

Course description

Course abbreviation:	KME/ZDR	Page:	1 / 3
Course name:	Sanitary Engineering		
Academic Year:	2023/2024	Printed:	03.06.2024 08:36

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 [Hours/Week] Tutorial 2 [Hours/Week]			Course credit prior to	YES
Occ/max	Status A	Status B	Status C	Counted into average	YES
Summer semester	10 / -	0 / -	0 / -	Min. (B+C) students	10
Winter semester	0 / -	0 / -	0 / -	Repeated registration	NO
Timetable	Yes			Semester taught	Summer semester
Language of instruction	Czech			Internship duration	0
Optional course	Yes			Ev. sc. – cred.	S/N
Evaluation scale	1 2 3 4				
No. of hours of on-premise					
Auto acc. of credit	No				
Periodicity	K				
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.*

Time requirements

All forms of study

Activities	Time requirements for activity [h]
Undergraduate study programme term essay (20-40)	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 - Bachelor Pozemní stavby		Full-time	Stavební inženýrství - Pozemní stavby	1	2021 akr	2023	Povinné předměty	A	3	LS
Stavební inženýrství - Bachelor Pozemní stavby		Full-time	Stavební inženýrství - Pozemní stavby	1	2023	2023	Povinné předměty	A	3	LS
Civil Engineering	Bachelor	Full-time	Building Structures	1	2023	2023	Povinně volitelné předměty	B	2	LS
Civil Engineering	Bachelor	Full-time	Building Structures	1	2018	2023	Povinně volitelné předměty	B	2	LS
Civil Engineering	Bachelor	Full-time	Building Structures	1	2022	2023	Povinně volitelné předměty	B	2	LS