#### FACULTY OF NATURAL SCIENCES MBU

Tajovského 40, 974 01 Banská Bystrica,

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Student administration:

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**Application deadline:** until 31/03/2021 (internal and external studies)

Based on the decision of the Dean's Board of 17 February 2021, teacher study programs in combination with teaching of etics will not be opened in AR 2021/2022 as a result of the implementation of the rules of the Slovak Accreditation Agency for Higher Education.

#### Date of the written admission examination:

2/ – 4/ 06/ 2021 Bachelor's and Master's Degree Studies (internal and external studies) 4/ 06/ 2021 PhD. studies (internal and external studies)

### FNS open day:

November/ 2020 – during Science Week

February 2021 - the deadline will be specified on the faculty and university websites.

#### **Admission Examination Fee**

Application for one study programme (paper document) -35 € Application for one study programme (electronic document) -32 €

### Payments are only accepted by wire transfer to the following:

#### 1. Fee payment from EU countries:

Name of account: Univerzita Mateja Bela v Banskej Bystrici

Name and adress of the bank: Štátna pokladnica, Radlinského 32, 810 05 Bratislava 15

IBAN: **SK75 8180 0000 0070 0009 5590** 

SWIFT / BIC: SPSRSKBA

VS (Variable symbol): 5031 (Bachelor's study)

**5032** (Master's study) **5033** (PhD's study)

KS (Konstant symbol): 0308 – bezhotovostné platby

SS (Specific symbol): birth certificate number (applicants from the Slovak Republic)

date of birth in the following form: DDMMYY

(foreign applicants)

Message for the recipient: name and surname of the applicant

#### 2. Payment of the fee through an intermediary bank from outside the EU:

Name of account: Univerzita Mateja Bela v Banskej Bystrici

Name and adress of the bank: Všeobecná úverová banka, a. s., Mlynské Nivy 1,

829 90 Bratislava

IBAN: **SK75 8180 0000 0070 0009 5590** 

SWIFT / BIC: SUBASKBXXXX

VS (Variable symbol): 5031 (Bachelor's study)

**5032** (Master's study) **5033** (PhD's study)

KS (Konstant symbol): 0308 – bezhotovostné platby

SS (Specific symbol): birth certificate number (applicants from the Slovak Republic)

date of birth in the following form: DDMMYY

(foreign applicants)

Message for the recipient: name and surname of the applicant

The admission fee must be paid by the applicant or person authorized by him/her by bank transfer no later than last day of deadline for applications. The application for study without a paid fee in the fixed amount will not be accepted.

Accredited Study Programmes Offered by the Faculty of Natural Sciences MBU in the Academic Year 2021/2022

BACHELOR'S DEGREE STUDIES									
Faculty	Study Programme		Form of Study	Degree of Study	Period of Study	Place of Study		otal nitted	
Interdis	ciplinary Studies of the B	ranch of Study of Chemis	stry with		nch of St	udy of Law			
FNS	NS Forensic and Criminalistic Chemistry		Internal	BA	3yrs	Banská Bystrica		30	
Branch	of Study: Earth Science								
FNS	Geopotential of Regions		Internal	BA	3yrs	Banská Bystrica		20	
Branch	of Study: Ecological and	Environmental Sciences		•					
FNS	Environmental Safety		Internal	BA	3yrs	Banská Bystrica		20	
FNS	Ecology and protection of	f Ecosystems	Internal	BA	3yrs	Banská Bystrica		15	
Branch	of Study: Mathematics				•				
FNS	Mathematics		Internal	BA	3yrs	Banská Bystrica		15	
Branch	anch of Study: Informatics								
FNS	Applied Computer Scien	ce	Internal	BA	3yrs	Banská Bystrica		65	
Branch	of Study: Teaching and P	edagogical Sciences							
		Dual specialties (A	pprobat	tion)					
FNS	Teaching of Biology	Teaching of Physics	Interna	ıl BA	3 3 3 y	rs Banská Bysti	rica	5	
FNS	Teaching of Biology	Teaching of Geography	Interna	ıl BA	3 3 3 y	rs Banská Bysti	rica	15	
FNS	Teaching of Biology	Teaching of Chemistry	Interna	ıl BA	3 3 3 y	rs Banská Bysti	rica	15	
FNS	Teaching of Biology	Teaching of Mathematics	Interna	ıl BA	3 3 3 y	rs Banská Bysti	rica	5	
FNS	Teaching of Biology	Teaching of English Language and Literature (*)	Interna	al BA	3у	rs Banská Bysti	rica	5	
FNS	Teaching of Biology	Teaching of History (*)	Interna	al BA	3 y	rs Banská Bysti	rica	5	
FNS	Teaching of Biology	Teaching of French Language and Literature (*)	Interna	ıl B <i>A</i>	3у	rs Banská Bysti	rica	5	
FNS	Teaching of Biology	Teaching of Philosophy (*)	Interna	ıl B <i>A</i>	3у	rs Banská Bysti	rica	5	
FNS	Teaching of Biology	Teaching of Slovak Language and Literature *)	Interna	ıl BA	3y	rs Banská Bysti	rica	5	
FNS	Teaching of Biology	Teaching of Psychology**)	Interna	al BA	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	rs Banská Bysti	rica	5	

ENIC	Tanching of Dhysics	Teaching of	Intomol	DA	2	Danalsá Driatnica	5
FNS	Teaching of Physics	Mathematics	Internal	BA	3yrs	Banská Bystrica	
FNS	Teaching of Physics	Teaching of Geography	Internal	BA	3yrs	Banská Bystrica	5
FNS	Teaching of Physics	Teaching of English language and Literature (*)	Internal	BA	3yrs	Banská Bystrica	5
FNS	Teaching of Physics	Teaching of Slovak Language and Literature (*)	Internal	BA	3yrs	Banská Bystrica	5
FNS	Teaching of Geography	Teaching of Mathematics	Internal	BA	3yrs	Banská Bystrica	5
FNS	Teaching of Geography	Teaching of History (*)	Internal	BA	3yrs	Banská Bystrica	15
FNS	Teaching of Geography	Teaching of Philosophy (*)	Internal	BA	3yrs	Banská Bystrica	5
FNS	Teaching of Geography	Teaching of English Language and Literature (*)	Internal	BA	3yrs	Banská Bystrica	10
FNS	Teaching of Geography	Teaching of German Language and Literature (*)	Internal	BA	3yrs	Banská Bystrica	5
FNS	Teaching of Geography	Teaching of Slovak Language and Literature	Internal	BA	3yrs	Banská Bystrica	5
FNS	Teaching of Geography	Teaching of Psychology**)	Internal	BA	3yrs	Banská Bystrica	5
FNS	Teaching of Chemistry	Teaching of Physics	Internal	BA	3yrs	Banská Bystrica	5
FNS	Teaching of Chemistry	Teaching of Geography	Internal	BA	3yrs	Banská Bystrica	5
FNS	Teaching of Chemistry	Teaching of Mathematics	Internal	BA	3yrs	Banská Bystrica	5
FNS	Teaching of Chemistry	Teaching of English Language and Literature (*)	Internal	BA	3yrs	Banská Bystrica	5
FNS	Teaching of Chemistry	Teaching of French Language and Literature (*)	Internal	BA	3yrs	Banská Bystrica	5
FNS	Teaching of Chemistry	Teaching of Slovak Language and Literature *)	Internal	BA	3yrs	Banská Bystrica	5
FNS	Teaching of Computer Science	Teaching of Biology	Internal	BA	3yrs	Banská Bystrica	10
FNS	Teaching of Computer Science	Teaching of Physics	Internal	BA	3yrs	Banská Bystrica	10
FNS	Teaching of Computer Science	Teaching of Chemistry	Internal	BA	3yrs	Banská Bystrica	10
FNS	Teaching of Computer Science	Teaching of Geography	Internal	BA	3yrs	Banská Bystrica	10
FNS	Teaching of Computer Science	Teaching of Mathematics	Internal	BA	3yrs	Banská Bystrica	10
FNS	Teaching of Computer Science	Teaching of English Language and Literature (*)	Internal	BA	3yrs	3yrs Banská Bystrica	
FNS	Teaching of Computer Science	Teaching of Philosophy (*)	Internal	BA	3yrs	Banská Bystrica	5
FNS	Teaching of Computer Science	Teaching of History (*)	Internal	BA	3yrs	Banská Bystrica	5
FNS	Teaching of Computer Science	Teaching of Slovak Language and Literature (*)	Internal	BA	3yrs	Banská Bystrica	5
FNS	Teaching of Computer Science	Teaching of Psychology**)	Internal	BA	3yrs	Banská Bystrica	5
FNS	Teaching of Mathematics	Teaching of English Language and Literature (*)	Internal	BA	3yrs	Banská Bystrica	5

FNS	Teaching of Mathematics	Teaching of Slovak Language and Literature (*)	Internal	BA	3yrs	Banská Bystrica	5	
FNS	Teaching of Mathematics	Teaching of Music Art (**)	Internal	BA	3yrs	3yrs Banská Bystrica		
FNS	Teaching of Mathematics	Teaching of Psychology**)	Internal	BA	3yrs	Banská Bystrica	5	
FNS	Teaching of Biology	Technology	Internal	BA	3yrs	Banská Bystrica	5	
FNS	Teaching of Physics	Technology	Internal	BA	3yrs	Banská Bystrica	5	
FNS	Teaching of Geography	Technology	Internal	BA	3yrs	Banská Bystrica	5	
FNS	Teaching of Chemistry	Technology	Internal	BA	3yrs	Banská Bystrica	5	
FNS	Teaching of Computer Science	Technology	Internal	BA	3yrs	Banská Bystrica	5	
FNS	Teaching of Mathematics	Technology	Internal	BA	3yrs	Banská Bystrica	5	
FNS	Technology	Teaching of English Language and Literature (*)	Internal	BA	3yrs	Banská Bystrica	5	
FNS	Technology	Teaching of Slovak Language and Literature (*)	Internal	BA	3yrs	Banská Bystrica	5	
FNS	Teaching of Practical Preparation Internal BA 3yrs Banská Bystrica						25	
<b>BA Intern</b>	nal Studies in Total						500	
Branch of	f Study: Earth Science							
FNS	Geopotential of Regions		External	BA	4yrs	Banská Bystrica	10	
	f Study: Ecological and E	Environmental Sciences				T	15	
FNS	NS Environmental Safety External BA 4yrs Banská Bystrica							
Branch of Study: Informatics								
FNS	Applied Computer Science	External	BA	4yrs	Banská Bystrica	25		
Branch of Study: Teaching and Pedagogical Sciences								
FNS Teaching of Practical Preparation External BA 4yrs Banská Bystrica 3								
BA External Studies in Total							80	

MASTER'S DEGREE STUDIES										
Faculty	Study Programme	Form of Study	Degree of Study	Period of Study	Place of Study	Total admitted				
Branch o	Branch of Study: Earth Science									
FNS	Applied Geology	Internal	MA	2yrs	Banská Bystrica	10				
FNS	Geography and Regional Development	Internal	MA	2yrs	Banská Bystrica	10				
Branch o	Branch of Study: Ecological and Environmental Sciences									
FNS	Environmental Management	Internal	MA	2yrs	Banská Bystrica	10				
FNS	Ecology and Protection of Ecosystems	Internal	MA	2yrs	Banská Bystrica	10				
Branch o	Branch of Study: Mathematics									
FNS	Mathematics of Data Analysis and Finance	Internal	MA	2yrs	Banská Bystrica	10				

Dranch	of Study: Informatics							
FNS	Applied Computer Scien	ce	Internal	MA	2yrs	Banská Bystrica	25	
Branch of Study: Teaching and Pedagogical Sciences								
Dual specialties (Approbation)								
FNS	Teaching of Biology	Teaching of Geography	Internal	MA	2yrs	Banská Bystrica	10	
FNS	Teaching of Biology	Teaching of Chemistry	Internal	MA	2yrs	Banská Bystrica	15	
FNS	Teaching of Biology	Teaching of Slovak language and Literature (*)	Internal	MA	2yrs	Banská Bystrica	5	
FNS	Teaching of Biology	Teaching of English Language and Literature (*)	Internal	MA	2yrs	Banská Bystrica	5	
FNS	Teaching of Biology	Teaching of History (*)	Internal	MA	2yrs	Banská Bystrica	5	
FNS	Teaching of Physics	Teaching of Ethics (**)	Internal	MA	2yrs	Banská Bystrica	5	
FNS	Teaching of Physics	Teaching of Mathematics	Internal	MA	2yrs	Banská Bystrica	5	
FNS	Teaching of Physics	Teaching of Geography	Internal	MA	2yrs	Banská Bystrica	5	
FNS	Teaching of Geography	Teaching of Mathematics	Internal	MA	2yrs	Banská Bystrica	5	
FNS	Teaching of Geography	Teaching of History (*)	Internal	MA	2yrs	Banská Bystrica	10	
FNS	Teaching of Geography	Teaching of English language and Literature (*)	Internal	MA	2yrs	Banská Bystrica	5	
FNS	Teaching of Geography	Teaching of German Language and Literature (*)	Internal	MA	2yrs	Banská Bystrica	5	
FNS	Teaching of Geography	Teaching of Slovak language and Literature (*)	Internal	MA	2yrs	Banská Bystrica	5	
FNS	Teaching of Computer Science	Teaching of Biology	Internal	MA	2yrs	Banská Bystrica	5	
FNS	Teaching of Computer Science	Teaching of English language and Literature (*)	Internal	MA	2yrs	Banská Bystrica	5	
FNS	Teaching of Mathematics	Teaching of Music Art (**)	Internal	MA	2yrs	Banská Bystrica	5	
FNS	Teaching of Mathematics	Teaching of English language and Literature (*)	Internal	MA	2yrs	Banská Bystrica	5	
FNS	Teaching of Computer Science	Technology	Internal	MA	2yrs	Banská Bystrica	5	
MA Int	ernal Studies in Total						185	
Branch	of Study: Earth Science							
FNS	Applied Geology		External	MA	3yrs	Banská Bystrica	10	
FNS	Geography and Regional	Development	External	Ma	3yrs	Banská Bystrica	10	
Branch	of Study: Ecological and	<b>Environmental Sciences</b>						
FNS	Environmental Managen	nent	External	MA	3yrs	Banská Bystrica	10	
Branch of Study: Informatics								
FNS Applied Computer Science External MA 3yrs Banská Bystrica						20		
MA External studies in Total						50		
BA and MA in Total						815		
	<b>Notes:</b> In case of a lesser number of applicants for a specific study programme in external form, the faculty reserves the right not to open the pro-							
	a lesser number of applicants for	a specific study programme in ex	xternal form,	the faculty	reserves th	e right not to open the p	rogramme.	
In case of	a lesser number of applicants for faculty Studies in cooperate			the faculty	reserves th	ne right not to open the p	rogramme.	

#### **DOCTORAL STUDIES**

Study Programme	Form of Study	Degree of Study	Period of Study			
Branch of Study Ecological and Environmental Sciences						
Evolution of Ecosystems and their Protection	Internal	PhD.	4 yrs.			
Evolution of Ecosystems and their Protection	External	PhD.	5 yrs.			
Remediation of Environmental Burdens	Internal	PhD.	3 yrs.			
Remediation of Environmental Burdens	External	PhD.	4 yrs.			
Branch of Study Earth Science						
Geochemistry	Internal	PhD.	4 yrs.			
Geochemistry	External	PhD.	5 yrs.			
<b>Branch of Study Mathematics</b>						
Mathematical Analysis (SP in both Slovak and English Language)	Internal	PhD.	4 yrs.			
Mathematical Analysis (SP in both Slovak and English Language)	External	PhD.	5 yrs.			
Branch of Study Physics						
Theory of Physics Education	Internal	PhD.	3 yrs.			
Theory of Physics Education	External	PhD.	4 yrs.			

PhD. Academic title doctor philosophiae

# GENERAL INFORMATION ABOUT THE ADMISSION PROCEDURE

The application is due on 31/03/2021 for both Bachelor's, Master's and Doctoral's degree studies in internal and external form. The application can be submitted in paper and electronic form. In the case of a paper application, the date of the postmark is decisive. The applicant may apply for more than one study programme but the applicant may only include one study programme in each application. It is necessary to always attach a copy of payment confirmation of the admission fee to the application form. Without the confirmation, the application form will not be accepted and will be returned.

Admission examination fee is  $\mbox{\em e}35$  for one study programme of University studies in internal and external form ( $\mbox{\em e}32$  for the electronic application forms).

If the applicant applies for two and more study programmes offered by the FNS MBU, the applicant should pay  $\mbox{\em e35}$  fee for each study programme ( $\mbox{\em e32}$  for each study programme for the electronic application form).

Refunds will not be granted for applicants that do not succeed or did not take part in the admission examination. In case of the applicant's absence from the admission examination due to a serious reason, part of the fee will be refunded once a written request is delivered to the student administration office of the faculty. The request must be postmarked before the date of admission examination.

The theses for the admission examination including the extent of required knowledge will be sent by the student administration office of the faculty along with the invitation to the admission examination.

Applicants that are accepted without an admission examination will be sent an admission decision after the student admission office has received both a secondary school diploma and the final-year school report (for MA's degree studies, a BA diploma; for PhD's

degree studies, a MA or Ing. diploma). This is in accordance to § 58 of the law. 131/2002 Coll.

Students who pass the admission examination will be sent the decision regarding their admission to studies according to § 58 of the law 131/2002 Coll.

### Attachments to be attached with the application for a Bachelor's degree study

- 1. The CV of the applicant,
- 2. A copy of the receipt for the admission proceedings fee payment (the payment must be wired, postal money orders cannot be accepted), A copy of the payment confirmation
- 3. A certified copy of secondary school <u>leaving</u> ending examination certificate (in case of applicants for a Bachelor's degree study who already have a high school <u>leaving</u> ending exam certificate).

Applicants for a Bachelor's degree study who have secondary school <u>graduation certificate</u> in the same year as an application submission and apply for the study programme with no admission examination must deliver a <u>certified copy of a high school graduation certificate</u> to the faculty's Admission Office by **18 June 2021**.

## Attachments to be attached with the application for a Master's degree study

- 1. The CV of the applicant,
- 2. A copy of the receipt for the admission proceedings fee payment (the payment must be wired, postal money orders cannot be accepted), A copy of the payment confirmation
- 3. A certified copy of a State Examination Diploma pertaining to the Bachelor's study or a Confirmation of a graduation of Bachelor's study (in the case of applicants for a Master's degree study who completed their studies at other universities). Honorable statement on the delivery of end-of-study papers (valid for applicants who finish a bachelor study in this academic year)

## Attachments to be attached with the application for a PhD's degree study

- 1. The CV of the applicant,
- 2. A copy of the receipt for the admission proceedings fee payment (the payment must be wired, postal money orders cannot be accepted), A copy of the payment confirmation
- 3. A certified copy of a State Examination Diploma pertaining to the Master's study,
- 4. A Confirmation of graduation of a Master's study (in the case of applicants for a Master's degree study who completed their studies at other universities),
- 5. Dissertation project Framework

#### CONDITIONS FOR ADMISSION

According to § 58 of the law 131/2002 Coll., the admission procedure commences once the applicant for University studies sends the application form for studies at the Faculty of Natural Sciences at MBU.

According to § 58, Section 3 b/ of the law 131/2002 Coll. all external applicants employed as volunteers, civil service, or special forces are required to enclose a certificate of continuous employment with their application. In case of a insufficient number of applicants for a specific study programme in external form, the faculty reserves the right not to open the programme.

The faculty does not require a medical certificate for university studies.

Foreign students must meet the aforementioned criteria, too. Foreign students who are not capable of speaking Slovak fluently are obliged to take part at least in a one-month language course provided by the Methodological centre MBU for Slovaks living abroad.

Applicants for studies who have completed the previous level of education abroad are required to submit recognition of evidence of education obtained outside the territory of the Slovak Republic, by Act no. 422/2015 Coll. on the Recognition of Evidence of Education and on the Recognition of Professional Qualifications and on Amendments to Certain Acts. The decision on the recognition of diplomas must be submitted by the admitted applicant no later than on the day of enrolment. The Recognition of the education certificate obtained from secondary schools abroad is in the competence of the regional school authority which issues the decision after a review of the details ensuring that all conditions have been met. Recognition of the diploma of a university graduate (1st degree and 2nd degree in the case of continuing at a higher level of study) abroad is in the competence of the university, which will issue a decision after meeting all conditions.

#### **Admission Examination**

#### **BACHELOR'S DEGREE STUDY**

In the academic year 2021/2022 the admission examination for the **Bachelor's degree programmes** in both internal and external form will be held as follows:

- 1. According to the guarantor of the study programme's decision, applicants can be admitted to studies with no admission examination if the number of applicants does not exceed the admission plan. In this case, The admission condition is a completed secondary education with a secondary graduation examination.
- 2. If the number of applicants exceeds the admission plan for the study programme, applicants will be admitted to studies according to admission test results. In order for the applicant to successfully pass the written test, the applicant must have an assessment of at least 50% from the test result (in case of a Teaching Study Programmes with a combination, the two specialisation tests must have an assessed of at least 50%).

#### Written tests will be given for:

- mathematics, encompassing the secondary grammar school curriculum for the study programmes Mathematics, Teaching of Mathematics,
- physics, encompassing the secondary grammar school curriculum for the study programme Teaching of Physics,
- general knowledge concerning the application of mathematics and physics for the study programme **Teaching of Technology**,
- biology, encompassing the secondary grammar school curriculum for the study programme **Teaching of Biology**,
- biology and ecology, encompassing the secondary grammar school curriculum for the study programme Environmental Safety,
- biology and ecology, encompassing the secondary grammar school curriculum for the study programme **Ecology and protection of Ecosystems**,
- chemistry, encompassing the secondary grammar school curriculum for the study programme **Teaching of Chemistry**, **Forensic and Criminalistic Chemistry**,

- geography and chemistry, encompassing the secondary grammar school curriculum for the study programme Applied Geology,
- geography, encompassing secondary the grammar school curriculum for the study programme **Teaching of Geography**,
- From basic natural sciences: geography, biology, chemistry, mathematics, the end of physics to the study of **Geopotential regions**
- mathematics and computer science, encompassing the secondary grammar school curriculum for the study programme Teaching of Computer Science, Applied Computer Science,
- pedagogy, encompassing the general knowledge of a secondary pedagogical school graduate, and technical application of mathematics and physics for the study programme Teaching of Practical Preparation.

Written tests and conditions for admission to teaching study programmes in combination, with one specialisation being provided by the Faculty of Education MBU:

• Music education - admission is conditioned by passing the talent test in musical instrument and solo singing at level II. The cycle of the Elementary Art School (solo singing at the Elementary Art School. is supposed to master playing a musical instrument at the level of the 5th year of the Elementary Art School); The candidate must have a sound and capable voice, sound musical development and a relationship with the chosen profession

Written tests and conditions for admission to teaching study programmes in combination, with one specialisation being provided by the Faculty of Arts MBU:

**Teaching of English Language and Literature** – written form of admission examination is focused on the knowledge of grammar, vocabulary, and practical communication skills (part of which will be evaluated in the traditional way):

To be assigned the maximum score from the English language in the admission procedure (without participating in the admission examination), the applicant must present the certificate obtained by completing at least one of the following examinations:

- IELTS International English Language Testing System minimum level 6,5,
- University of Cambridge ESOL Examinations, Certificate in Advanced English,
- University of Cambridge ESOL Examinations, Certificate of Proficiency in English,
- University of Cambridge ESOL Examinations, First Certificate in English evaluation A,
- secondary school leaving examination (GCSE) from the English language level B2, external part minimum of 85% + oral part evaluation "excellent (A)",
- applicants that successfully completed the exam from the English language as a part of National Comparative Exams (NCE). The applicant has completed the NCE successfully in case he obtained a minimum percentile of 85. The applicant does not have to document the results of the NCE. However, the applicant needs to include the consent to make the NCE results available to the faculty at <a href="www.scio.cz/nsz">www.scio.cz/nsz</a> in their application form.

**Teaching of History** – no admission examination. If the number of applicants exceeds the admission plan for the study programme, the faculty reserves the right to select applicants according to the average of grades obtained in the secondary school leaving examination (GCSE).

**Teaching of Philosophy** – no admission examination. If the number of applicants exceeds the admission plan for the study programme, the faculty reserves the right to select applicants according to the average of grades obtained in the secondary school leaving examination (GCSE).

#### **Teaching of the French Language and Literature** – no admission examination.

Foreign language competence at a minimum of a **B2 level** according to the Common European Framework of Reference for Languages is the precondition for studying the French language and literature in all combinations of branch of study - Teaching of Academic Subjects.

If the number of applicants exceeds the admission plan for the study programme, the faculty reserves the right to select applicants according to the average of grades obtained in the secondary school leaving examination (GCSE). To be assigned the maximum score in the admission procedure, the applicant must present the certificate (certified copy) obtained by completing at least one of the following examinations:

- secondary school leaving examination (GCSE) from the French language B2
   level with the evaluation 'excellent (A)',
- in case of graduates from a bilingual sections (the French language) result of oral and written part of secondary school leaving examination (GCSE) with the evaluation 'excellent (A)',
- French language diploma DELF (B2 level),
- French language diploma DALF (C1 level and higher),
- 1st 3rd place at the French Language Olympiad (either in regional or national round),
- state examination in the French language issued by the State Language School.

#### **Teaching of German Language and Literature** – no admission examination

Foreign language competence at a minimum of a **B2 level** according to the Common European Framework of Reference for Languages is the precondition for studying the German language and literature in all combinations of branch of study - Teaching of Academic Subjects.

If the number of applicants exceeds the admission plan for the study programme, the faculty reserves the right to select applicants according to the average of grades obtained in the secondary school leaving examination (GCSE).

#### **Teaching of the Slovak Language and Literature** – no admission examination

If the number of applicants exceeds the admission plan for the study programme, the faculty reserves the right to select applicants according to the average of grades obtained in the secondary school leaving examination (GCSE).

#### MASTER'S DEGREE STUDY

The applicant for study in a Master's degree study programme in the academic year 2021/2022 must have completed a bachelor's degree of studies in the same or similar study programme which is being applied for. Study applicants who have completed a bachelor's degree of studies abroad are required under § 106 of Act no. 131/2002 Coll. to present a recognition of a qualification or Diploma obtained outside the territory of the Slovak Republic. The applicant admitted to studies is obliged to present the recognition of documents no later than the date of enrolment.

In the academic year 2021/2022 the admission examination for **Master's degree** programmes in both internal and external form will be held as follows:

- 1. According to the guarantor of the study programme's decision, applicants can be admitted to studies with no admission examination if the number of applicants does not exceed the admission plan. Basic condition for admission will be a completed bachelor's degree of studies in the same or similar study programme.
- 2. If the number of applicants exceeds the admission plan for the study programme, applicants will be admitted to studies according to admission test results. In order for the applicant to successfully pass the written test, the applicant must have an assessment of at least 50% from the test result (in case of a Teaching Study Programmes with a combination, the two specialisation tests must have an assessed of at least 50%).

#### Tests will be written in:

- a pedagogical-psychological basis and subject specialisations of the study programme encompassing the bachelor's degree study curriculum for study programmes Teaching of Biology, Physics, Geography, Chemistry, Computer Science, Mathematics, along with subject specialisations provided by the Faculty of Education or Faculty of Arts MBU,
- a pedagogical-psychological basis and general knowledge concerning application of mathematics and physics encompassing the bachelor's degree study curriculum for the study programme **Pedagogy of Technical Education**,
- a natural scientific basis of the study programme Environmental management and from rudiments of environmental management encompassing the bachelor's degree studies curriculum for the study programme **Environmental Management**,
- applied computer science encompassing the bachelor's degree studies curriculum for the study programme Applied Computer Science,
- Forensic and Criminological Chemistry the bachelor's degree studies curriculum for the study programmes **Applied Chemistry and Forensic Practice**
- applied geology encompassing the bachelor's degree studies curriculum for the study programme Applied Geology,
- mathematics encompassing the bachelor's degree studies curriculum for the study programmes **Mathematics of Data Analysis and Finance**,
- ecology, monitoring and computer systems encompassing the bachelor's degree studies curriculum for the study programmes Ecology and Protection of Ecosystems,
- complex physical and human geography, physical-geographical syntheses, human-geographical syntheses, protection of nature and landscape, regional geography of Slovakia, continents and oceans encompassing the bachelor's degree studies curriculum for the study programme Geography and Regional Development.

Evaluation of a written admission tests to bachelor's and master's study programmes is carried out electronically. Results of the entrance examination will be published on a notice board on the Faculty's premises approximately an hour later, and posted on the faculty's website on the next day. The applicant has the right to ask about the evaluation of the written test and ask a committee of the Faculty of Natural Sciences for an explanation.

More detailed information on individual study programmes and admission examination can be found on the website of the Faculty of Natural Sciences MBU and on the websites of individual departments.

Information concerning the admission procedure for doctoral studies at the Faculty of Natural Sciences is currently published on the website of the faculty in accordance with the current Directive on doctoral studies at the Faculty of Natural Sciences MBU.

#### PHD.'S DEGREE STUDY

Informations for admission to PhD studies at the FNS MBU are currently available on the faculty's website in accordance with the current directive for PhD study at the FNS MBU.

## ACCOMODATION, BOARDING AND HEALTH CARE

Accommodations facilities are located in the residence hall ŠD 1:

- address: Tajovského 40, 974 01 Banská Bystrica, director of the residence hall: Ing. Orlíčková Katarína, telephone: 048/4467619, e-mail: katarina.orlickova@umb.sk, information desk of the residence hall telephone: 4467620,
- bus connection: bus n. 34, 35, 36 to Podlavice and/or Skubín, trolleybus n. 1 to the Roosevelt Hospital (bus stop *Tajovského SOU* and a five-minute walk),
- type of accommodation: triple and double rooms with shared bath and lavatory.
   Furnishings: bed, bed-side table, wardrobe, shelves, chair, writing desk, blanket, pillow, bed cover, and bedding. On each floor, there is a common kitchen (cooker, cupboards)
- common rooms: study rooms, V club managed by University students.

<u>Boarding</u>: In the building of the residence hall ŠD 1 there is a canteen for both students and employees of MBU.

Health Care: in the premises of the residence hall ŠD 1 there is a GP and a dental office.

All requests and information regarding accommodation will be sent to applicants along with a decision on admission and other information.

#### THE APPLICATION OF GRADUATES

#### **Bachelor's Degree Study**

# Study Programme (hereinafter referred to as SP) of the branches of study Teaching and Pedagogical Sciences

Graduates can work as a teaching assistant in both lower and higher secondary education but in the first place, they are ready to successfully continue with a master's degree studies of the same or similar study programme.

## **SP – Teaching of Practical Preparation**

A graduate is qualified for teaching professional subjects that are mainly focused on acquiring practical skills, habits and craft in a given professional field of education and study. The graduate is prepared to organize, plan and teach practical training with professional knowledge at a Secondary Vocational School within Vocational Training or Practice.

#### **SP – Applied Computer Science**

A graduate is able to analyse, design, create and maintain software information technology systems creatively and independently. There is an emphasis in this study

programme placed on acquiring knowledge in the field of software systems enabling the graduate to apply information technology software applications in industry, economy, health care and other areas. The graduate will acquire experience by applying methods of analysis and synthesis of the software systems, through experimental design on the basis of analysing the data obtained, etc. The graduate can carry out scientific work across a whole range of information technology software applications by employing design and programming advanced methods and techniques. The graduate will not only be able to put his knowledge into practice after their studies, but also successfully continue their Master studies in Applied Computer Science.

#### SP - Environmental Safety

A graduate has sufficient theoretical and practical knowledge of environmental management systems, Slovak and EU environmental law and legislation. The graduate gains a fundamental knowledge of issues concerning environmental protection in an economic context. They become an environmental manager with a strong knowledgeable basis of natural sciences, commanding basic principles on technical solutions, pedagogical psychology tools to shape public opinion and guide society towards a sustainable way of life. The graduate can work as an environmental instructor, coordinator or adviser on public relations in protected areas, state administration, local authorities, in the third sector and eco-centres.

## **SP – Forensic and Criminalistic Chemistry**

The graduate has adequate theoretical and practical knowledge in selected chemical disciplines (general, inorganic, analytical, physical, organic, nuclear chemistry, chemistry of toxic substances, and biochemistry) but also has knowledge in physics, mathematics, human anatomy, genetics, forensic science and criminology, which he may apply in the practice. He is able to work independently especially in the field of chemical analysis and can carry out basic tasks in the field of criminology, civil protection, fire and rescue service and the armed forces.

#### SP - Applied Geology

A graduate acquires the basic vocational knowledge of General Geology, General and Systematic Mineralogy, General and Systematic Palaeontology, Historical and Stratigraphic Geology, Structural Geology, the Petrography of the Igneous and Sedimentary Rocks, Sedimentology, Geochemistry and Mineral Deposits, Hydrogeology and Environmental Geology. The graduate of the study programme is an expert, apart from geology, in a wide spectrum of subject-related fields of study. The graduate will be able to independently handle literature and perform basic assessment activity in the field of geology, or abiotic components of the environment. Graduates of a Bachelor's study may also work in digitization and graphical evaluation of geological data in the institutions of government, municipalities, museums, established companies in the environmental state and private sector. The graduate will be prepared to continue the follow-up master study of geology and related fields.

**SP** - Geopotential of Regions (Bc.) — graduates master theoretical and methodological knowledge of Earth research. They have extensive expertise in geology and geography. They understand the principles of scientific work, scientific formulation of a research problem, ethical and social aspects of scientific work. They can implement geographic information systems, remote sensing, 3D modeling and other modern methods of research and the interpretation of data. They can apply the acquired knowledge creatively and independently in solving problems of geoscience research or in practice. After graduation, they can be

employed in state and municipal institutions and in the private sector. They are able to continue in the master's degree in geological or geographic study programs.

#### **SP** – **Mathematics**

A graduate acquires the basic theoretical knowledge of Mathematics enabling them to supplement education with self-studies, if necessary. The graduate understands fundamental mathematical and statistical methods and the way they are applied in practice. The graduate is also able to apply the knowledge of Statistics to solve individual tasks for the collection and analysis of data in basic statistical models. The graduate becomes familiarized using computer technology and with software functions used in statistically-oriented departments or in the financial and insurance sectors. The graduate is prepared to continue their Master studies in Mathematics or other subject-related fields of study, as well as working in various industrial sectors, state administration and the private sector.

#### **SP – Ecology and Environmental Protection**

A graduate acquires the fundamental knowledge of the Slovak biota, structure and behaviour of organisational units such as population or country, including the abiotic variables of the environment. Moreover, they become familiar with the ecological requirements for a specific group of organisms and their bioindication potential. The graduate becomes skilled in general and in particular, nature protection at the theoretical and practical level, as well as in nature and country protection legislation, including its support through institutions.

## **Master's Degree Study**

## SP of the department Teaching and Pedagogical Sciences

Graduates possess the ability to teach the respective specialisation at lower and higher levels of secondary education as well as University education. In addition to this ability, they are able to manage the development of one of many methodical materials necessary for teaching the respective subject. They will possess competency in methods regarding research and development within subject didactics and are ready to continue their education in Doctoral studies.

A graduate in the Teaching of Technology is competent to teach subject Technology at the lower-secondary education level. It allows the graduate to become skilled in the field of Wood Technology, Mechanical Engineering, Electrical Engineering, Electronics, Cybernetics and the Didactics of Technics.

#### SP – Applied Geology

The graduates possess knowledge in theoretical and practical foundations of geology, and understand ongoing processes in the lithosphere, are familiar with the basic methods in applied geological fields, and have mastery of the basics of a broad spectrum of related disciplines (GIS, pedology, anthropogenic load, ecology, geography, etc.). They will have both theoretical and practical knowledge of the latest research methods related to rocks and minerals, allowing them plenty of career opportunities in the labour market. The master's degree graduate can also work on the digitisation and graphical evaluation of geological data within the institutions of state administration, municipalities, museums, as well as environmentally established companies in the state and private sector.

## **SP – Environmental Management**

The graduate has a basic knowledge of a progressive management system, decision making, the coordination and supervision of resources, processes and relationships of organizations focused on solving environmental challenges. The graduate is familiarized on using the systems of environmental management and environmental auditing in productive and non-productive organizations. They draw up and employ education and training programmes to deal with the negative impacts of society on the environment. They are able to coordinate the activities of stakeholders to address environmental problems both at the regional and local level.

#### **SP – Applied Computer Science**

Graduates are able to analyse; design, implement and maintain software systems and information technology and to conduct research in the respective field with a high level of creativity and independence. The emphasis is put on the acquisition of a deep knowledge of software systems, allowing them to use the application of computer science in industry, economy, education, health care and other industries. In order for the graduate to use a rigorous scientific approach, they will gain experience in the application of the methods of analysis and synthesis of software systems, formulating and testing hypotheses, experimental design based on analysis of data, etc. The graduate can work as a scientific researcher encompassing software applications of information technologies, where they can apply advanced methods and techniques in design and programming.

## SP – Mathematics of Data Analysis and Finance

The graduate is qualified for applying modern methods of Financial Mathematics, Statistics, Econometrics, Numerical Mathematics, etc., in practice. Each graduate has a knowledge of fundamental mathematical and statistical methods and the way they can be applied in practice. They acquire the abilities to employ computer technology (with a particular emphasis on System R) and know all the ways in which they can apply the software used in statistically-oriented departments, as well as in the financial and insurance sector. The graduate can find employment in the financial and insurance sector as an actuary or financial analyst, as well as in various economic sectors as a statistician and data analyst.

## **SP – Applied Chemistry and Forensic Practice**

A graduate of the study controls the knowledge of analytical procedures, modern tools and computer modeling, provides the training of professionals capable of successfully acting not only on the narrowly specialized positions of forensic experts in the field of justice, but at the same time significantly increases the possibilities of their application.

#### **SP – Ecology and Environmental Protection**

The graduate is able to deal with difficult tasks included in ecological research on their own both in basic and applied form. They supplement the theoretical knowledge of Ecology with a practical knowledge of research methods aimed at plant communities and animal populations. The graduate is able to apply modern research methods to evaluate their state and forecast their further development. Moreover, they are prepared to synthesize the results achieved in the form of models, using methodology based on geographical information systems. The graduate becomes an expert, who is not only able to understand in practice the fundamental function of ecological data, but also process them on their own in databases and graphical outputs. In practice, at least two workers are usually necessary to handle this activity.

## SP – Geography and Regional Development

Graduates will gain knowledge and skills regarding the recognition of regions of different hierarchal levels. Their knowledge base is the basic concept of region, or microregion. They have the ability to use this knowledge and skills in the area of regions of higher

hierarchical orders (NUTS 3, NUTS 2, and NUTS 1). They can creatively use identified geographic phenomena and processes to determine the direction that their development should be aimed at. The graduates are able to independently and creatively explore the particularities of each region, as well as to generalise the results of their own research. They will acquire the concept of teamwork and will be able to coordinate research groups focused on research of regions, natural sciences, and humanities being at intersection. Graduates are fully prepared to identify, evaluate and prioritize the potential of regions from all aspects, with emphasis on socio-economic conditions with regard to natural and environmental character of regions. Career opportunities in the labour market can vary: state and public administration, through institutions involved in regional development and planning, as well as institutions related to economic, demographic, and environmental issues. Foreign institutions might be another possibility, e.g. within the EU or even beyond.

## UNIVERSITY STUDIES AT THE FACULTY OF NATURAL SCIENCES MBU, ORGANISATION AND COURSE OF STUDIES

University studies are based on the ECTS credit system, a tool that helps to evaluate and manage the studies. University education is realised within accredited study programmes in a bachelor's (three-year) and master's (two-year) degree, and doctoral studies (a three-, four- or five-year degree). Study programmes are realised in internal or external form by inclass or distant methods of learning.

The Faculty of Natural Science MBU presents itself as an educational institution whose aim is to educate future teacher of academic subjects and professional subject and practical preparation as well as experts in the non-educational area. The Faculty is a leading institution in Central Slovakia thanks to its varied and professional specialisation in the area of natural sciences and ecology. Excellent students are offered the possibility to study abroad within the Erasmus Programme (e.g. at Universidad de Murcia in Spain, Oulu University of Applied Sciences in Finland, Friedrich Schiller University of Jena in Germany, etc.).

Study programmes in the Pedagogy of Academic Subjects and the Pedagogy of Professional Subjects and Practical Preparation is usually realised as a combination study in two specialisation subjects or as a one specialisation subject at a master's level. The future teachers who wish to teach one more specialisation are provided with the continuing education in external form by the Faculty, as stated in the legislation in force.

The future teachers are prepared for teaching at the secondary level of primary schools, secondary grammar schools and secondary vocational schools. Their pedagogical qualification is guaranteed by the courses of pedagogical-psychological basis, by passing didactic professional courses, and by classroom experience and (continuous) pedagogical practice.

Graduates of the non-teaching study programme of Environmental Safety, Forensic and Criminalistic Chemistry, Environmental Management, System Ecology, Geography and Landscape Ecology, Mathematics, Mathematics of Data Analysis and Finance, Applied Chemistry and Forensis practice, Applied Computer Science, and Applied Geology become experts in the practice.

The Doctoral study programmes of Mathematical Analysis, *Theory of Physics Education, Geochemistry, Remediation of Environmental Burdens*, Evolution of Ecosystems and their Protection are focused on the graduates' acquirements in the latest scientific findings reflecting the current state of scientific research in the respective study programme.

Lectures and seminars in all study programmes are given within the premises of the Faculty of Natural Sciences MBU in Banská Bystrica. As for material-technical support, it fully corresponds to a degree of study and to a specialisation of the accredited study programme. Lectures and seminars are held in lecture halls, specialised classrooms used for

experimental teaching of computer science, engineering and technologies, chemistry, physics, biology; computer classrooms, GIS classroom, collections, and libraries of the individual departments. The building houses the University Library with reading rooms of specialised magazines, periodicals, with audio-visual equipment and access to on-line library system. In addition to specialised classroom, Internet access is provided within the premises of the Faculty.

## STUDY CONDITIONS FOR DISABLED STUDENTS AND STUDENTS WITH SPECIFIC NEEDS

The Faculty of Natural Sciences provides the appropriate study conditions for all disabled students and students with specific needs in accordance with their special study conditions and without lowering the requirements for their study performance. Applicants and students with special needs are disadvantaged in access to higher education because of their health or learning disabilities combined with the social factors that result from them. To overcome this disadvantage, targeted support services and appropriate adjustments are required without lowering the entitlement to their student results. All of the faculty premises are accessible to disabled people. For the visually impaired students, a student workplace with special software Jaws is set up. Each student is treated with specific approach according to his/her needs.

More detailed information about the conditions and possibilities of study for students with special needs can be found in the Study Guide for Students with Specific Needs at Matej Bel University in Banská Bystrica, which is available on the faculty webpage in the Study / Student / Students with Special Needs section.

#### COORDINATOR FOR STUDENTS WITH SPECIAL NEEDS:

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