

Information on the specializations

Introduced in academic year 2022/2023 at the Faculty of Architecture in 7–10 semesters of the Integrated Master Program in English

1. Background

On 25.04.2022, the BME Senate decided, based on the proposal of the Faculty of Architecture on the introduction of new specialization curriculum units of the BME Faculty of Architecture Integrated MSc Program in 2022/2023. The purpose of the decision was to restructure and increase the specialization offer – specializations, subjects – and for the lecturers and departments to respond to the external demands and their own scientific and research results to offer curricular units that provide connected knowledge. The faculty has taken the current steps after several years of analysis, consultation, and debate, and expects from the renewal that the specializations will better cover external professional and internal student needs.

The faculty has launched seven specializations, **three** of which will start in English from academic year 2024/2025.

The new specialization curriculum units are introduced for the 7th semester students starting in 2019 and after.

Sustainable Architecture Specialization

Sustainability, meant in a broad sense is a key issue of contemporary architectural thinking worldwide. So, the Faculty of Architecture decided that the newly introduced academic program of four semesters of study will focus on this topic through subjects offered in an obligatory elective way, giving a bigger freedom in selection according to students' interest at the same time.

Academic Head of the Specialization: Dr. NEMES, Gábor associate professor nemes.gabor@epk.bme.hu

Real-Estate Development Specialization

Concept: introduce the Real Estate industry as a whole. It is an interdisciplinary subject in the triangle of engineering, economics, and law. Courses are built up to the Real Estate cycle which leads from the development idea to the operation. Courses cover the RE market, RE finance, agency and other related issues. The facility management, as key discipline will get a special attention. New trends, as IT and AI in RE also will be discussed.

Responsible person of specialization at the Department of Construction Technology and Management: Dr. MÁLYUSZ, Levente malyusz.levente@epk.bme.hu

Urban Design Specialization – <https://urb.bme.hu/en/varos-epiteszet-specializacio-24/>

The specialization has the goal of giving enrolling students insight and professional skills connected to urban design, urban planning and corresponding other fields of urban activities. The complex program integrates Hungarian and international experiences and is based on the highly competent and diverse background of the Department.

Responsible person of the specialization at the Department of Urban Planning and Design: Dr. SZABÓ, Árpád szabo.arpad@urb.bme.hu

2. Curriculum of the specializations in the Integrated MSc Program:

See the corresponding documents on the websites: [Curriculum](#)

[Curriculum and Prerequisite system](#)

3. Typology of subjects

3.1. Obligatory subjects for all specializations

- Construction Management 2 - Building Project Management
- Colour Dynamics (Drawing 7)
- Industrialized Building Constructions (BC 6)
- Preservation of Historical Monuments
- Construction Law
- Building and Architectural Economics

3.2. Obligatory elective subjects for all specializations

- Obligatory elective subjects from the Faculty of Economic and Social Sciences or Faculty of Civil Engineering (One subject is obligatory)
Economics II. / Logic and Argumentation / Technology and Society
- Technical obligatory elective subjects (Two subjects from the group are obligatory)
Real-Estate Development / Design of Reinforced Concrete Structures / Facility Management / Mathematics EP3

3.3. Design subjects

7. semester: Specialization Complementary Course + Specialized Project to be selected together at the same department

Specialized Project (BMEEPxxQ711 – 6 Cr) – Possible to choose on these departments:

- Explorative Architecture – https://epitesz.bme.hu/files/doc/en/2024/Specializacio/X_spec_eng_2024-2025-1.pdf
- History of Architecture and Monument Preservation – https://epitesz.bme.hu/file/ET_STT_promo2024.pdf
- Public Building Design – https://epitesz.bme.hu/files/doc/en/2024/Specializacio/KO_spec_eng_2024.pdf
- Residential Building Design – <https://stt-lako.blogspot.com/>
- Urban Planning and Design – <https://urb.bme.hu/en/en-eng-department-design-hidden-opportunities-of-the-urban-roofscape/>

How to apply:

To apply for the **Specialized Project**, students must enter the chosen departments in the order of their choice in the link below. Departments decide on admission depending on the number of applicants. [Specialized project BMEEPxxQ711 - Google Úrlapok](#)

Specialization Complementary Course (BMEPExxQ712 – 4 Cr) is possible on the same department as the Specialized project.

For students of **Real Estate Development Specialization** is obligatory to take BMEEPEKQ712 **Specialization Complementary Course**, for students of **Urban Design Specialization** is obligatory to take the BMEEPUIQ711 and BMEEPUIQ712 courses.

8-9. semester: **Comprehensive Design 1-2**, to be selected from departments offering the subjects.

For students of **Real Estate Development Specialization** is obligatory to take BMEEPEKQ811, for students of **Urban Design Specialization** the BMEEPUIQ811.

9. semester: **Diploma Preparatory Specialization Course (BMEEP__Q901)**, to be selected at the department, where student is planning to do Diploma Project

For students of **Real Estate Development Specialization** is obligatory to take BMEEPEKQ901, for students of **Urban Design Specialization** the BMEEPUIQ901.

10. semester: **Diploma Project**, to be selected freely from departments offering the subject

For students of **Real Estate Development Specialization** is obligatory to take BMEEPEKQD01, for students of **Urban Design Specialization** BMEEPUIQD01.

It is possible to change departments between different semesters, this matter must be discussed with the departments. (Between the two Comprehensive Design semester is not possible to change.)

3.4. Global exams

A significant change is in the order of the global exams. In the new program, instead of the previous system, 5 + 1 global exams will be mandatory for all students (Strength of Materials, Design, History of Architecture, Building Construction, Construction Technology and Management + Specialized). The final global exam requirements of the old Bulletin will only be mandatory for students graduating in 2023. The two systems cannot be combined, i.e., according to either the old Bulletin or the new Curriculum, the full range of requirements and subjects must be completed.

In every specialization one **specialized global exam** is obligatory:

Sustainable Architecture Specialization: Architectural Global Exam

Real Estate Development Specialization: Real-Estate Development – Global Exam

Urban Design Specialization: Urban Design Global Exam

3.5. Elective subjects

Students can select them freely from subjects offered by the University.

Obligatory elective subjects from the Curriculum can be counted as electives, if they are not fulfilled as obligatory electives. (Exceptions are Department's Design, Specialized Project, Specialization Complementary Course, and Comprehensive Design.)

And the obligatory or obligatory elective subjects of a specialization, can be fulfilled as **elective on the other specializations**.

3.6. Specialization subjects

3.6.1. Obligatory elective subjects in the **Sustainable Architecture Specialization**

Students are obliged to fulfil eight subjects from the offered list of subjects, according to their selection.

https://epitesz.bme.hu/files/doc/en/2024/Sustainablespecialization/oblelectivecourses_2024.06.pdf

Special Construction Technologies BMEEPEKQ903

History of Architecture in Hungary BMEEPETQ703

Contemporary City: Urban Form and Space Usage BMEEPUIQ701

Sustainable Conceptual Design of Structures BMEEPSTQ702

Craft/Shop – Experimental Object-making BMEEPKOQ701

Rehabilitation of Building Constructions (Building Constructions 9.) BMEEPESQ902

Constructive CAAD CE BMEEPAG0249

Praxis – Architectural Strategies BMEEPIPQ703

Competitions and a Conscious Practice BMEEPLAQ803

Visual Communication BMEEPRAQ801

3.6.2. Obligatory and obligatory elective subjects in the Real Estate Development Specialization

http://www.ekt.bme.hu/CArchSubj_en.shtml

3.6.3. Obligatory and obligatory elective subjects in the Urban Design Specialization

See in the booklet: https://urb.bme.hu/wp-content/uploads/2024/05/SPEC_booklet_2024_ENG_OK.pdf

4. Eligibility, pre-requisites

Students can enter the specialization if following pre-requisites are met:

- 5.1. Having at least six accomplished active semesters.
- 5.2. Having at least 150 credits out of the 180 credits of the first six semesters.
- 5.3. Accomplished all the obligatory subjects of the first four semesters.
- 5.4. Having at least two of the following globals: Global in Strength of Materials, Global in Building Constructions, Global in Design, History of Architecture Global (basic).