

# Description of the study programme – UK JLF OSP PhD NORMAL AND PATHOLOGICAL PHYSIOLOGY outline<sup>1</sup>

**Name of the higher education institution: Comenius University (CU)**  
**Address of the higher education institution: Šafárikovo námestie 6, 814 99 Bratislava**  
**Identification number of the higher education institution: 00397865**  
**Name of the faculty: Jessenius Faculty of Medicine (JFM CU)**  
**Address of the faculty: Malá Hora 10701/4A, 03601 Martin, Slovak Republic**

Institution body for approving the study programme: Accreditation Board of Comenius University in Bratislava  
Date of the study programme approval or the study programme modification: 30.11.2018  
Date of the latest change<sup>2</sup> in the study programme description: 4/2022  
Reference to the results of the latest periodic review of the study programme by the institution: [Minutes of the Study Program Board](#)  
Reference to the assessment report of the application for accreditation of the study programme under § 30 of Act no. 269/2018 Coll.<sup>3</sup>:

## 1. Basic information about the study programme

- a) Name of the study program and its number according to the register of study programmes.  
**Normal and Pathological Physiology 106058**
- b) Degree of higher education and ISCED-F education degree code.  
3<sup>rd</sup> degree, ISCED-F code 864
- c) Place(s) of delivery of the study programme.  
Jessenius Faculty of Medicine, University Hospital Martin, contracted healthcare providers
- d) Name and number of the field of study in which higher education is obtained by completing the study programme, or a combination of two fields of study in which higher education is obtained by completing the study programme, ISCED-F codes of the field/fields<sup>4</sup>.  
45 – General medicine, ISCED-F: 0912 – medicine
- e) Type of the study programme: academically oriented, professionally oriented; translation, translation combination study programme (listing the specializations); teaching, teaching combination study programme (listing the specializations); artistic, engineering, doctoral, preparation for regulated profession, joint study programme, interdisciplinary studies.  
Doctoral, preparation for regulated profession
- f) Awarded academic degree.  
doctor („Philosophiae doctor, PhD. “)
- g) Form of study<sup>5</sup>.  
Full-time study in full-time form
- h) In the case of joint study programmes, cooperating institutions and the range of study obligations the student fulfils at each of the given institutions (§ 54a of the Act on Higher Education Institutions).  
It is not a joint study program
- i) Language or languages in which the study programme is delivered<sup>6</sup>.  
*Slovak, English*
- j) Standard length of the study expressed in academic years.  
4 years
- k) Capacity of the study programme (planned number of students), the actual number of applicants and students.  
Planned number of students admitted to the 1st year: 1  
Actual number of candidates: 0  
Average number of enrolled students in the first year: 0

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<sup>1</sup> The institution compiles a description of the study programme as an annex to the application for accreditation of the study programme.

- When submitting an application pursuant to § 30 (1) of Act no. 269/2018 Coll. the higher education institution states in the description only the data available at the time of application.
- Once the accreditation (or the internal approval of the study programme by the institution programme approval authority with the right to design programmes within the given field and degree) has been granted, the institution permanently makes the description available to the stakeholders of the study programme.
- The institution may choose the form of processing, visualization, and publication of the description, suitable for students, teachers and another users.
- In individual parts of the description, the institution may refer to another internal document that sufficiently describes the relevant area and is publicly available.
- In individual parts of the description, the institution may refer to a place in the information system which contains the relevant up-to-date information.
- The institution ensures that the description is up-to-date (if the change in the description is in the nature of a modification of the study programme and the change is made in accordance with § 30 (9) of Act No. 269/2018 Coll., the institution makes the change and publishes it only after approval by the Agency).

<sup>2</sup> If the change is not a modification of the study programme according to § 30 of Act no. 269/2018 Coll.

<sup>3</sup> It is stated only if the accreditation of the study programme has been granted according to § 30 of Act no. 269/2018 Coll.

<sup>4</sup> According to the International Standard Classification of Education. Fields of Education and Practice 2013.

<sup>5</sup> According to § 60 of Act no. 131/2002 Coll. on Higher Education Institutions.

<sup>6</sup> It means the languages in which all learning outcomes are achieved and all related courses of the study programme as well as the state examinations are carried out. The institution independently provides information on the possibility of partial study parts/courses in other languages in part 4 of the description.

Overview of the number of registered, participated and accepted applicants for study at JLF UK in the admission procedure for AR 2021/2022: registration - 0, participants - 0, admission - 0, enrolment - 0

## 2. Graduate profile and learning objectives

- a) The institution defines the learning objectives of the study programme such as student's abilities at the time of completion of the programme and the main learning outcomes<sup>7</sup>.

The qualification level of doctoral graduates at JLF UK is given by Act no. 131/2002 Coll. Act on Higher Education Institutions and on Amendments to Certain Acts on Higher Education Institutions, Decree of the Ministry of Education, Youth and Sports of the Slovak Republic no. 244/2019 Coll. on the system of study fields of the Slovak Republic and the characteristics of individual study programs of the 3rd level of higher education and is verified by the study credit system, dissertation examination and defense of the final dissertation before the commission for state examinations, including experts from relevant workplaces in Slovakia and abroad. The acquired knowledge, skills and abilities correspond to the profile of the graduate and enable the graduate to perform independent scientific activity. The graduate is characterized by independent, critical, and analytical thinking, which he applies in changing conditions. It uses the legal aspects of experimental and clinical research, including the introduction of new professional and scientific knowledge applicable in diagnostics and intervention to solve problems of clinical practice. The work considers the ethical and social aspects of scientific work. The graduate independently presents the results of research and development in publication and lecture form in front of the professional community in the Slovak Republic and abroad. It determines the focus of the research and can coordinate the team in the relevant scientific field.

The following outputs are defined for the study program normal and pathological physiology:

- the graduate has a deep theoretical knowledge, based on the current state of scientific knowledge in normal and pathological physiology of all organs and systems of the human body to the extent necessary for the implementation of doctoral studies,
- the graduate is capable of independent scientific work and brings his/her own solutions to problems in the field of normal and pathological physiology
- the graduate masters research methods in the field of normal and pathological physiology, focusing on methods of molecular physiology and related sciences (biochemistry, biology and others) and clinical-physiological research.

<https://www.slov-lex.sk/pravne-predpisy/SK/ZZ/2019/244/>

<https://www.ifmed.uniba.sk/studium/doktorandske-studium/akreditacia-2022-phd/studijny-odbor-vseobecne-lekarstvo/normalna-a-patologicka-fyziologia/>

- b) The institution indicates the professions for which the graduate is prepared at the time of completion and the potential of the study programme from the point of view of graduate's employability.

The graduate of the study program will find employment at all universities where this study program is taught or in medical institutions, as well as in various scientific institutions. After completing the doctoral study, the graduate can obtain the rank of associate professor or professor, or Doctor of Science in the relevant profession.

- c) Relevant external stakeholders who have provided the statement or a favourable opinion on the compliance of the acquired qualification with the sector-specific requirements for the profession<sup>8</sup>.

Statement of the Ministry of Health of the Slovak Republic on the proposal for the implementation of the study program general medicine within the regulated profession in the field of general medicine.

## 3. Employability

- a) Evaluation of the study programme graduate's employability.

The study program ensures the high-quality employment of graduates in the domestic and foreign environments, especially in the medical and non-medical fields.

Link to feedback of JFM CU graduates: <https://www.ifmed.uniba.sk/studium/studenti/absolventska-spaetna-vaezba/>

Link to the overview of employment of graduates of the Ministry of Labour, Social Affairs and Family of the Slovak Republic - <https://www.uplatnenie.sk/>

- b) If applicable, indicate the successful graduates of the study programme.

prof. MUDr. Albert Stránsky, CSc., Former Head of the Institute for English-language Education, JFM CU

prof. MUDr. Ján Jakuš, PhD., Head of the Institute of Medical Biophysics JFM CU

prof. MUDr. Michal Javorka, PhD., Prof. MUDr. Ingrid Tonhajzerová, PhD., Prof. MUDr. Daniela Mokrá, PhD., Professors at the Institute of Physiology

prof. MUDr. Andrea Čalkovská, DrSc., Head of the Institute of Physiology, JFM CU, Dean of JFM CU, Slovak of the Year in the category of science and research

prof. MUDr. Renata Péčková, PhD., Head of the Institute of Pathological Physiology, JFM CU

prof. MUDr. Jana Plevková, PhD., Head of the Center for Medical Education JFM CU

doc. RNDr. Mariana Brozmanová, PhD., Head of the Central animal facility JFM CU

- c) Evaluation of the study programme quality by employers (feedback).

Employers regularly participate in graduate evaluations. At the same time, their representatives participate in the preparation and modification of the curriculum of the study program within the Council of the study program.

<https://www.ifmed.uniba.sk/studium/studenti/spaetna-vaezba-zamestnavatelov/>

## 4. Structure and content of the study programme<sup>9</sup>

- a) The institution describes the rules for the design of study plans within the study programme.

<sup>7</sup> Learning objectives are achieved in the study programme through measurable learning outcomes in individual parts (modules, subjects) of the study programme corresponding to the relevant level of the Qualifications Framework in the European Higher Education Area.

<sup>8</sup> In the case of regulated professions in accordance with the requirements for the acquisition of professional competence pursuant to a special regulation.

<sup>9</sup> Selected characteristics of the content of the study programme can be stated directly in the Course information sheets or supplemented by the information of the Course information sheets.

The study program considers the mission, but also the goals set by Jessenius Faculty of Medicine Comenius University (JFM CU) in the field of science and research (from page 9 in the Long-term plan of JLF UK) and in the field of education (from page 5 in the long-term plan of JLF UK). The study program was created and innovated in the intentions of the development trends of this kind of programs in Europe and in the world, considering the attractiveness for high school students.

The study program was created in accordance with the needs of practice; therefore, one of the main aspects in the design of subjects was the aspect of applicability of knowledge and competencies in real practice.

In terms of strategic goals in the field of international activities (page 12 of the project), the program and its study plan were designed so that students can complete part of their studies abroad while studying this study program, in which the faculty has extensive experience and a wide network of partner universities with related study programs for the submitted study program.

In accordance with the Dublin descriptors and at the same time in accordance with the national qualification framework, the graduates of the SP will obtain the 8th level of qualification (SKKR 8) - <https://www.kvalifikacie.sk/katalog-skr>.

Mission of JFM CU: <https://www.ifmed.uniba.sk/fakulta/poslanie-a-historia/>

Long-term development plan of JFM CU in Martin for the years 2021–2027:

[https://www.ifmed.uniba.sk/fileadmin/jlf/Dekanat/Sekretariat/Rozne/Dlhodoby\\_zamer\\_JLF\\_UK\\_2021-2027\\_finalna\\_verzia.pdf](https://www.ifmed.uniba.sk/fileadmin/jlf/Dekanat/Sekretariat/Rozne/Dlhodoby_zamer_JLF_UK_2021-2027_finalna_verzia.pdf)

The study plan is prepared in accordance with the procedures specified in the Internal Quality Assurance System of Higher Education of Comenius University in Bratislava (Internal Regulation of CU No. 23/2021) within the cooperation of the Study Program Council with all subject guarantors at respective departments and clinics.

Link to IR CU No. 23/2021 - <https://uniba.sk/uploads/media/Vp2021-23.pdf>

b) *The institution compiles the recommended study plans for individual study paths<sup>10</sup>.*

The recommended study plan was prepared and approved within the Study Program Council, while the guarantors of individual courses, employers and students also commented on it. The proposal is in accordance with Decree No. 614/2002 Coll. on the study credit system and Act No. 131/2002 Coll. on Higher Education Institutions and on Amendments to Certain Acts.

<https://www.ifmed.uniba.sk/studium/doktorandske-studium/akreditacia-2022-phd/studijny-odbor-vseobecne-lekarstvo/normalna-a-patologicka-fyziologia/>

c) *The study plan generally states:*

- *individual parts of the study programme (modules, courses, and other relevant school and extracurricular activities, if they contribute to the achievement of the required learning outcomes and allow to obtain credits) in the structure of compulsory, compulsory optional and optional courses,*

The study program consists of compulsory subjects, profile subjects are included in compulsory subjects in this study program. All graduates of the study program will acquire knowledge, skills and attitudes corresponding to the profile of the graduate. The educational activities used are listed in the study plan and in the information sheet of the course. The educational activity is carried out in person. Credits are allocated to individual subjects and activities. The persons securing the subject are listed in the information sheets of the subject. The learning outcomes and related criteria and the rules for their evaluation so that all the educational goals of the study program are met are listed in the Course Information Sheets. The teaching of individual subjects takes place at the workplaces of the guarantors of the subject.

Link to information sheets: <https://www.ifmed.uniba.sk/studium/doktorandske-studium/akreditacia-2022-phd/studijny-odbor-vseobecne-lekarstvo/normalna-a-patologicka-fyziologia/>

Link to study plan: <https://www.ifmed.uniba.sk/studium/doktorandske-studium/akreditacia-2022-phd/studijny-odbor-vseobecne-lekarstvo/normalna-a-patologicka-fyziologia/>

Link to IR JFM CU No. 13/2020 - [https://www.ifmed.uniba.sk/fileadmin/jlf/Dekanat/Sekretariat/Legislativa/Rok\\_2020/VP\\_2020\\_13.pdf](https://www.ifmed.uniba.sk/fileadmin/jlf/Dekanat/Sekretariat/Legislativa/Rok_2020/VP_2020_13.pdf)

d) *The institution states the number of credits, the achievement of which is a condition for proper completion of studies and other requirements that the student must meet within the study programme and for its proper completion, including the requirements for state examinations, rules for re-study and rules for the extension, interruption of study.*

The minimum number of credits for the entire study that the student must obtain for its successful completion is 240 credits. The number of credits for state exams is 50 credits. The subjects of the state exams are part of the study plan and the credits obtained for these subjects will be added to the student only after their successful completion.

Detailed conditions for the proper completion of studies and other conditions that the student must meet during the study program and for its proper completion are specified in the Study Regulations of JLF UK (Internal Regulation No. 13/2020).

Link to study plan: <https://www.ifmed.uniba.sk/studium/doktorandske-studium/akreditacia-2022-phd/studijny-odbor-vseobecne-lekarstvo/normalna-a-patologicka-fyziologia/>

([https://www.ifmed.uniba.sk/fileadmin/jlf/Dekanat/Sekretariat/Legislativa/Rok\\_2020/VP\\_2020\\_13.pdf](https://www.ifmed.uniba.sk/fileadmin/jlf/Dekanat/Sekretariat/Legislativa/Rok_2020/VP_2020_13.pdf)).

e) *For individual study plans, the institution states the requirements for completing the individual parts of the study programme and the student's progress within the study programme in the given structure:*

- *number of credits for compulsory subjects required for proper completion of studies / completion of part of studies: 30*
- *number of credits for the final thesis and defense of the final thesis required for the proper completion of the study: 30*

Link to study plan: <https://www.ifmed.uniba.sk/studium/doktorandske-studium/akreditacia-2022-phd/studijny-odbor-vseobecne-lekarstvo/normalna-a-patologicka-fyziologia/>

f) *The institution describes the rules for verification of learning outcomes, student's assessment and the possibilities of appealing against the assessment.*

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<sup>10</sup> In accordance with Decree no. 614/2002 Coll. on the study credit system and Act no. 131/2002 Coll. on Higher Education Institutions and on Amendments to Certain Acts.

The individual methods of evaluation of study results are designed to clearly determine the required conditions for passing the course. The student is acquainted with the deadlines in time. Details are regulated by the study regulations of the faculty.

Link to IR JFM CU No. 13/2020 - [https://www.ifmed.uniba.sk/fileadmin/jlf/Dekanat/Sekretariat/Legislativa/Rok\\_2020/VP\\_2020\\_13.pdf](https://www.ifmed.uniba.sk/fileadmin/jlf/Dekanat/Sekretariat/Legislativa/Rok_2020/VP_2020_13.pdf)).

g) *Conditions for recognition of studies or a part of studies.*

The conditions of the control stages of the study, the conditions of recognition of subjects, the conditions for the performance of state examinations and the subjects of state examinations are regulated by the study regulations of the university and faculty.

Link to IR JFM CU No. 13/2020 - [https://www.ifmed.uniba.sk/fileadmin/jlf/Dekanat/Sekretariat/Legislativa/Rok\\_2020/VP\\_2020\\_13.pdf](https://www.ifmed.uniba.sk/fileadmin/jlf/Dekanat/Sekretariat/Legislativa/Rok_2020/VP_2020_13.pdf)).

h) *The institution states the topics of final theses of the study programme (or a link to the list).*

The topics of final theses are published annually on the website of the faculty and within the Academic Information System.

Link to Academic Information System: <https://ais2.uniba.sk/ais/start.do>

<https://www.ifmed.uniba.sk/studium/doktorandske-studium/>

<https://www.ifmed.uniba.sk/studium/doktorandske-studium/prijimacie-pohovory-na-phd-v-ar-20222023/>

[https://www.ifmed.uniba.sk/fileadmin/jlf/Dekanat/referat-doktorandskeho-studia/Prijimacie\\_pohovory\\_2022\\_2023/TEMY\\_dokt\\_diz\\_prac\\_2022-2023.pdf](https://www.ifmed.uniba.sk/fileadmin/jlf/Dekanat/referat-doktorandskeho-studia/Prijimacie_pohovory_2022_2023/TEMY_dokt_diz_prac_2022-2023.pdf)

i) *The institution describes or refers to:*

- *rules for the assignment, processing, opposition, defense and evaluation of final theses in the study programme,*

These rules are specified in Art. 14 of the Study Regulations of JFM CU (IR JFM CU No. 13/2020). Approval of diploma theses and supervisors based on conditions specified in IR CU no. 23/2021 Internal quality assurance system of higher education at Comenius University in Bratislava in the fifth part (Articles 49 to 53).

Link to VP JLF UK no. 13/2020 - [https://www.ifmed.uniba.sk/fileadmin/jlf/Dekanat/Sekretariat/Legislativa/Rok\\_2020/VP\\_2020\\_13.pdf](https://www.ifmed.uniba.sk/fileadmin/jlf/Dekanat/Sekretariat/Legislativa/Rok_2020/VP_2020_13.pdf)

Link to VP UK no. 23/2021 - <https://uniba.sk/uploads/media/Vp2021-23.pdf>

- *opportunities and procedures for participation in student mobility,*

These options and procedures are published on the faculty website in the International Relations section.

Link to website – JFM CU: <https://www.ifmed.uniba.sk/fakulta/medzinarodne-vztahy/>

Link to website - CU: <https://uniba.sk/medzinarodne-vztahy/>

- *rules for adherence to academic ethics and rules for drawing consequences,*

These procedures are the responsibility of the Disciplinary Commissions for students of the faculty and university, as well as the Ethics Council of Comenius University. Ethical principles in educational and scientific and research activities as well as the consequences of their violation are defined in the eighth part of the internal regulation No. 23/2021 (Internal Quality Assurance System of Higher Education of Comenius University in Bratislava) - Code of Ethics and Rules of Creative Activity of Comenius University).

Disciplinary Code of JFM CU for students (Internal Regulation of JFM CU No. 30/2018):

[https://www.ifmed.uniba.sk/fileadmin/jlf/Dekanat/Sekretariat/Legislativa/Rok\\_2018/2018\\_30\\_Disciplinarny\\_poriadok.pdf](https://www.ifmed.uniba.sk/fileadmin/jlf/Dekanat/Sekretariat/Legislativa/Rok_2018/2018_30_Disciplinarny_poriadok.pdf)

Disciplinary Commission of JFM CU - composition: <https://www.ifmed.uniba.sk/fakulta/organizacna-struktura/disciplinarna-komisia/>

Disciplinary Code of Comenius University in Bratislava for students (Internal Regulation No. 13/2018):

[https://uniba.sk/fileadmin/ruk/legislativa/2018/Vp\\_2018\\_13.pdf](https://uniba.sk/fileadmin/ruk/legislativa/2018/Vp_2018_13.pdf)

Rules of Procedure of the Disciplinary Commission of Comenius University in Bratislava for students (Internal Regulation No. 14/2018):

[https://uniba.sk/fileadmin/ruk/legislativa/2018/Vp\\_2018\\_14.pdf](https://uniba.sk/fileadmin/ruk/legislativa/2018/Vp_2018_14.pdf)

Code of Ethics of Comenius University in Bratislava (Internal Regulation No. 23/2016 - full text in IR CU No. 16/2017):

[https://uniba.sk/fileadmin/ruk/legislativa/2017/Vp\\_2017\\_16.pdf](https://uniba.sk/fileadmin/ruk/legislativa/2017/Vp_2017_16.pdf)

Ethical Council of Comenius University: <https://uniba.sk/o-univerzite/organy-uk/eticka-rada-uk/>

Rules of Procedure of the Ethical Council of Comenius University (Internal Regulation No. 24/2016):

[https://uniba.sk/fileadmin/ruk/legislativa/2016/Vp\\_2016\\_24.pdf](https://uniba.sk/fileadmin/ruk/legislativa/2016/Vp_2016_24.pdf)

Code of Ethics as a Part of the Internal Quality Assurance System of Higher Education of Comenius University in Bratislava (VP No.

23/2021): <https://uniba.sk/uploads/media/Vp2021-23.pdf>

- *procedures applicable to students with special needs,*

The Comenius University in Bratislava has a Support Centre for Students with Special Needs. The centre provides information, counselling, support services and educational activities for applicants and students with special needs, teachers and the general public. At the faculty level, there is a coordinator for the support of students with special needs and assesses the possibilities / limitations / and degree of risk of the study of the relevant study program for students with special needs. It proposes specific appropriate adjustments and support services for students with special needs and performs counselling and mediation activities. Participates in the creation of a special system of hybrid education and support for students with special needs.

In addition, there is a specially designated person at JFM CU who is responsible for addressing the requirements and needs of JFM CU applicants and students with specific needs. An applicant with special needs, who requires appropriate adjustments and support services during the entrance examination, sends, together with the application for the study, a request to adapt the form of the entrance examination with a specification of the required adjustments and support services, accompanied by the relevant professional documentation.

Coordinator for working with applicants and students with special needs:

Mgr. Ľubica Bánovčinová, PhD. phone: 043/2633 429 e-mail: [lubica.banovcinova@uniba.sk](mailto:lubica.banovcinova@uniba.sk)

The competencies of study counsellors are defined in the fourth section (Study counsellors and coordinators for students with special needs, Art. 41) IR CU No. 23/2021 (Internal quality assurance system of higher education Comenius University in Bratislava).

Information for students with special needs published on the website of JFM CU:

<https://www.ifmed.uniba.sk/studium/podpora-studentov-so-specifickymi-potrebami/>

Centre for support of students with special needs UK:

<https://uniba.sk/o-univerzite/rektorat-uk/oddelenie-socialnych-sluzieb-a-poradenstva-oss/centrum-podpory-studentov-so-specifickymi-potrebami-cps/>

Internal regulation No. 23/2014 - Directive of the Rector of Comenius University in Bratislava to ensure a generally accessible academic environment for students with special needs - [https://uniba.sk/fileadmin/ruk/legislativa/2014/Vp\\_2014\\_23.pdf](https://uniba.sk/fileadmin/ruk/legislativa/2014/Vp_2014_23.pdf)

Link to IR CU No. 23/2021 - <https://uniba.sk/uploads/media/Vp2021-23.pdf>

- *procedures for filing complaints and appeals by students.*

These procedures are regulated by the JFM CU Study Regulations (IR JFM CU No. 13/2020) in the fourth part - Proceedings in matters of academic rights and obligations: [https://www.ifmed.uniba.sk/fileadmin/ijf/Dekanat/Sekretariat/Legislativa/Rok\\_2020/VP\\_2020\\_13.pdf](https://www.ifmed.uniba.sk/fileadmin/ijf/Dekanat/Sekretariat/Legislativa/Rok_2020/VP_2020_13.pdf)

## 5. Course information sheets of the study programme

*In the structure according to Decree no. 614/2002 Coll.*

Information sheets of all courses are published on the faculty website on the page designated for this study program with the following <https://www.ifmed.uniba.sk/studium/doktorandske-studium/akreditacia-2022-phd/studijny-odbor-vseobecne-lekarstvo-normalna-a-patologicka-fyziologia/>

## 6. Current academic year plan and current schedule (or hyperlink).

The schedule of the current academic year is available on the faculty's website:

<https://www.ifmed.uniba.sk/studium/doktorandske-studium/>

## 7. Persons responsible for the study programme

- A person responsible for the delivery, development, and quality of the study programme (indicating the position and contact details).  
prof. MUDr. Andrea Čalkovská, DrSc., professor, Department of Physiology JFM CU, Head,  
[andrea.calkovska@uniba.sk](mailto:andrea.calkovska@uniba.sk)
- List of persons responsible for the profile courses of the study programme with the assignment to the course and provided with a link to the central Register of university staff and with contact details (they may also be listed in the study plan).

the profile courses:

prof. MUDr. Andrea Čalkovská, DrSc., [andrea.calkovska@uniba.sk](mailto:andrea.calkovska@uniba.sk), <https://www.portalvs.sk/regzam/detail/5344>, normal and pathological physiology 1; normal and pathological physiology 2  
prof. MUDr. Michal Javorka, PhD., [michal.javorka@uniba.sk](mailto:michal.javorka@uniba.sk), <https://www.portalvs.sk/regzam/detail/5351>, normal and pathological physiology 1; normal and pathological physiology 2  
prof. MUDr. Renata Pěčová, PhD., [renata.pecova@uniba.sk](mailto:renata.pecova@uniba.sk), <https://www.portalvs.sk/regzam/detail/3520>, normal and pathological physiology 1; normal and pathological physiology 2

Next teachers of the profile courses:

prof. MUDr. Kamil Javorka, DrSc., [kamil.javorka@uniba.sk](mailto:kamil.javorka@uniba.sk), <https://www.portalvs.sk/regzam/detail/3582>, normal and pathological physiology 1; normal and pathological physiology 2  
prof. MUDr. Miloš Tatar, CSC., [milos.tatar@uniba.sk](mailto:milos.tatar@uniba.sk), <https://www.portalvs.sk/regzam/detail/5348>, normal and pathological physiology 1; normal and pathological physiology 2  
prof. MUDr. Daniela Mokrá, PhD., [daniela.mokra@uniba.sk](mailto:daniela.mokra@uniba.sk), <https://www.portalvs.sk/regzam/detail/3584>, normal and pathological physiology 1; normal and pathological physiology 2  
prof. MUDr. Jana Plevková, PhD., [jana.plevkova@uniba.sk](mailto:jana.plevkova@uniba.sk), <https://www.portalvs.sk/regzam/detail/3523>, normal and pathological physiology 1; normal and pathological physiology 2  
prof. MUDr. Ingrid Tonhajzerová, PhD., [ingrid.tonhajzerova@uniba.sk](mailto:ingrid.tonhajzerova@uniba.sk), <https://www.portalvs.sk/regzam/detail/3583>, normal and pathological physiology 1; normal and pathological physiology 2  
doc. RNDr. Mariana Brozmanová, PhD., [mariana.brozmanova@uniba.sk](mailto:mariana.brozmanova@uniba.sk), <https://www.portalvs.sk/regzam/detail/3521>, normal and pathological physiology 1; normal and pathological physiology 2  
Mgr. Alžbeta Kráľová Trančíková, PhD., [alzbeta.trancikova@uniba.sk](mailto:alzbeta.trancikova@uniba.sk), <https://www.portalvs.sk/regzam/detail/23070>, normal and pathological physiology 1; normal and pathological physiology 2  
RNDr. Pavol Mikolka, PhD., [pavol.mikolka@uniba.sk](mailto:pavol.mikolka@uniba.sk), <https://www.portalvs.sk/regzam/detail/24992>, normal and pathological physiology 1; normal and pathological physiology 2

- Reference to the research/art/teacher profiles of persons responsible for the profile courses of the study programme. The scientific and pedagogical characteristics of profile subject teachers (three profile subject teachers and other profile subject teachers) are available at the faculty.

Link to RAMP: <https://www.ifmed.uniba.sk/studium/doktorandske-studium/akreditacia-2022-phd/studijny-odbor-vseobecne-lekarstvo-normalna-a-patologicka-fyziologia/>

Link to AIS2: <https://moja.uniba.sk>

- List of teachers of the study programme with the assignment to the course and provided with a link to the central Register of university staff and with contact details (may be a part of the study plan).

Mgr. Anna Barnau, PhD., [anna.barnau@uniba.sk](mailto:anna.barnau@uniba.sk), [www.portalvs.sk/regzam/detail/23045](http://www.portalvs.sk/regzam/detail/23045): Foreign language  
prof. MUDr. Tibor Baška, PhD., [tibor.baska@uniba.sk](mailto:tibor.baska@uniba.sk), <https://www.portalvs.sk/regzam/detail/3589>: The methodology of scientific work  
doc. MUDr. Ing. RNDr. Peter Celec, DrSc., MPH, [peter.celec@uniba.sk](mailto:peter.celec@uniba.sk), <https://www.portalvs.sk/regzam/detail/3113>: The methodology of scientific work  
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PhDr. Božena Džuganová, PhD., [bozena.dzukanova@uniba.sk](mailto:bozena.dzukanova@uniba.sk), [www.portalvs.sk/regzam/detail/3594](http://www.portalvs.sk/regzam/detail/3594): Foreign language  
doc. Mgr. Marián Grendár, PhD., [marian.grendar@uniba.sk](mailto:marian.grendar@uniba.sk), [www.portalvs.sk/regzam/detail/11360](http://www.portalvs.sk/regzam/detail/11360): The basics of statistical analysis  
prof. MUDr. Michal Javorka, PhD., [michal.javorka@uniba.sk](mailto:michal.javorka@uniba.sk), [www.portalvs.sk/regzam/detail/5351](http://www.portalvs.sk/regzam/detail/5351): The methodology of scientific work  
Mgr. Desana Kiselová, [desana.kiselova@uniba.sk](mailto:desana.kiselova@uniba.sk), [www.portalvs.sk/regzam/detail/3596](http://www.portalvs.sk/regzam/detail/3596): Foreign language  
prof. RNDr. Ján Lehotský, DrSc., [jan.lehotsky@uniba.sk](mailto:jan.lehotsky@uniba.sk), [www.portalvs.sk/regzam/detail/5349](http://www.portalvs.sk/regzam/detail/5349): The methodology of scientific work  
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prof. MUDr. Dušan Meško, PhD., [dusan.mesko@uniba.sk](mailto:dusan.mesko@uniba.sk), [www.portalvs.sk/regzam/detail/5347](http://www.portalvs.sk/regzam/detail/5347): The methodology of scientific work  
prof. MUDr. František Novomeský, PhD., [frantisek.novomesky@uniba.sk](mailto:frantisek.novomesky@uniba.sk), [www.portalvs.sk/regzam/detail/5346](http://www.portalvs.sk/regzam/detail/5346): The methodology of scientific work  
prof. MUDr. Jana Plevková, PhD., [jana.plevkova@uniba.sk](mailto:jana.plevkova@uniba.sk), [www.portalvs.sk/regzam/detail/3523](http://www.portalvs.sk/regzam/detail/3523): The methodology of scientific work  
Ing. Ján Strnádel, PhD., [jan.strnadel@uniba.sk](mailto:jan.strnadel@uniba.sk), [www.portalvs.sk/regzam/detail/25883](http://www.portalvs.sk/regzam/detail/25883): The methodology of scientific work  
prof. MUDr. Ján Švihra, PhD., [jan.svihra@uniba.sk](mailto:jan.svihra@uniba.sk), [www.portalvs.sk/regzam/detail/3606](http://www.portalvs.sk/regzam/detail/3606): The methodology of scientific work

- e) List of the supervisors of final theses with the assignment to topics (indicating the contact details).  
The supervisors of the final theses are determined, and the topics of the final theses are approved by the guarantor of the relevant profile subject based on the decision of the RŠP. The topics of final theses with the names of supervisors are regularly updated and published on the faculty's website and in the AIS Academic Information System.  
Link to AIS2: <https://moja.uniba.sk>  
Link to the list of final theses: [Akreditácia 2022 PhD \(uniba.sk\)](https://www.uniba.sk/akreditacia-2022-phd)
- f) Reference to the research/art/teacher profiles of the supervisors of final theses.  
Reference to the research/art/teacher profiles are on the web of the JFM CU:  
<https://www.jfmed.uniba.sk/studium/doktorandske-studium/akreditacia-2022-phd/studijny-odbor-vseobecne-lekarstvo/normalna-a-patologicka-fyziologia/>
- g) Student representatives representing the interests of students of the study programme (name and contact details).  
MUDr. Janka Jakušová, [janka.jakusova@uniba.sk](mailto:janka.jakusova@uniba.sk) – personal meeting by email agreement
- h) Study advisor of the study programme (indicating contact details and information on the access to counselling and on the schedule of consultations).  
1. Prof. MUDr. Michal Javorka, PhD., [michal.javorka@uniba.sk](mailto:michal.javorka@uniba.sk) – study advisor - personal meeting by agreement  
2. Prof. MUDr. Renata Pěčová, PhD., [renata.pecova@uniba.sk](mailto:renata.pecova@uniba.sk) – study advisor - personal meeting by agreement
- i) Other supporting staff of the study programme – assigned study officer, career counsellor, administration, accommodation department, etc. (with contact details).  
The administrative agenda and basic counselling for students in the field of study and social security are provided by the staff of the Doctoral Study Department. Students can contact them during office hours published on the website, or during standard business hours, by phone or at any time electronically via e-mail. Communication from assigned university e-mail addresses is preferred.  
Referent: Eva Andrisová, tel. 043/2633 326, e-mail: [eva.andrisova@uniba.sk](mailto:eva.andrisova@uniba.sk)  
Referent: Mgr. Miroslava Mužilová, tel. 043/2633 199, e-mail: [miroslava.muzilova@uniba.sk](mailto:miroslava.muzilova@uniba.sk)  
More about doctoral study department: <https://www.jfmed.uniba.sk/studium/doktorandske-studium/>

#### Accommodation department and canteen

The JFM CU university dormitory is a purpose-built facility of the Comenius University in Bratislava at the Jessenius Faculty of Medicine in Martin. The allocation of accommodation in accommodation facilities is regulated by the Directive of the Rector of Comenius University in Bratislava. Current and newly admitted CU students submit electronic applications for accommodation through E-accommodation.

Contacts for accommodation department and dining room:

Director of university dormitory:

PhDr. Jana Seryjová, phone: (043) 2633501, e-mail: [jana.seryjova@uniba.sk](mailto:jana.seryjova@uniba.sk)

Deputy Director, Financial and Economic Department

Ing. Paula Plešková, phone: (043) 2633502, e-mail: [paula.pleskova@uniba.sk](mailto:paula.pleskova@uniba.sk)

Accommodation department

Andrea Šimková, phone: (043) 2633503, e-mail: [andrea.simkova@uniba.sk](mailto:andrea.simkova@uniba.sk)

Health and safety technician

Jaroslava Stoláriková, phone: (043) 2633513, e-mail: [jaroslava.stolarikova@uniba.sk](mailto:jaroslava.stolarikova@uniba.sk)

Head of the student canteen

Babeta Kašovičová, phone: (043) 2633511, e-mail: [babeta.kasovicova@uniba.sk](mailto:babeta.kasovicova@uniba.sk)

More about the university dormitory and canteen can be found at <https://www.jfmed.uniba.sk/pracoviska/ucelove-pracoviska/vysokoskolsky-internat-a-jedalen/>

## 8. Spatial, material, and technical provision of the study programme and support

- a) List and characteristics of the study programme classrooms and their technical equipment with the assignment to learning outcomes and courses (laboratories, design and art studios, studios, workshops, interpreting booths, clinics, priest seminaries, science and technology parks, technology incubators, school enterprises, practice centres, training schools, classroom-training facilities, sports halls, swimming pools, sports grounds).

All JFMED facilities are well-arranged for high-quality teaching-learning process as well as for conducting scientific research activities. A significant stimulus for the modernization of the existing JFMED infrastructure was the successful implementation of projects co-financed by the Structural Funds. All theoretical (basic sciences), preclinical, and clinical workplaces have modern instrumentation, technical and material equipment. The accessible infrastructure makes it possible to obtain original results and provide modern educational, as well as scientific research activities for students and academic staff. Well-equipped JFMED infrastructure include, among others, modern communication technologies, audio-visual devices, and *didactic equipment for learning*. JFMED continues to develop IT technology by ensuring the widespread availability of the Internet for students and building a system of videoconferencing with the possibility of demonstrating medical interventions, including real-time surgery. In addition, specialized classrooms are furnished with education materials and accessories.

**Facilities and workplaces related to study program:** Educational and scientific research activities are carried out in the following medical facilities: Malá Hora 4, Malá Hora 4B, Malá Hora 4C, Malá Hora 4D and Malá Hora 5, Biomedical Centre Martin (BioMed Martin) and Facilities for non-medical study programs (Midwifery, Public Health, and Nursing). Clinical subjects and practice are dominantly provided in the University Hospital Martin. The majority of the Faculty facilities are located within the area of Malá Hora. This integral complex of facilities provide wide spectrum of opportunities for both educational a research activities and interdisciplinary cooperation. Educational activities and scientific sessions at JFMED take place at following locations: two lecture halls nearby the student dormitory, lecture hall at Mala Hora 4, lecture hall at Mala Hora 5, lecture hall in the Education Center in Mala Hora 4B, and two lecture halls at the University Martin Hospital. Since 2010, JFMED also has its own modern hall with a capacity of 476 seats. In addition, modern interactive education is provided and supported by Academic Information Center (since 2012) which also includes the Simulation Learning Center (currently called the Medical Education Support Center). This workplace is currently significantly expanded and strengthens its equipment, as well as staff capacity to

ensure the teaching and training of skills. For more detailed information please see: <https://www.jfmed.uniba.sk/en/departments/special-purpose-facilities/medical-education-support-center/>. In addition to abovementioned major education sites, every department use their own teaching rooms with relevant technical and multimedia support (Wifi connectivity, Interactive screens and whiteboards, personal computers, etc).

In addition to educational activities, the faculty is also intensively involved in the development of scientific research activities, including the activities of students. Facilities which are directly involved in research include Biomedical Centre Martin, the Center for Translational Medicine, the Center for Experimental and Clinical Respiratory and the Center of Excellence for Perinatal Research. For more detailed information please see: <https://www.jfmed.uniba.sk/en/departments/scientific-research-workplaces-and-centers>. Research-related activities are partly coordinated and supported by the Center for Science, Research and Development Support (so-called CEVED). For more detailed information please see: <https://www.jfmed.uniba.sk/pracoviska/ucelove-pracoviska/centrum-pre-podporu-vedy-vyskumu-a-vyvoja>

Overview of lecture halls, classrooms and seminar rooms:

Address	Type of educational infrastructure	Capacity	Department
Novomeského 7	Lecture hall A	172	All JFMED departments
	Lecture hall B	135	
Malá Hora 4B, 4C a 4D	Lecture hall Practical classrooms Labs Libraries Specialized classrooms	140	Pharmacology Microbiology and immunology Pathophysiology Public Health Medical biochemistry Physiology Molecular biology
Malá Hora 4	Lecture hall Autopsy room Labs Operating room Libraries	75	Anatomy Medical biophysics Medical biology Histology and Embryology
Malá Hora 5	Great lecture hall	104	Nursing Midwifery Foreign languages
	Small lecture hall	48	
	9 x Special classrooms	232	
	2 x Consulting rooms	50	
	Libraries Study rooms Rooms designed for learning <i>foreign languages</i>		
Kollárova 2 st. - Hospital	Great lecture hall	162	All JFMED clinical departments
	Small lecture hall	70	
	Seminar rooms		
	Libraries		
Novomeského 7A	Study room	122	All JFMED departments
	Simulation center	68	
	Digital classrooms		
Malá Hora 4A	Aula Magna (main hall)	476	All JFMED departments

For more detailed information please see: <https://www.jfmed.uniba.sk/en/departments/>

List of departments of the JFM CU equipped with unique laboratory technology

Department of Public Health	Atomic absorption spectrophotometer Microwave digestion system
Department of Medical Biochemistry	Liquid chromatography HPLC for proteomics DNA scanner Fast Real-Time PCR system Ultracentrifuge Nano-liquid chromatography
Department of Pathophysiology	Extracellular recording Patch clamp recording Calcium imaging
Department of Physiology	Hematology analyzer Surfactometer Nitric oxide analyzer
Department of Pharmacology	Combined spectro-fluoro-luminometer
Clinic of Radiology	Digital skiagraphy Various digital radiographic systems
Clinic of Gynecology and Obstetric	Various modern obstetric imaging
Clinic of Children and Adolescents	Modern ultrasound systems Confocal microscopy Modern endoscopic systems
Department of Pathological Anatomy	Biopsy scanner Fluorescence microscopy
Clinic of Urology	Modern ultrasound systems Modern endoscopic systems
Department of Medical Biology	Cell sorter Laser Microdissection
Department of Medical Biophysics	Micromanipulator KOPF INTRUM.2662
Clinic of Otorhinolaryngology and Head and Neck Surgery	Modern endoscopic systems Modern ultrasound systems

Department of Molecular Biology and Genomics	PCR systems Bioanalyzer systems Next-generation sequencing Comparative genomic hybridization Pyrosequencing
Clinic of Ophthalmology	Retinal camera
Department of Clinical Biochemistry	DNA and RNA isolation and analysis
Department of Hematology and Transfusiology	Flow cytometry Aggregometry Electrophoresis Thromboelastography
Department of Histology and Embryology	Confocal microscopy
Clinic of Neonatology	Various modern intensive care devices
Clinic of Gastroenterological Internal Medicine	Modern endoscopic systems Modern ultrasound systems
Clinic of Pneumology and Phthysiology	Polysomnography
Clinic of Neurosurgery	3D ultrasound
Biomedical Centre Martin BioMed Martin	Nuclear magnetic resonance (NMR) spectroscopy
Medical Education Support Center	Laparoscopy simulation Ultrasound simulation High-fidelity patient simulation Intensive care and resuscitation simulation Simulation in obstetrics Simulation of basic medical procedures Pediatric patient simulation

b) Characteristics of the study programme information management (access to study literature according to Course information sheets, access to information databases and other information sources, information technologies, etc.).

**Information delivery (library and information services) and access to study literature:** The Academic Library and Audio-visual Center of JFMED is a scientific-information, bibliographic, coordination and counselling workplace. The library provides library-related service in all study programs. Through its activities, it provides support for studies and education at the faculty, as well as scientific research activities. It provides services in accordance with the Library and Lending Regulations of the Library. It also follows the methodological guidelines and instructions of the Academic Library of Comenius University (CU), the instructions and methodologies of the Center for Scientific and Technical Information of the Slovak Republic, and internal regulations of the JFMED dean. As part of the information provision of study fields, it provides students with library and information services in order to meet the educational, scientific-research, social and cultural needs of:

- Lending services - attendance and interlibrary services
- Access to the online catalogue - building and access to the comprehensive online catalogue of the CU. Access to the library collection is via the CU online catalogue and via the JFMED library website: <http://alis.uniba.sk:8088/search/query?locale=en&theme=Katalog>
- Access to compulsory and recommended literature - compulsory and recommended literature is updated annually on the basis of documents from JFMED teaching staff and information sheets of individual subjects: <https://www.ifmed.uniba.sk/en/departments/information-workplaces/kniznica/obligatory-and-recommended-study-literature/>
- Special services - search services from own library funds
- Purchase of a library fund (acquisition) - special attention is paid to supplementing the basic and recommended study literature. The active participation of users is also used and, based on their proposals, the purchase of professional medical literature is carried out. The JFMED fund consists of specialized medical literature for the study programs: general medicine, dentistry and non-medical study program. The fund consists of sets of scientific medical material (scientific journals, books, textbooks, etc.)
- Bibliographic registration and storage of PhD. and diploma theses - access to information
- Publication database - access to the online catalogue of publication activities: <http://alis.uniba.sk:9909/search/query?locale=en&theme=EPC> Publishing activity is registered online through a nationwide database CREPČ2 (central register of publication evidence). The CREPČ2 database records bibliographic records such as publications and citations. The database allows independence from library formats, social rights and rules for users, as well as internal control in the creation of entities and records at all universities in Slovakia. Unification of records for one publication within the authors of the Slovak Republic, visibility of cooperation of university authors, mapping of scientific results of university staff and comparison of scientific disciplines at the national level: <https://app.crepc.sk/?seo=CREP%C4%8C-H%C4%BEadanie&fn=AdvancedSearchChildQ1BH3D>

At present, the academic library provides access to the information provision of study programs based on library and information processes, which are fully automated through the VIRTUA library information system and the CREPČ2 register.

**Access to information databases and other information resources:** The Academic Library provides access to licensed electronic information resources (EIR) which are made available within the NISPEZ project. Access to EIR is possible via computers connected to the JFMED network or via remote access to CU information resources also from computers connected outside the CU network. Faculty library offers the services of a digital study room, which is equipped with computers with internet access, access to CU catalogues, and electronic information sources. Students have access to the study rooms daily and on weekends and public holidays from 7.00 am until 10.00 pm. To obtain EIR, JFMED library provides access to the information databases listed at <https://uniba.sk/en/about/faculties-and-units/comenius-university-academic-library/external-electronic-information-resources>.

Academic Library and Audio-visual Center of JFMED website: <https://www.ifmed.uniba.sk/en/departments/information-workplaces/kniznica/>

**Information technologies at JFMED:** JFMED utilize for its activities information and communication technologies (ICT) focused on administrative tasks, operations, science and research, study, teaching support, testing, e-learning and video conferencing, web presentation,



user support, digitization, printing, and survey forms processing. ICT also cover purchase and repair of hardware and software, operation, management and monitoring of computer networks, data centers, user terminals, access control systems, and security and camera systems. ICT is provided by the Department of information technology <https://www.ifmed.uniba.sk/en/departments/information-workplaces/department-of-information-technology>. Department of information technology cooperates with the Center for Information Technologies of the CU. The connection of the university with the faculties at the ICT level is ensured by the organizational structure of the technical and academic administrators of the Integrated Information and Communication System. For more detailed information please see: <https://uniba.sk/en/about/faculties-and-units/cit/>

**Information systems at JFMED:** Information systems are managed by the Ministry of Education, Science, Research and Sport of the Slovak Republic, Comenius University, and JFMED. The most important parts of information system include:

- Financial informative system SAP/Sofia
- Academic information system AIS2 <https://moja.uniba.sk/?lang=en>
- CMS Typo3 for JFMED website and other related issues <https://www.ifmed.uniba.sk/en/>
- Cloud system <https://owncloud.ifmed.uniba.sk/owncloud/index.php/login>
- Library system VTLs/VIRTUA <https://www.ifmed.uniba.sk/en/departments/information-workplaces/kniznica/>
- Central personal database
- Backup systems
- Camera surveillance systems
- Suite of software products for computer systems management (ZEN works, TeamViewer)
- Systems for network print and network services
- Science and research-related systems and technologies (PACS, SYNGOVIA)
- Systems for entrance exams

**Information systems services:** E-mail and Office365 – all JFMED employees and students with mailbox capacity of 50 GB. Office365 is a cloud service provided by the Microsoft Corporation. It offers e-mail, calendar, communication tools and online version of office package Office. Thanks to Office365 account, students and teachers have an opportunity to download and use supplement services of Microsoft, such as download and install the Office package. The address is in the form *univerzitnylogin@uniba.sk*. For employees also in the form *name.surname@uniba.sk*, *name.lastname@ifmed.uniba.sk* and *surname@ifmed.uniba.sk*. The address and mailbox will remain with them even after the end of employment or study. The official e-mail communication of the university, messages from the AIS system or from the university's e-learning system are delivered to this mailbox. Information on how to access the mailbox or how to redirect it to another address can be found at <https://moja.uniba.sk/?lang=en> (University E-mail Office 365). Automatic and optimized mailing lists and groups are created for the purpose of mass mailing to department heads, teachers, researchers, PhD students and students. In addition to e-mail, other services are available that simplify document handling and support group collaboration such as SharePoint for file sharing within the UC, OneDrive - 5TB document cloud storage per user, MS Teams for distance learning and online communication, Office 365 online (Word, Excel, PowerPoint, Access, etc.), and Office 365 offline.

**Faculty website:** The website <https://www.ifmed.uniba.sk/en/> uses the university-wide CMS Typo3 to create the faculty's website and its workplaces. Each workplace has a web editor who updates the relevant pages online. JFMED was the first faculty of CU to use a new web interface. Department of information technology participates in the technical implementation and administration of websites for feedback, surveys and conferences organized by individual departments of the faculty. For the needs of a more attractive presentation of the JFMED environment, a virtual tour of the premises was created <https://www.ifmed.uniba.sk/en/virtual-tour>. Department of information technology also participates in the technical implementation and administration of websites for feedback, surveys and conferences organized by individual departments of the faculty. For better presentation and communication to the public, applicants and students. Other important a specific website related to JFMED include:

- JFMED and PRESS: <https://www.ifmed.uniba.sk/press/>
- JFMED promotional videos and application process: <https://www.ifmed.uniba.sk/en/study/applicants/application-process/>
- Social media and podcasting
  - [https://m.facebook.com/Jessenius.Faculty.Medicine/?\\_rdr](https://m.facebook.com/Jessenius.Faculty.Medicine/?_rdr)
  - <https://twitter.com/jlfukmartin>
  - <https://www.instagram.com/comenius.university/>
  - <https://www.youtube.com/channel/UCGkPZYRYSW--pt4VJ1uYQ>
  - <https://www.linkedin.com/company/jlfukmartin>
  - <https://jessenius.podbean.com/>
  - <https://open.spotify.com/show/5JONvXxOwifJvMnPNQ4Js>
  - <https://podcasts.apple.com/sk/podcast/jessenius-podcast-jesseniovej-lek%C3%A1rskej-fakulty-uk/id1501833750>
  - <https://www.ifmed.uniba.sk/fakulta/marketing/rss-služba/>

c) Characteristics and extent of distance education applied in the study programme with the assignment to courses. Access, manuals of e-learning portals. Procedures for the transition from contact teaching to distance learning.

JFMED has been paying special attention to the issue of e-learning for a long time. During the COVID-19 pandemic the teaching has been delivered remotely. The activities of the JFMED in the field of e-learning are divided into the following areas:

- Electronic creation and distribution of teaching materials
- Videoconferences <https://www.ifmed.uniba.sk/en/departments/information-workplaces/department-of-information-technology/it-services/videoconferences>
- Distance education <https://www.ifmed.uniba.sk/distančne-vzdelavanie/>

**Videoconferencing systems** are used for online live transmissions of surgeries to the auditorium for students, doctors and PhD students within the e-learning education system. The use of videoconferencing equipment enables the online transmission of demanding surgical interventions to the premises where professional events and teaching take place. The faculty also has a new Cisco Telepresence facility. These devices are used not only for e-learning, but also for the transmission of training and video conferencing meetings with the CU management. The transfer of training and meetings has a direct economic benefit in reducing the need to traveling to Bratislava. The

videoconferencing system was expanded with a new state-of-the-art TP20 Cisco IX5000 device at the JFMED Dean's Office. Telepresence room serves for effective and multipurpose communication <https://www.tp.cvtisr.sk/>. It is also used for online transmissions of trainings and meetings from RUK in Bratislava and for connections via other video conferencing programs - such as a display unit for Skype, Google Meet, Zoom, Microsoft Teams and others - thus providing comfortable communication thanks to three large screens. It also proved successful in connections within domestic and international scientific conferences and especially in state examinations carried out in the distance form, which had to be carried out in connection with security measures associated with the worsened epidemiological situation (coronavirus COVID-19). All videoconferencing facilities are used to increase the quality of education, intensify national and international cooperation and communication with the world, online mediation of conferences, special diagnostic and therapeutic procedures with the possibility of consultations. The faculty also has a unique 3D video conferencing system.

**Distance education** (including distance exams) is implemented at the faculty mainly through the Microsoft Teams program. In cooperation with CU, a manual was developed, which is published on the faculty website <https://www.jfmed.uniba.sk/en/departments/information-workplaces/department-of-information-technology/it-services/online-komunikacia>. Department of information technology provide 24/7 technical support. Distance learning is constantly being improved and enriched with new elements by connecting software and hardware (connecting an electron microscope or ultrasound to live online learning via Microsoft Teams). We also use the above technique in the organization of webinars <https://webinar.jlfuk.sk>. To improve distance learning, the faculty also uses a digitization. This offers the ability to digitize existing X-rays and other medical images into the full medical DICOM format, and subsequent processing on the HIPAX desktop system. Digitized images are stored on an external medium, burned to a CD / DVD, or transferred to another PACS system. In addition, the faculty has the possibility of large format printing and scanning - printing posters in high quality in A0 format. The faculty has at its disposal a high-capacity device (Book Digitizer and Script ScanRobot TREVENTUS) enabling digitization of books and scripts in cooperation with OCR software and publishing on the web using FlipViewer Xpress Creator. At present, narrow-profile publications, which are of the greatest interest among students in the library, are being digitized. The Electronic Books Portal system and Adobe Connect are intended for the distribution of digitized materials.

**E-learning web portals:** The Faculty is a founding member of the MEFANET network (association of Czech and other Slovak medical faculties <https://www.mefanet.cz/index-en.php>). The MEFANET portal at the JFMED has more than 2,450 registered users and contains more than 445 medical articles. The faculty portal <https://portal.jfmed.uniba.sk/index-en.php> is integrated into the MEFANET system. The content of the pedagogical works is published in a form that corresponds to the scripts published in print (most often in PDF format). Works recognized by the editorial board of JLF UK are marked with the logo on the portal. Furthermore, the content of the portal includes multimedia teaching aids, which are either physically located on the JFMED portal, or there is a link to them. Teachers can also make sound lectures available to their students <https://portal.jfmed.uniba.sk/index-en.php>. The pedagogical staff and students of the faculty use the e-learning server MOODLE to create e-learning courses and online testing. Some e-learning courses are used for electronic online testing of students, but there are also comprehensive courses that students can use for self-study. For users of e-learning systems, the e-learning portal JFMED was created - <https://e-learning.jfmed.uniba.sk/en-index.php>, which contains, among other things, manuals for individual e-learning web portals. To support teaching, various teaching websites, portals, web multimedia textbooks, e-books are also being created at our faculty. The above services are concentrated and available from the unified distance education portal. The portal is divided into six sections: e-learning, e-testing, external information sources, online communication, publishing platforms, online simulation simulators and virtual patients. Each of these sections contains a list of available software, a brief description of what each software allows, available links, manuals, tutorials, FAQs and, of course, the contact person to support the software.

d) Institution partners in providing educational activities for the study programme and the characteristics of their participation. Practical teaching within clinical disciplines is carried out at the teaching bases of JLF UK - clinics and institutes in medical facilities - at the Martin University Hospital (UNM), as well as at the Department of Paediatric Tuberculosis and Respiratory Diseases of the JLF UK in Dolný Smokovec. There is also cooperation with other institutions at home and abroad (e.g. University of Žilina in Žilina, Faculty of Pharmacy, Charles University in Bratislava, Karolinska Institute in Stockholm), which is implemented mainly through joint research projects or study stays of doctoral students.

#### BILATERAL AGREEMENTS ON MUTUAL COOPERATION

1. Educational Institution Vitebsk State Medical University, Belarus
2. Molecular - Medical Center of the Slovak Academy of Sciences, Bratislava, Slovak Republic
3. Pécs University, Pécs Medical School, Hungary

#### MEMORANDUM OF UNDERSTANDING

1. Aston University, Aston Medical School, Birmingham, United Kingdom
2. Menntaskólinn á Akureyri, Iceland
3. Department of Integrative Life Sciences, Dankook University, Korea
4. Norwegian Institute for Air Research, Norway
5. Institute of Animal Physiology and Genetics AS, Czech Republic
6. University Hamburg, Medical Faculty - University Hospital, Germany

e) Characteristics of the possibilities for social, sports, cultural, spiritual and social activities. The Faculty offers a wide range of activities and services to students. The Faculty runs two student residences with the capacity of 958 beds. The residence on L. Novomeského street (capacity 781 beds) and the residence on P. O. Hviezdoslavova street (capacity 177 beds) offer accommodation in the style of hotel rooms (double and triple occupancy), apartments and en-suite apartments. All rooms are furnished and have access to Wifi. Both residences also offer laundry facilities and secure bike lockers. There are two parking slots on the compound of L. Novomeského and, nearby, there is a [student library](#) with fully equipped study rooms. Within this residence, there are also two table tennis game rooms, two fitness rooms and two leisure rooms. Outside, there is a sport complex with a running track, a football pitch and tennis courts. The canteen at the L. Novomeského is operational throughout the day, offering breakfasts, lunches and dinners to staff and students. The canteen offers a reduced service during the summer and exam period months. This residence also has a chapel. The JFMED [Institute of Physical education](#) is nearby both residences and further offers sport and wellness/spa facilities.

JFMED students are also organized in groups such as the [Martin Medical Club](#) that covers a range of activities in specialisms such as public health, development of medical science, scientific and research activities but also looks at areas such as human rights.

Group and charitable events such as the Festival of Medics, The Medics run, ice-hockey tournament called the Martin Stethoscope, MedGames and many more are organized by students every year.

Students also take part in international events and competitions and sit on the councils and boards of national and international organizations such as the National Association of Medical Students, The Slovakian Union of Dentistry Students and the International Federation of Medical Students.

- f) Possibilities and conditions for participation of the study programme students in mobilities and internships (indicating contact details), application instructions, rules for recognition of this education.

Students of the study program can participate in their studies in several types of mobility programs. These include Erasmus+ student mobility. Each student can complete a study and internship within the mobility within a total of a maximum of 12 months.

**Mobility for Studies - SMS - Student Mobility for Studies:** Within the Erasmus + program, a student can complete a stay abroad for a minimum of 3 months, but a maximum of 12 months. Interruption of studies due to or during mobility is not possible and mobility must start and end within one academic year. Student mobility is organized based on interinstitutional agreements on student mobility (IIA), which are concluded between universities at the faculty or university level. The student can apply for mobility only to those foreign universities with which an inter-institutional agreement has been concluded at the time of the selection procedure. More information and a list of current IIAs: <https://www.jfmed.uniba.sk/fakulta/medzinarodne-vztahy/erasmus/studium-sms/>

Registration: Erasmus + announces a call for student mobility each year. Based on the published call, students apply electronically via the Mobility Online software, registration is only possible during the period when the call is open (for AR 2022/2023 it was until February 14, 2022).

The conditions and selection criteria are set out in the Internal Regulation of JLF UK no. 11/2021 Conditions and criteria for the selection of students for study stays within the Erasmus + program at JLF UK in Martin

[https://www.jfmed.uniba.sk/fileadmin/jlf/Dekanat/referat-zahranicnych-vztahov/ERASMUS/ERASMUS2021/VP\\_2021\\_11\\_Vyber\\_studentov\\_ERASMUS.pdf](https://www.jfmed.uniba.sk/fileadmin/jlf/Dekanat/referat-zahranicnych-vztahov/ERASMUS/ERASMUS2021/VP_2021_11_Vyber_studentov_ERASMUS.pdf)

**Mobility internship SMT - Student Mobility for Traineeship:** A student can carry out an internship at any level of education (Bc., Mgr., PhD.) For a period of 12 months, but at least 2 months. For mobility - the internship requires the student to take the initiative in finding the institution at which he / she wants to intern. He arranges the acceptance himself. If the internship is part of a study plan, it is automatically recognized and recorded in the Diploma Supplement.

Registration: The Erasmus + program department announces a call for applications for student mobility - internship. The call is open all year round. The student enters the application in the Mobility Online system at the moment when he / she has a selected foreign company / institution (it is accepted).

#### Contacts

Assoc. Prof. Martin Janík, M.D., PhD. – Vice-Dean and Erasmus+ co-ordinator, [martin.janik@uniba.sk](mailto:martin.janik@uniba.sk)

PhDr. Katarína Murčeková – Erasmus+ program administrator ([katarina.murcekova@uniba.sk](mailto:katarina.murcekova@uniba.sk)).

#### 9. Required abilities and admission requirements for the study programme applicants

- a) Required abilities and necessary admission requirements.

The required skills and prerequisites for admission to study are to obtain a 2nd degree university education according to current conditions and regulations.

[https://www.jfmed.uniba.sk/fileadmin/jlf/Dekanat/Sekretariat/Legislativa/Rok\\_2021/VP\\_2021\\_34\\_podmienky\\_PHD.pdf](https://www.jfmed.uniba.sk/fileadmin/jlf/Dekanat/Sekretariat/Legislativa/Rok_2021/VP_2021_34_podmienky_PHD.pdf)

[https://uniba.sk/fileadmin/ruk/legislativa/2021/Vp\\_2021\\_04.pdf](https://uniba.sk/fileadmin/ruk/legislativa/2021/Vp_2021_04.pdf)

- b) Admission procedures.

The conditions of admission with precise instructions on the entrance examination as another condition of admission are in accordance with the updated conditions of admission to the study and are published on the website of the faculty. These conditions are reviewed annually at a meeting of the Council for the Study Program, the faculty management and the Academic Senate of JLF UK. They are based on the internal regulation of the Charles University no. 4/2021 Rules of admission procedure at Comenius University in Bratislava

[https://uniba.sk/fileadmin/ruk/legislativa/2021/Vp\\_2021\\_04.pdf](https://uniba.sk/fileadmin/ruk/legislativa/2021/Vp_2021_04.pdf)

The conditions are published at least 2 months before the last date set for the submission of applications.

- c) Results of the admission process over the last period.

The university archives the documentation of the admission procedure, enrolment in the study and enrolment in the next part of the study, extract of study results, copies of study documents and other documentation for at least 25 years from the date of graduation.

<https://ais2.uniba.sk/ais/start.do>

Overview of the number of registered, accepted and registered candidates for entrance examinations in the study program normal and pathological physiology – full-time and part-time form

academic year	registered	admitted	enrolled
2021/2022	0	0	0
2020/2021	0	0	0
2019/2020	0	0	0
2018/2019	0	0	0
2017/2018	0	0	0

## 10. Feedback on the quality of provided education

a) Procedures for monitoring and evaluating students' opinions on the study programme quality.

The quality of the pedagogical process within the study program is in accordance with Act no. 131/2002 also evaluates in the form of feedback. Students also can express their views, comments, and suggestions for improving the pedagogical process addressed to the vice-dean for doctoral studies through regular doctoral meetings and meetings. The opinions of students are summarized and continuously evaluated at meetings of the Study Program Boards, meetings at workplaces as well as at meetings of the faculty management.

<https://www.ifmed.uniba.sk/studium/doktorandske-studium/aktuality/>

b) Results of student feedback and related measures to improve the study programme quality.

The results and comments of students and graduates are also dealt with annually by the Study Program Board, which takes a stand on them and based on them, proposes measures to increase the quality of the study program.

<https://www.ifmed.uniba.sk/studium/doktorandske-studium/akreditacia-2022-phd/>

c) Results of graduate feedback and related measures to improve the study programme quality.

As part of measuring the quality teaching, the faculty also collects graduate feedback once a year through an electronically distributed questionnaire. After summarizing the results and comments, they discussed at the Study Program Board and management level.

The results of graduate questionnaire surveys are available on the faculty's website:

<https://www.ifmed.uniba.sk/studium/doktorandske-studium/akreditacia-2022-phd/>

## 11. References to other relevant internal regulations and information concerning the study or the study programme student (e.g. study guide, accommodation regulations, fee directive, guidelines for student loans, etc.).

- Study reference guide - no. 13/2020  
[https://www.ifmed.uniba.sk/fileadmin/ijf/Dekanat/Sekretariat/Legislativa/Rok\\_2020/VP\\_2020\\_13.pdf](https://www.ifmed.uniba.sk/fileadmin/ijf/Dekanat/Sekretariat/Legislativa/Rok_2020/VP_2020_13.pdf)
- Study reference guide – CU no. 20/2019 - [https://uniba.sk/fileadmin/ruk/legislativa/2019/Vp\\_2019\\_20.pdf](https://uniba.sk/fileadmin/ruk/legislativa/2019/Vp_2019_20.pdf)  
Appendix 1 - [https://uniba.sk/fileadmin/ruk/legislativa/2021/Vp\\_2021\\_05.pdf](https://uniba.sk/fileadmin/ruk/legislativa/2021/Vp_2021_05.pdf)
- Admission exam regulations – CU no. 4/2021 - [https://uniba.sk/fileadmin/ruk/legislativa/2021/Vp\\_2021\\_04.pdf](https://uniba.sk/fileadmin/ruk/legislativa/2021/Vp_2021_04.pdf)
- JFMED Student residences and canteen CU no. 24/2021 -  
[https://www.ifmed.uniba.sk/fileadmin/ijf/Dekanat/Sekretariat/Legislativa/Rok\\_2021/VP\\_2021\\_24\\_Internatny\\_poriadok\\_VIaj.pdf](https://www.ifmed.uniba.sk/fileadmin/ijf/Dekanat/Sekretariat/Legislativa/Rok_2021/VP_2021_24_Internatny_poriadok_VIaj.pdf)
- Bursaries guidance – JFMED CU no. 26/2018 -  
[https://www.ifmed.uniba.sk/fileadmin/ijf/Dekanat/Sekretariat/Legislativa/Rok\\_2018/2018\\_26\\_Stipendijny\\_poriadok\\_JLF\\_po\\_uprave\\_RUK.pdf](https://www.ifmed.uniba.sk/fileadmin/ijf/Dekanat/Sekretariat/Legislativa/Rok_2018/2018_26_Stipendijny_poriadok_JLF_po_uprave_RUK.pdf)
- Organizational order guide – JFMED CU no. 33/2016 -  
[https://www.ifmed.uniba.sk/fileadmin/ijf/Dekanat/Sekretariat/Legislativa/Rok\\_2016/VP\\_2016\\_33\\_Organizacny\\_poriadok\\_JLF\\_UK.pdf](https://www.ifmed.uniba.sk/fileadmin/ijf/Dekanat/Sekretariat/Legislativa/Rok_2016/VP_2016_33_Organizacny_poriadok_JLF_UK.pdf)
- Disciplinary procedures – JFMED CU no. 30/2018 -  
[https://www.ifmed.uniba.sk/fileadmin/ijf/Dekanat/Sekretariat/Legislativa/Rok\\_2018/2018\\_30\\_Disciplinarny\\_poriadok.pdf](https://www.ifmed.uniba.sk/fileadmin/ijf/Dekanat/Sekretariat/Legislativa/Rok_2018/2018_30_Disciplinarny_poriadok.pdf)
- The Rector's Order governing the school fees – VP UK 17/2021 - [https://uniba.sk/fileadmin/ruk/legislativa/2021/Vp\\_2021\\_17.pdf](https://uniba.sk/fileadmin/ruk/legislativa/2021/Vp_2021_17.pdf)  
Appendix no. 1 - [https://uniba.sk/fileadmin/ruk/legislativa/2021/Vp\\_2021\\_17\\_Priloha\\_1.pdf](https://uniba.sk/fileadmin/ruk/legislativa/2021/Vp_2021_17_Priloha_1.pdf)  
Appendix no. 2 - [https://uniba.sk/fileadmin/ruk/legislativa/2021/Vp\\_2021\\_17\\_Priloha\\_2.pdf](https://uniba.sk/fileadmin/ruk/legislativa/2021/Vp_2021_17_Priloha_2.pdf)  
Amendment no. 1 - [https://uniba.sk/fileadmin/ruk/legislativa/2021/Vp\\_2021\\_27.pdf](https://uniba.sk/fileadmin/ruk/legislativa/2021/Vp_2021_27.pdf)  
Attachment - [https://uniba.sk/fileadmin/ruk/legislativa/2021/Vp\\_2021\\_27\\_Priloha.pdf](https://uniba.sk/fileadmin/ruk/legislativa/2021/Vp_2021_27_Priloha.pdf)
- CU no. 23/2021 Internal regulations for achieving quality in teaching at the Comenius University in Bratislava -
- Study regulations - <https://www.ifmed.uniba.sk/en/study/ifmed-students/the-organization-of-study/study-regulations/>
- Information about the general medicine study program - <https://www.ifmed.uniba.sk/en/study/ifmed-students/general-medicine-study-programme/>
- Timetables - <https://www.ifmed.uniba.sk/en/study/ifmed-students/the-organization-of-study/timetables/>
- The organization of study <https://www.ifmed.uniba.sk/en/study/ifmed-students/the-organization-of-study/academic-year-20212022-schedule/>
- State exams - <https://www.ifmed.uniba.sk/en/study/ifmed-students/the-organization-of-study/>
- The Rector's guidance for the final student work, including the required content, checking of the authenticity, depositing and allowing access the final student works no. 12/2013 [http://uniba.sk/fileadmin/ruk/legislativa/2013/Vp\\_2013\\_12.pdf](http://uniba.sk/fileadmin/ruk/legislativa/2013/Vp_2013_12.pdf)  
Amendment no. 1 - [http://uniba.sk/fileadmin/ruk/legislativa/2017/Vp\\_2017\\_07.pdf](http://uniba.sk/fileadmin/ruk/legislativa/2017/Vp_2017_07.pdf)  
Amendment no. 2 - [https://uniba.sk/fileadmin/ruk/legislativa/2018/Vp\\_2018\\_06.pdf](https://uniba.sk/fileadmin/ruk/legislativa/2018/Vp_2018_06.pdf)  
Amendment no. 3 - [https://uniba.sk/fileadmin/ruk/legislativa/2020/Vp\\_2020\\_05.pdf](https://uniba.sk/fileadmin/ruk/legislativa/2020/Vp_2020_05.pdf)
- Information about the student final work - <https://www.ifmed.uniba.sk/en/study/ifmed-students/the-organization-of-study/>
- The students' scientific activity (ŠVOČ) - <https://www.ifmed.uniba.sk/en/science/students-scientific-activities/>
- Annual report and business performance at JFMED for years 2006-2021 - <https://www.ifmed.uniba.sk/fakulta/dokumenty/vyrocn-a-hodnotiace-spravy/hodnotiace-spravy-urovne-pedagogickej-cinnosti-ijf-uk/>
- Academic Library and Audio-visual Centre - <https://www.ifmed.uniba.sk/en/departments/information-workplaces/kniznica/>
- Student residences and canteen <https://www.ifmed.uniba.sk/en/departments/special-purpose-facilities/student-hostel-and-canteen/>
- Medical education and support centre - <https://www.ifmed.uniba.sk/en/departments/special-purpose-facilities/medical-education-support-center/>
- The Medical Club of Martin - <https://www.ifmed.uniba.sk/martinsky-klub-medikov/>
- Video presentation about JFMED CU - <https://www.ifmed.uniba.sk/online-dod-ijf-uk/>
- JFMED Departments and Clinics - <https://www.ifmed.uniba.sk/en/departments/>
- JFMED long-term objectives - [https://www.ifmed.uniba.sk/fakulta/dlhodobе-zamery-ijf-uk/](https://www.ifmed.uniba.sk/fakulta/dlhodobे-zamery-ijf-uk/)