

# Course description

<b>Course abbreviation:</b>	KME/SZPMB	<b>Page:</b>	1 / 3
<b>Course name:</b>	SE Operation of Modern Buildings		
<b>Academic Year:</b>	2023/2024	<b>Printed:</b>	01.07.2025 00:41

<b>Department/Unit /</b>	KME / SZPMB			<b>Academic Year</b>	2023/2024
<b>Title</b>	SE Operation of Modern Buildings			<b>Type of completion</b>	State Final Exam
<b>Accredited/Credits</b>	Yes, 0 Cred.			<b>Type of completion</b>	
<b>Number of hours</b>					
<b>Occ/max</b>	Status A	Status B	Status C	<b>Course credit prior to</b>	No
<b>Summer semester</b>	10 / -	0 / -	0 / -	<b>Counted into average</b>	YES
<b>Winter semester</b>	0 / -	0 / -	0 / -	<b>Min. (B+C) students</b>	10
<b>Timetable</b>	Yes			<b>Repeated registration</b>	NO
<b>Language of instruction</b>	Czech			<b>Semester taught</b>	Winter, Summer
<b>Optional course</b>	Yes			<b>Internship duration</b>	0
<b>Evaluation scale</b>	1 2 3 4				
<b>No. of hours of on-premise</b>	0				
<b>Auto acc. of credit</b>	Yes in the case of a previous evaluation 4 nebo nic.				
<b>Periodicity</b>	every year				
<b>Specification periodicity</b>					
<b>Substituted course</b>	None				
<b>Preclusive courses</b>	N/A				
<b>Prerequisite courses</b>	N/A				
<b>Informally recommended courses</b>	N/A				
<b>Courses depending on this Course</b>	N/A				

## Course objectives:

The main objective of the State Exam in Operation of Modern Buildings is to verify that student

- successfully mastered knowledge in the field of building control systems, their relation to the purpose and character of the use of the building, and in the field of principles of optimization of building operational solutions,
- actively uses computational procedures and professional software for design and optimization of selected solutions,
- has the necessary professional skills, knowledge and competence from relevant expertise.

## Requirements on student

When assessing the state examination, the acquired competencies from relevant professional areas are assessed.

## Content

The State Exam in Operation of Modern Buildings is based mainly on study subjects:

- Facility management I
- Regulation, management and intelligence of buildings
- Communication technologies in facility management

## Fields of study

## Guarantors and lecturers

- **Guarantors:** doc. Ing. Jan Pašek, Ph.D.

## Literature

- **Basic:** ČSN EN 15221 Facility management. ÚNMZ, 2014.

- **Basic:** Somorová, V. *Facility management*. Bratislava, STU, 2013. ISBN 9788022738798.
- **Basic:** Garlík, B. *Intelligentní budovy*. BEN, 2012. ISBN 978-80-7300-440-8.
- **Recommended:** Teicholz, E. *Technology for Facility Managers: The Impact of Cutting-Edge Technology on Facility Management*. John Wiley and Sons, Inc., 2012. ISBN 978-1-118-41728-7.

#### assessment methods

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

Oral exam

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

Oral exam

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

Oral exam

#### prerequisite

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

Student must complete all prerequisites required by the study plan of the Civil Engineering - Modern Buildings study program and all conditions specified by the Study and Examination Regulations of the University of West Bohemia in Pilsen.

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

Student must complete all prerequisites required by the study plan of the Civil Engineering - Modern Buildings study program and all conditions specified by the Study and Examination Regulations of the University of West Bohemia in Pilsen.

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

N/A

N/A

#### teaching methods

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

Individual study

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

Individual study

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

Individual study

#### learning outcomes

**Knowledge - knowledge resulting from the course:**

By successfully completing the state final examination, the student has demonstrated that he has acquired sufficient knowledge in the course of his studies in accordance with the requirements of the study program Civil Engineering - Modern Buildings, specialization Design and Construction of Buildings, or specialization Management and Controlling of Buildings Operation.

**Skills - skills resulting from the course:**

By successfully completing the state final examination, the student has demonstrated that he has acquired sufficient skills in the course of his studies in accordance with the requirements of the study program Civil Engineering - Modern Buildings, specialization Design and Construction of Buildings, or specialization Management and Controlling of Buildings Operation.

**Competences - competences resulting from the course:**

N/A

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.
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Study Programme	Type of	Form of	Branch	Stage	St. plan	v. Year	Block	Status	R.year	R.
Civil Engineering	Postgraduate Master	Full-time	Navrhování a provádění budov	1	2020	2023	Státnicové předměty a obhajoba diplomové práce	A	2	LS
Civil Engineering	Postgraduate Master	Full-time	Správa a řízení provozu budov	1	2020	2023	Státnicové předměty a obhajoba diplomové práce	A	2	LS