Course description

Course abbreviation:	KME/ZDR Sanitary Engir	eering				Page:	1/3	
Academic Year:	2023/2024	looring			Printed:	08.07.2025	08:55	
Department/Unit /	KME / ZDR				Academic Year	2023/2024		
Title	Sanitary Engineering				Type of completion	Exam		
Accredited/Credits	Yes, 4 Cred.				Type of completion	Combined		
Number of hours	Lecture 2 [Ho	urs/Week] Tutor	rial 2 [Hours/Week]					
Occ/max	Status A	Status B	Status C		Course credit prior to	Yes		
Summer semester	10 / -	0 / -	0 / -		Counted into average	YES		
Winter semester	0 / -	0 / -	0 / -		Min. (B+C) students	10		
Timetable	Yes				Repeated registration	NO		
Language of instruction	Czech				Semester taught	Summer se	mester	
Optional course	Yes				Internship duration	0		
Evaluation scale	1 2 3 4				Ev. sc. – cred.	S N		
No. of hours of on-premise								
Auto acc. of credit	No							
Periodicity	every year							
Specification periodicity								
Substituted course	None							
Preclusive courses	N/A							
Prerequisite courses	N/A							
Informally recommended courses		N/A						
Courses depending on this Course		N/A						

Course objectives:

Students will acquaint with basic principles of designing, design and operation of plumbing systems within buildings.

Requirements on student

Requirements for credit: Develop and hand in a semester work of appropriate level. Credits from the subject KME/ZDR obtained in previous studies are not acknowledged

Requirements for examination: Active knowledge of problems presented in lectures and ability to apply it in solution of particular tasks.

Content

- 1. Public building services waste-water, water supply, gas-installation
- 2. Sanitary and storm water, materials
- 3. Sanitary and storm water, principles of piping
- 4. Designing and drawing of sanitary and storm water drainage systems
- 5. Solution of building sewers
- 6. Water supply systems, materials
- 7. Designing of water supply system, principles of piping installations
- 8. Designing and drawing of water supply system and equipment for fire-water supply
- 9. Solution of water services pipes
- 10. Gas installation for building, materials
- 11. Gas installation for building, principles of piping, gas appliances
- 12. Designing and drawing of gas installation for building
- 13. Solution of gas services pipes

Fields of study

Guarantors and lecturers

- Guarantors: doc. Ing. Jan Pašek, Ph.D.
- Lecturer: doc. Ing. Jan Pašek, Ph.D. (100%), Ing. Hana Staňková (100%)
- Tutorial lecturer: Ing. Hana Staňková (100%)

Literature

- Basic: Ing.M.Petrová, Ing.V.JelínekCSc. kol. *Technická zařízení budov*.
 Recommended: *Platné normy a předpisy*.
- Recommended. Future normy

Time requirements

All forms of study

Activities		Time requirements for activity [h]		
Undergraduate study programme te 40)	erm essay (20-	35		
Contact hours		52		
Preparation for an examination (30	-60)	30		
	Total:	117		

assessment methods

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

Combined exam

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

Combined exam

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

Combined exam

prerequisite

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

Dispose of knowledge structures.

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

Propose a simple building.

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

N/A

teaching methods

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

Lecture

Practicum

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

Lecture

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

Lecture

learning outcomes

Knowledge - knowledge resulting from the course:

Orientation in design technical equipment.

Skills - skills resulting from the course:

Apply the principles of technical equipment of buildings in buildings.

Competences - competences resulting from the course:

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.
Stavební inženýrství Pozemní stavby	Bachelor	Full-time	Stavební inženýrství - Pozemní stavby	1 2021 2023 akr	Povinné předměty	А	3	LS
Stavební inženýrství - Pozemní stavby	-Bachelor	Full-time	Stavební inženýrství - Pozemní stavby	1 2023 2023	Povinné předměty	А	3	LS
Civil Engineering	Bachelor	Full-time	Building Structures	1 2023 2023	Povinně volitelné předměty	В	2	LS
Civil Engineering	Bachelor	Full-time	Building Structures	1 2018 2023	Povinně volitelné předměty	В	2	LS
Civil Engineering	Bachelor	Full-time	Building Structures	1 2022 2023	Povinně volitelné předměty	В	2	LS