0
Evaluation scale	S|N				
No. of hours of on-premise					
Auto acc. of credit	Yes in the case of a previous evaluation 4 nebo nic.				
Periodicity	K				
Substituted course	KMA/TNG				
Preclusive courses	N/A				
Prerequisite courses	N/A				
Informally recommended courses	N/A				
Courses depending on this Course	N/A				

Course objectives:

The aim of the subject is to acquaint the students with following topics: Principles of terminology standardization in geoinformatics. Terminology of ISO EN ČSN standards 19100 series. Special terminological dictionaries on the Internet. Standards in the field of digital data - organization OGC, OASIS, IEC, W3C and other. Problems of accessibility and usability of information technologies. Metadata and metainformation systems. Copyright and mental ownership.

Requirements on student

For getting a credit student has to process and successfully defend semestral project and fulfil the conditions of continuous and credit tests.

Content

1. Principles of standardization of terminology in geoinformatics.
2. Basic terms in Czech and English in ČSN EN ISO 19100 standards.
3. Wrong applications of special terms in geoinformatics.
4. Sources of synonyms in foreign languages.
5. Terminological dictionary of surveying mapping and cadastre on Internet.
6. Select standards in the branch of information technologies - OGC, OASIS, IEC,.W3C and others.
7. Problems of accessibility and applicability of information technologies.
8. Metadata and metainformation systems.
9. Respectability of author´s rights and mental ownership.
10. No toleration for illegaly gained geospatial data and software.

Fields of study

Guarantors and lecturers

- **Guarantors:** doc.Ing.Mgr. Otakar Čerba, Ph.D. (100%)
- **Lecturer:** doc.Ing.Mgr. Otakar Čerba, Ph.D. (100%), Ing. Tomáš Mildorf, Ph.D. (100%)
- **Tutorial lecturer:** doc.Ing.Mgr. Otakar Čerba, Ph.D. (100%), Ing. Tomáš Mildorf, Ph.D. (100%)

Literature

- **Basic:** Šíma, Jiří. *Geoinformační terminologie pro geodety a kartografy : výklad 200 základních termínů, anglické, německé a ruské ekvivalenty. Roč. 49, pub. č. 33*. Vyd. 1. Zdiby : Výzkumný ústav geodetický, topografický a kartografický, 2003. ISBN 80-85881-20-9.
- **Recommended:** Gomarasca, M. A. *Basics of geomatics (Vol. 53)*. New York, 2009.
- **Recommended:** *ISO EN ČSN řady 19100*.
- **Recommended:** Vybrané specifikace OGC - http://www.opengeospatial.org/ >

Time requirements

All forms of study

Activities	Time requirements for activity [h]
Contact hours	26
Preparation for an examination (30-60)	20
Preparation for comprehensive test (10-40)	10
Individual project (40)	26
Total:	**82**

assessment methods

Knowledge - knowledge achieved by taking this course are verified by the following means:

Oral exam

Test

Skills - skills achieved by taking this course are verified by the following means:

Project

Competences - competence achieved by taking this course are verified by the following means:

Test

Oral exam

Project

prerequisite

Knowledge - students are expected to possess the following knowledge before the course commences to finish it successfully:

základní termíny z geomatiky a příbuzných oborů

Skills - students are expected to possess the following skills before the course commences to finish it successfully:

studium odborné literatury, včetně standardů a norem

vyhledávání odborných zdrojů

Competences - students are expected to possess the following competences before the course commences to finish it successfully:

N/A

N/A

N/A

teaching methods

Knowledge - the following training methods are used to achieve the required knowledge:

Lecture

Skills - the following training methods are used to achieve the required skills:

Practicum

Competences - the following training methods are used to achieve the required competences:

Self-study of literature

learning outcomes

Knowledge - knowledge resulting from the course:

popsat vybrané standardy v oblasti geoinformačních technologií

popsat úpravu ochrany duševního vlastnictví

vysvětlit význam metadat a metadatových systémů

Skills - skills resulting from the course:

používat různé zdroje cizojazyčných ekvivalentů odborných pojmů

správně používat základní termíny z norem ČSN EN ISO řady 19100 v češtině a angličtině

Competences - competences resulting from the course:

N/A

N/A

Course is included in study programmes:

Study Programme	Type of	Form of	Branch	Stage	St. plan v.	Year	Block	Status	R.year	R.
Civil Engineering	Bachelor	Full-time	Land-use Planning	1	2017	2023	Povinné předměty	A	1	LS
Civil Engineering	Bachelor	Full-time	Land-use Planning	1	2020	2023	Povinné předměty	A	1	LS
Geomatics	Bachelor	Full-time	Geomatika	1	2022 akr	2023	Povinné předměty	A	1	LS
Geomatics	Bachelor	Full-time	Geomatika	1	2023	2023	Povinné předměty	A	1	LS
Geomatics	Bachelor	Full-time	Geomatics	1	2018	2023	Oborové předměty povinné	A	1	LS