



## **Appendix to the Study Regulations for the Master of Science in Real Estate & Facility Management**

### **at the School of Life Sciences and Facility Management, Zurich University of Applied Sciences (ZHAW)**

Based on §2 of the General Academic Regulations for Bachelor's and Master's degree programmes of the Zurich University of Applied Sciences (ZHAW) of 29 January 2008, supplementing the Study Regulations for the Master's Programme in Real Estate & Facility Management of the School of Life Sciences & Facility Management of 05 May 2021, the following appendix to the Study Regulations was first enacted by the executive board on 30.08.2011.

#### Disclaimer

This is a non-binding, unofficial translation of the original German version, "[Anhang zur Studienordnung für den Masterstudiengang Master of Science in Real Estate & Facility Management \(REFM\) der Zürcher Hochschule für Angewandte Wissenschaften des Departement Life Sciences und Facility Management](#)". While it was prepared with all due care, the ZHAW School of Management and Law takes no responsibility for any remaining omissions and/or errors. The legally binding document is the original German version, which shall prevail in any case of doubt or differences of interpretation.

Please note that English is not an official language of the Swiss Confederation or the Canton of Zurich. This document is provided for information purposes only and has no legal force.

## **1. Admission process**

The admission process includes both an assessment of whether the candidate satisfies the general admission requirements and an entrance exam.

### **1.1 General admission requirements**

The application documents are assessed to determine whether they meet the formal requirements outlined in § 7 of the study regulations.

According to § 7 of the study regulations, the following subject areas are considered to be subject-related:

- Industrial/civil engineering
- Building technology
- Architecture
- Environmental sciences
- Hospitality Management / Tourism

The head of the degree programme decides on the equivalence of other degrees.

### **1.2 Entrance exam**

The entrance exam involves an interview with experts from the Institute of Facility Management and/or the Department of Banking, Finance, Insurance. The following skills are assessed:

- i. Expertise (Finance and Accounting, Facility Management, Building-Related Fundamentals or Real Estate Management, Personnel-Related Fundamentals or Human Resources, Statistics).
- ii. Management competences (management experience).
- iii. Social skills (for example, communication; personnel management).
- iv. Language skills in English and German.

If the submitted documents show that any or all of the competences mentioned above are sufficient for entry to the programme, these competences will not be further assessed.

In addition, a letter of motivation and curriculum vitae must also be submitted.

The entrance exam, which is based on the above-listed competence areas (i.– iv.), is assessed as "pass" or "fail," and the applicant is informed in writing about the result as well as any additional qualifications that may be required.

## 2. Organisation of the Master's degree in Real Estate & Facility Management

The degree is offered as a four-semester or a six-semester programme.

### 2.1 The four-semester programme is organised as follows:

#### 2.1.1 1st Semester

| Module category     | Module                             | Module type | Credits | Assessment |
|---------------------|------------------------------------|-------------|---------|------------|
| Economics & Finance | Real Estate Markets                | compulsory  | 5       | Grade      |
| Economics & Finance | Sustainable Finance and Governance | compulsory  | 5       | Grade      |
| Workplace & Service | Service Strategy and Innovation    | compulsory  | 5       | Grade      |
| Workplace & Service | Workplace Strategy and Innovation  | compulsory  | 5       | Grade      |
| Applied Research    | Applied Research Methods           | compulsory  | 5       | Grade      |

#### 2.1.2 2nd Semester

| Module category                 | Module                                | Module type | Credits | Assessment |
|---------------------------------|---------------------------------------|-------------|---------|------------|
| Digitalisation & Sustainability | Digital Transformation                | compulsory  | 5       | Grade      |
| Management                      | Public and Corporate Real Estate      | compulsory  | 5       | Grade      |
| Applied Research                | Real Estate Modelling and Forecasting | compulsory  | 5       | Grade      |
| Applied Research                | Research Lab <sup>oS</sup>            | compulsory  | 5       | Pass/Fail  |

#### Digitalisation & Sustainability Specialisation

| Module category                 | Module                                   | Module type | Credits | Assessment |
|---------------------------------|--|-------------|---------|------------|
| Digitalisation & Sustainability | PropTech Innovation and Entrepreneurship | compulsory  | 5       | Grade      |

#### Economics & Finance Specialisation

| Module category     | Module                             | Module type | Credits | Assessment |
|---------------------|------------------------------------|-------------|---------|------------|
| Economics & Finance | Real Estate Investment and Finance | compulsory  | 5       | Grade      |

**Strategic Real Estate & Facility Management Specialisation**

| Module category                 | Module  | Module type | Credits | Assessment |
|---------------------------------|---|-------------|---------|------------|
| Digitalisation & Sustainability | PropTech Innovation and Entrepreneurship <sup>1</sup> | elective    | 5       | Grade      |
| Economics & Finance             | Real Estate Investment and Finance <sup>1</sup>       | elective    | 5       | Grade      |

<sup>1</sup> One of the two elective modules must be chosen.

**2.1.3 3rd Semester**

| Module category                 | Module                                 | Module type | Credits | Assessment |
|---------------------------------|--|-------------|---------|------------|
| Digitalisation & Sustainability | Strategies in Sustainability           | compulsory  | 5       | Grade      |
| Management                      | Processes, Engineering and Procurement | compulsory  | 5       | Grade      |

**Digitalisation & Sustainability Specialisation**

| Module category                 | Module                      | Module type | Credits | Assessment |
|---------------------------------|-----------------------------|-------------|---------|------------|
| Digitalisation & Sustainability | Circular Economy Management | compulsory  | 5       | Grade      |
| Applied Research                | Research Plan <sup>oS</sup> | compulsory  | 5       | Pass/Fail  |

**Economics & Finance Specialisation**

| Module category     | Module                      | Module type | Credits | Assessment |
|---------------------|-----------------------------|-------------|---------|------------|
| Economics & Finance | Real Estate Valuation       | compulsory  | 5       | Grade      |
| Applied Research    | Research Plan <sup>oS</sup> | compulsory  | 5       | Pass/Fail  |

**Strategic Real Estate & Facility Management Specialisation**

| Module category                 | Module                                   | Module type | Credits | Assessment |
|---------------------------------|--|-------------|---------|------------|
| Digitalisation & Sustainability | Circular Economy Management <sup>2</sup> | elective    | 5       | Grade      |
| Economics & Finance             | Real Estate Valuation <sup>2</sup>       | elective    | 5       | Grade      |
| Applied Research                | Research Plan <sup>oS</sup>              | compulsory  | 5       | Pass/Fail  |

<sup>2</sup> One of the two elective modules must be chosen.

**2.1.4 4th Semester**

| Module category | Module                        | Module type | Credits | Assessment |
|-----------------|-------------------------------|-------------|---------|------------|
| Management      | Leadership, Ethics,<br>Change | compulsory  | 5       | Pass/Fail  |

**Digitalisation & Sustainability Specialisation**

| Module category                    | Module                              | Module type | Credits | Assessment |
|------------------------------------|-------------------------------------|-------------|---------|------------|
| Digitalisation &<br>Sustainability | Built Environment<br>Transformation | compulsory  | 5       | Grade      |
| Applied Research                   | Master's Thesis <sup>oS</sup>       | compulsory  | 10      | Grade      |

**Economics & Finance Specialisation**

| Module category     | Module                        | Module type | Credits | Assessment |
|---------------------|-------------------------------|-------------|---------|------------|
| Economics & Finance | Real Estate Development       | compulsory  | 5       | Grade      |
| Applied Research    | Master's Thesis <sup>oS</sup> | compulsory  | 10      | Grade      |

**Strategic Real Estate & Facility Management Specialisation**

| Module category                    | Module   | Module type | Credits | Assessment |
|------------------------------------|--|-------------|---------|------------|
| Digitalisation &<br>Sustainability | Built Environment<br>Transformation <sup>3</sup> | elective    | 5       | Grade      |
| Economics & Finance                | Real Estate<br>Development <sup>3</sup>          | elective    | 5       | Grade      |
| Applied Research                   | Master's Thesis <sup>oS</sup>                    | compulsory  | 10      | Grade      |

<sup>3</sup> One of the two elective modules must be chosen.

## 2.2 The six-semester programme is organised as follows:

### 2.2.1 1st Semester

| Module category     | Module                          | Module type | Credits | Assessment |
|---------------------|---------------------------------|-------------|---------|------------|
| Economics & Finance | Real Estate Markets             | compulsory  | 5       | Grade      |
| Workplace & Service | Service Strategy and Innovation | compulsory  | 5       | Grade      |
| Applied Research    | Applied Research Methods        | compulsory  | 5       | Grade      |

### 2.2.2 2nd Semester

| Module category  | Module                                | Module type | Credits | Assessment |
|------------------|---------------------------------------|-------------|---------|------------|
| Management       | Public and Corporate Real Estate      | compulsory  | 5       | Grade      |
| Applied Research | Real Estate Modelling and Forecasting | compulsory  | 5       | Grade      |

### 2.2.3 3rd Semester

| Module category     | Module                                 | Module type | Credits | Assessment |
|---------------------|--|-------------|---------|------------|
| Economics & Finance | Sustainable Finance and Governance     | compulsory  | 5       | Grade      |
| Workplace & Service | Workplace Strategy and Innovation      | compulsory  | 5       | Grade      |
| Management          | Processes, Engineering and Procurement | compulsory  | 5       | Grade      |

### 2.2.4 4th Semester

| Module category                 | Module                     | Module type | Credits | Assessment |
|---------------------------------|----------------------------|-------------|---------|------------|
| Digitalisation & Sustainability | Digital Transformation     | compulsory  | 5       | Grade      |
| Applied Research                | Research Lab <sup>oS</sup> | compulsory  | 5       | Pass/Fail  |

#### Digitalisation & Sustainability Specialisation

| Module category                 | Module                                   | Module type | Credits | Assessment |
|---------------------------------|--|-------------|---------|------------|
| Digitalisation & Sustainability | PropTech Innovation and Entrepreneurship | compulsory  | 5       | Grade      |

**Economics & Finance Specialisation**

| Module category     | Module                             | Module type | Credits | Assessment |
|---------------------|------------------------------------|-------------|---------|------------|
| Economics & Finance | Real Estate Investment and Finance | compulsory  | 5       | Grade      |

**Strategic Real Estate & Facility Management Specialisation**

| Module category                 | Module  | Module type | Credits | Assessment |
|---------------------------------|---|-------------|---------|------------|
| Digitalisation & Sustainability | PropTech Innovation and Entrepreneurship <sup>4</sup> | elective    | 5       | Grade      |
| Economics & Finance             | Real Estate Investment and Finance <sup>4</sup>       | elective    | 5       | Grade      |

<sup>4</sup> One of the two elective modules must be chosen.

**2.2.5 5th Semester**

| Module category                 | Module                       | Module type | Credits | Assessment |
|---------------------------------|------------------------------|-------------|---------|------------|
| Digitalisation & Sustainability | Strategies in Sustainability | compulsory  | 5       | Grade      |

**Digitalisation & Sustainability Specialisation**

| Module category                 | Module                      | Module type | Credits | Assessment |
|---------------------------------|-----------------------------|-------------|---------|------------|
| Digitalisation & Sustainability | Circular Economy Management | compulsory  | 5       | Grade      |
| Applied Research                | Research Plan <sup>oS</sup> | compulsory  | 5       | Pass/Fail  |

**Economics & Finance Specialisation**

| Module category     | Module                      | Module type | Credits | Assessment |
|---------------------|-----------------------------|-------------|---------|------------|
| Economics & Finance | Real Estate Valuation       | compulsory  | 5       | Grade      |
| Applied Research    | Research Plan <sup>oS</sup> | compulsory  | 5       | Pass/Fail  |

**Strategic Real Estate & Facility Management Specialisation**

| Module category                 | Module                                   | Module type | Credits | Assessment |
|---------------------------------|--|-------------|---------|------------|
| Digitalisation & Sustainability | Circular Economy Management <sup>5</sup> | elective    | 5       | Grade      |
| Economics & Finance             | Real Estate Valuation <sup>5</sup>       | elective    | 5       | Grade      |
| Applied Research                | Research Plan <sup>oS</sup>              | compulsory  | 5       | Pass/Fail  |

<sup>5</sup> One of the two elective modules must be chosen.

### 2.2.6 6th Semester

| Module category | Module                     | Module type | Credits | Assessment |
|-----------------|----------------------------|-------------|---------|------------|
| Management      | Leadership, Ethics, Change | compulsory  | 5       | Pass/Fail  |

#### Digitalisation & Sustainability Specialisation

| Module category                 | Module                           | Module type | Credits | Assessment |
|---------------------------------|----------------------------------|-------------|---------|------------|
| Digitalisation & Sustainability | Built Environment Transformation | compulsory  | 5       | Grade      |
| Applied Research                | Master's Thesis <sup>oS</sup>    | compulsory  | 10      | Grade      |

#### Economics & Finance Specialisation

| Module category     | Module                        | Module type | Credits | Assessment |
|---------------------|-------------------------------|-------------|---------|------------|
| Economics & Finance | Real Estate Development       | compulsory  | 5       | Grade      |
| Applied Research    | Master's Thesis <sup>oS</sup> | compulsory  | 10      | Grade      |

#### Strategic Real Estate & Facility Management Specialisation

| Module category                 | Module  | Module type | Credits | Assessment |
|---------------------------------|---|-------------|---------|------------|
| Digitalisation & Sustainability | Built Environment Transformation <sup>6</sup> | elective    | 5       | Grade      |
| Economics & Finance             | Real Estate Development <sup>6</sup>          | elective    | 5       | Grade      |
| Applied Research                | Master's Thesis <sup>oS</sup>                 | compulsory  | 10      | Grade      |

<sup>6</sup> One of the two elective modules must be chosen.

### 2.3 Optional modules

| Programme  | Module                                       | Semester | Credits | Assessment |
|------------|--|----------|---------|------------|
| 4-Semester | Intercultural Competence<br><sup>oS, 7</sup> | 2. – 3.  | 2       | Pass/Fail  |
| 6-Semester | Intercultural Competence<br><sup>oS, 7</sup> | 3. – 5.  | 2       | Pass/Fail  |

<sup>7</sup> The module is run over two consecutive semesters.

### 3. Modules outside the study semester

For the modules marked with "oS" (out of semester), assignments or courses may take place both during and outside of the normal semester period. The deadlines will be communicated by the head of the degree programme.





#### **4. Choosing your specialisation**

The specialisation is chosen after the end of the first semester. The degree must be completed with a specialisation.

#### **5. Modulbelegung**

On request, the head of the degree programme may permit students who are enrolled in the four-semester programme to complete individual modules in a later semester than they are scheduled, provided a study duration of 6 semesters is not exceeded.

On request, the head of the degree programme may permit students who are enrolled in the six-semester programme to complete individual modules in a later semester than they are scheduled, provided a study duration of 8 semesters is not exceeded.

#### **6. Master's Thesis and Research Plan**

The Master's thesis can be started in the 3rd semester of the four-semester degree programme and in the 5th semester of the six-semester degree programme.

#### **7. Official Title**

The official title of the degree programme is: Master of Science ZHAW in Real Estate & Facility Management with Specialisation in

- – Digitalisation & Sustainability
- – Economics & Finance
- – Strategic Real Estate & Facility Management.

#### **8. Conditions for the transitional period from 24.9.2021**

Students who commenced their studies before the autumn semester 2022/2023 and have not completed their studies by the end of the autumn semester 2022/2023 will continue their studies in accordance with the Appendix dated 24.9.2021.

## 9. Issuing information

### 9.1 Issuing metadata

|                  |                                |
|------------------|--------------------------------|
| Issued by        | LeiterIn Studium Departement N |
| Decided by       | HSL                            |
| Classification   | 1.04.01 Führungsgrundlagen     |
| Publication type | Public                         |

### 9.2 Issuing process

| Version | Decision   | Decided by | Validity   | Description of Change   |
|---------|------------|------------|------------|---|
| 1.0.0   | 30.08.2011 | HSL        | 30.08.2011 | Original version  |
| 1.1.0   | 29.04.2014 | HSL        | 29.04.2014 | Adjustments   |
| 2.0.0   | 14.04.2015 | HSL        | 01.08.2015 | Adjustments   |
| 2.0.1   | -          | -          | -          | Revision of layout and table presentation, 22.01.2019   |
| 3.0.0   | 24.09.2021 | HSL        | 01.11.2021 | Revision of the curriculum<br>Renaming of the degree programme (formerly Master of Science in Facility Management)                              |
| 3.0.1   | -          | -          | -          | Editorial adjustment, 12.10.2021  |
| 3.0.2   | -          | -          | -          | Adjustment of the presentation of elective modules, 1.11.2021   |
| 3.0.3   | -          | -          | -          | Editorial adjustment, 12.10.2021  |
| 3.0.4   | -          | -          | -          | Link to English Version, 23.08.2022   |
| 3.0.5   | -          | -          | -          | Editorial adjustment as of 1.1.2023 due to dissolution of UAS Zurich University of Applied Sciences. The title will now be awarded by the ZHAW. |