

Conditions for admission for the study **in university degree programmes at VŠB - Technical University of Ostrava** **for the academic year 2018/2019 - follow-up Master study**

For the following study programmes/fields of study:

- follow-up Master degree programme **Mechatronics** with the field of study Mechatronic Systems in the full-time and combined form of study, the candidates are admitted for the field of study,
- follow-up Master degree programme Technology of **Processes in Energetics** with the field of study Technology of Processes in Energetics in the full-time form of study, the candidates are admitted for the field of study,

The general conditions for admission follow from Section 48 to Section 50 of the Act 111/1998 Coll., on Higher Education Institutions and on the amendment and supplementation of other acts (Higher Education Act), as subsequently amended (hereinafter referred to as the “Act”), which are further specified in the Admission Procedure Rules of VŠB-Technical University of Ostrava (hereinafter referred to as “VŠB TUO”).

The condition for admission in a follow-up Master degree programme (field of study) is to complete the Bachelor or Master study in the Czech Republic or abroad and the successful completion of the admission procedure.

Follow-up Master study

1. The characteristics of the system of studies

Candidates who have completed at least a Bachelor degree programme can apply for the study in Master degree programmes. The standard length of the follow-up Master study is 2 years. After completing the Master degree programme, the graduate acquires the degree “Master” (abbreviated as Ing.).

Follow-up Master degree programme **Mechatronics** with the field of study Mechatronic Systems is accredited in the full-time and combined form of study in Czech and English. The study is intended for graduates of Bachelor degree programmes at technical university faculties, especially for graduates of Bachelor degree programmes at faculties of mechanical engineering, electrical engineering, technology, applied sciences, mechatronics, etc.

Follow-up Master degree programme **Technology of Processes in Energetics** with the field of study Technology of Processes in Energetics accredited in the full-time form of study in Czech and English. The study is intended for graduates of the Bachelor study focused on technology and natural sciences; especially focused on Mechanical Engineering and Chemistry and in the fields of study focused on energetics, environmental engineering, technology, applied sciences, physics, and chemistry.

2. The application for the study

- The application has to be submitted electronically (electronic application), it is available on the website of VŠB - TU Ostrava (www.vsb.cz), then printed **and sent to the address:**

VŠB - Technical University of Ostrava
Fakulta strojní
Studijní oddělení
17. listopadu 15
708 33 Ostrava – Poruba

It is necessary to demonstrate a certified copy of the Bc. diploma to the application for the Bachelor study (if the diploma is from other university than VŠB - Technical University of Ostrava). **Candidates who have completed the Bachelor study at a foreign university will demonstrate a certified copy of the achieved education (it does not apply to the Slovak Republic).**

A medical certificate of health for studying and for the practice of the profession is not required.

If the application has formal shortcomings, the candidate will be asked to make the corrections and additions. The admission procedure will not be initiated if the candidate does not remove the shortcomings in the application within a time limit which shall be established.

The deadline for submission of the applications is **30 April. 2018** (the 1st round of the admission procedure).

In the event that the number of the admitted students are not filled in the first round of the admission procedure, the second round of the admission procedure will be opened in fields of study.

The deadline for submission of the applications is **15 August 2018** (the 2nd round of the admission procedure).

Open Day will take place on: 2 November 2018

- There is a fee for the operations associated with the admission procedure amounting to **CZK 500.00**.

The fee shall be paid to the account:

- The account number: 100954151/0300
 - Variable symbol: generated on the electronic application
 - Constant symbol: 0308
 - The account name: VŠB-TU Ostrava, 17. listopadu 15, 708 33 Ostrava - Poruba
 - IBAN: CZ51 0300 0000 0001 0095 4151
- The fee for the study in a foreign language

The fee for the study in the follow-up Master degree programme (field of study) in a foreign language for each academic year amounts to **EUR 4,000.00**.

3. Entrance examination

The essence of the admission procedure is an overall assessment of the preconditions of the candidate for the study of the selected degree programme (field of study) at VŠB - Technical University of Ostrava.

Part of the entrance procedure is:

- evaluation of the Bachelor study
- entrance examination, which is written;
- verification of the ability of the candidate to study in the language of the degree programme.

3.2 The invitation for the entrance examination

The candidate is invited for the entrance examination in writing by a letter dispatched to the address indicated in the application for the study. In the case of remission of entrance examination, the candidate shall be informed about this fact together with the next steps of the admission procedure.

3.3 Written entrance examination

Upon arrival to the entrance test, the candidate shall demonstrate his/her identity to the authorised personnel of the university.

During the test, it is forbidden to use mobile phones, computers, connection to the Internet and other communication technologies.

Degree programme Mechatronics, field of study Mechatronic Systems

The entrance examination for the degree program Mechatronics is written and it is aimed at verifying the candidate's knowledge at the level of Bachelor degree programmes of three basic modules - mechanical engineering module, electrical engineering module, and module of automation and control technology, which forms the basis of the degree programme Mechatronics.

The basic characteristics of the modules:

- **Mechanical Engineering Module**
Solid mechanics, fundamentals of fluid mechanics and thermodynamics, machine parts and mechanisms, Manufacturing Technology, CAD systems
- **Electrical engineering module**
Electrical circuits, electrical measurements, electronics, electric drives, digital and microcomputer technology.
- **Automation and control technology module**
Fundamentals of automation - logic control, control circuits, automatic control, sensor technology, control systems, mechatronic systems

The written exam consists of three parts, whose content focused on the said modules, the individual parts form 2 examples, or an example and a written answer to a specialized question.

The written exam is evaluated by 0 to 120 points.

The duration of the written test is 90 minutes:

The permitted aids: calculators, writing utensils.

Degree programme Technology of Processes in Energetics, field of study Technology of Processes in Energetics

The entrance exam is written and it is aimed at verifying the candidate's knowledge at the level of Bachelor degree programmes of two basic modules - mechanical engineering module, chemistry module, which forms the basis of the degree programme Technology of Processes in Energetics

The basic characteristics of the modules:

- **Mechanical Engineering Module**
Solid mechanics, fundamentals of fluid mechanics and thermomechanics, machine parts and mechanisms, manufacturing technology
- **Chemistry module**
Composition of systems (solutions, the amount of substance concentration), chemical equations (their registration and stoichiometric calculations), chemical equilibrium (equilibrium constant) thermochemistry (heat of reaction), electrolytic dissociation (acids and bases, pH).

The written exam consists of two parts, whose content is focused on the said modules, the individual parts form 2 examples, or an example and a written answer to a specialized question.

The written exam is evaluated by 0 to 120 points.

The duration of the written test is 90 minutes:

The permitted aids: calculators, writing utensils.

3.4 Remission of the written entrance examination

Degree programme Mechatronics

The written entrance examination for the follow-up Master degree programme Mechatronics can be remitted in the following cases:

- the candidate has successfully completed the study in the Bachelor degree program Mechatronics at VŠB - Technical University of Ostrava and achieved the study average for the entire study of at least 70 points.
- the applicant has successfully completed the study in a related Bachelor degree programme at technical university faculties. These are mainly graduates of Bachelor degree programmes at faculties of mechanical engineering, electrical engineering, technology, applied sciences, mechatronics, etc. At the same time, the candidate achieved an average grade 2.5 for the subjects corresponding to the individual

modules of the entrance examination (mechanical engineering module, electrical and automation and control technology modules) - at least one subject for each module.

Degree programme Technology of Processes in Energetics

The written entrance examination for the follow-up Master degree programme Technology of Processes in Energetics can be remitted in the following cases:

- the applicant has successfully completed the study in a related Bachelor degree programme at technical university faculties, and at the same time s/he achieved an average grade of 2.5.

3.5 Verification of the ability of the candidate to study in the language of the degree programme.

Only a candidate who demonstrates the ability to study in the language of instruction of the degree programme (Czech and English) can be admitted for the study. Particularly the school-leaving examination in Czech language or the Slovak language is considered the proof of the ability to study in the Czech language. The Vice-Rector of VŠB - TU Ostrava in charge may recognize an official document of the examination in the relevant language in the state-recognized (accredited) educational facility as a proof of ability to study in the appropriate language. In other cases (English language), the ability to study in the language of the degree programmes is demonstrated by the examination in the relevant language within the previous education. In special cases, the Vice-Rector of VŠB - TU Ostrava in charge may remit this exam in the case of the candidate.

3.6 Assessment of excuses for the absence at the entrance examination

The candidate has to apologize for his/her absence at the entrance examination in writing within 5 days before the date of the entrance examination at the latest. The Vice-Rector of VŠB - TU Ostrava in charge makes decisions concerning excuses for the absence.

3.7 Peeking into the materials decisive for admission

The candidates may, in accordance with Section 50 Subsection 5 of the Act peek into their materials that have a bearing on their admission. Peeking into the materials will be allowed on the day of the entrance examination, and after completion of the written entrance examination and its evaluation. The candidates will be notified on the time and place before the start of the written part of the entrance examination.

3.8 Preliminary date of the entrance examination

21 June 2018 (the 1st round of the admission procedure).

23 August 2018 (the 2nd round of the admission procedure).

4. Deciding on admission to the study

4.1 Procedure when deciding on admission to the follow-up Master study

When deciding on admission for the study in the follow-up Master field of study, the candidates are ranked according to the achieved number of points.

If there are more candidates who achieved the same point ranking as the last admitted candidate satisfying the specified highest number of admitted candidates, all candidates with that ranking will be admitted.

4.2 Notification of the candidates of the admission procedure results

The candidate is notified of the admission procedure results in writing within 30 days from the date of the entrance examination.

4.3 The highest number of admitted students

a) Programme Mechatronics

Full-time follow-up Master study - study in Czech	30 students
Full-time follow-up Master study - study in English	20 students
Full-time combined Master study - study in Czech	20 students

b) Programme Technology of Processes in Energetics, field of study Technology of Processes in Energetics

Full-time follow-up Master study - study in Czech	40 students
Full-time follow-up Master study - study in English	20 students

5. Related documents

Statute of VŠB - Technical University of Ostrava
Study and Examination Regulations for follow-up Master degree programmes at VŠB - Technical University of Ostrava.

6. Final provisions

Conditions for admission for the university study programmes (fields of study) at VŠB - TU Ostrava for the academic year 2018/2019 were approved by the Academic Senate of VŠB - TU Ostrava on 5 December 2017. The validity of the document is finished by announcing the conditions for admission for the university study programmes for the next academic year.