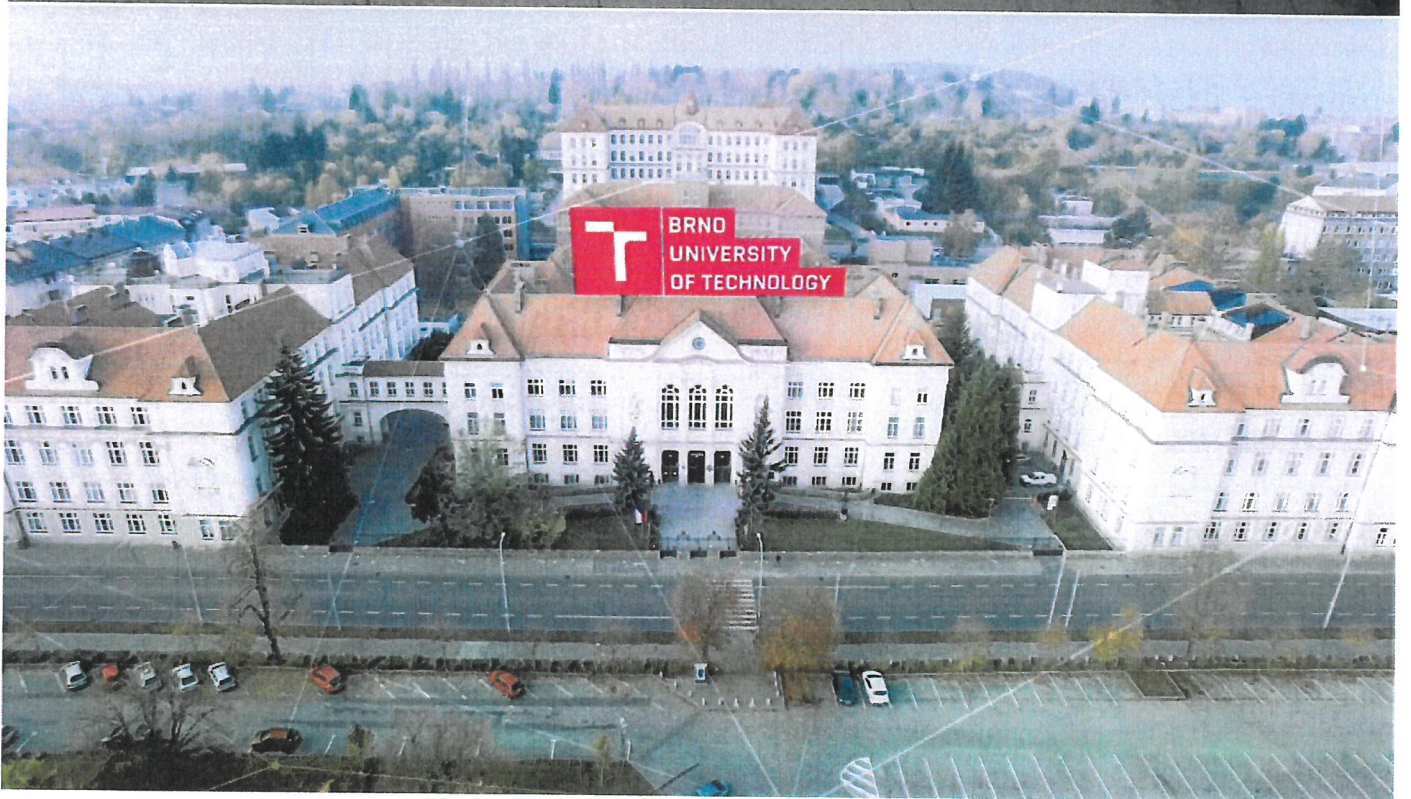


Fiche partenaire – Étudiants sortants (outgoing)

<b>BRNO UNIVERSITY OF TECHNOLOGY -BUT</b>	
<b>Ville</b>	BRNO
<b>Pays</b>	République Tchèque
<b>Continent</b>	Europe
<b>Type de mobilité</b>	Echange – ERASMUS+ Possibilité de bourse de mobilité Etudes (Environ 200 €/mois)
<b>Cycle concerné</b>	Master
<b>Places disponibles</b>	2 étudiants x 5mois
<b>Langues d'enseignement</b>	Anglais
<b>Exigence linguistique</b>	B2
<b>Pourquoi cette université?</b>	Située au centre de 3 capitales européennes. 2 <sup>ème</sup> ville de la République Tchèque – Ville étudiante 90 000 étudiants répartis sur 6 universités. <b>La plus grande université de technologie du pays</b> - Qualité de l'enseignement et de la recherche. Accréditation par the European Association for Education.
<b>Programme</b>	Faculty of Electrical Engineering and Communication – 14 Départements – 4000 étudiants. <a href="https://feec.vutbr/studium_en_llp/index.php">https://feec.vutbr/studium_en_llp/index.php</a>
<b>Calendrier scolaire</b>	Semestres d'automne et de printemps comprenant 14 semaines de cours et 5 semaines d'examens.
<b>Accueil</b>	<a href="mailto:info@feec.vutbr.cz">info@feec.vutbr.cz</a>
<b>Logement</b>	6 résidences universitaires – Coût moyen 134 €/mois <a href="http://www.vutbr.cz/en/life/dormitories">www.vutbr.cz/en/life/dormitories</a>
<b>Site internet</b>	<a href="http://www.fekt.vutbr.cz">www.fekt.vutbr.cz</a>
<b>Assurances</b>	Responsabilité civile
<b>Immigration</b>	Europe
<b>Coût de la vie à prévoir</b>	Très inférieur à celui de la France. <a href="https://www.vutbr.cz/en/life/guide">https://www.vutbr.cz/en/life/guide</a> (1 repas sur le campus = 2 €, 1 mois de transport dans la ville = 10 €)
<b>Frais de scolarité</b>	Echange Erasmus+
<b>Démarche d'inscription</b>	Nomination par ISEN pour le semestre d'automne 1 <sup>er</sup> Mars – 30 Avril pour le semestre d'hiver 1 <sup>er</sup> Juin – 15 Octobre
<b>Contact @</b>	<b>Marta PRUDKOVA</b> <b>Dean's Office – Faculty of Electrical Engineering and Communicaton</b> <a href="mailto:prudkova@vut.cz">prudkova@vut.cz</a>
<b>Contact @ISEN</b>	International-mediterranee@yncrea.fr



**INFORMATION SHEET**  
**Academic Year 2020/2021**

**INSTITUTIONAL**

Full Legal Name of the Institution	VYSOKÉ UČENÍ TECHNICKÉ V BRNĚ BRNO UNIVERSITY OF TECHNOLOGY
Erasmus Code	CZ BRNO 01
Address	Antonínská 1, CZ-60190 Brno, Czech Republic
Website	<a href="http://www.vutbr.cz">http://www.vutbr.cz</a>
Information for International Students	<a href="https://www.vutbr.cz/en/international/short">https://www.vutbr.cz/en/international/short</a>
Institutional Exchange Program Coordinator	Ing. Alexandr Tokár Phone: +420 541 145 114 <a href="mailto:tokar@ro.vutbr.cz">tokar@ro.vutbr.cz</a>
<b>ESN VUT Brno</b> <a href="http://but.esnbrno.cz">but.esnbrno.cz</a>	Valentina Hrtoňová <a href="mailto:president@but.esnbrno.cz">president@but.esnbrno.cz</a>
<b>ACCOMMODATION OFFICE</b> <a href="http://www.kam.vutbr.cz">http://www.kam.vutbr.cz</a> <b>ONLINE application</b> ( <a href="http://www.kam.vutbr.cz/english/">http://www.kam.vutbr.cz/english/</a> )	Koleje a menzy (BUT Halls of Residence) Kolejní 2, 612 00 Brno, Czech Republic Phone: +420 541 142 930 – 33 <a href="mailto:ubytovatelky@adm.skm.vutbr.cz">ubytovatelky@adm.skm.vutbr.cz</a>

**DEPARTMENTAL/FACULTY**

Address	Božetěchova 2, CZ-61266 Brno, Czech Republic
Website	<a href="http://www.fit.vutbr.cz">http://www.fit.vutbr.cz</a>
Head of International Relations at the Faculty of Information Technology	Ing. Vítězslav Beran, Ph.D. Vice - Dean for External Relations <a href="mailto:beranv@fit.vutbr.cz">beranv@fit.vutbr.cz</a>
Departmental Exchange Program Coordinator	Assoc. Prof. Ondřej Rysavy, Ph.D. Phone: +420 541 141 118 <a href="mailto:rysavy@fit.vutbr.cz">rysavy@fit.vutbr.cz</a>
<b>INTERNATIONAL OFFICE</b> (contact point for incoming students) <a href="http://www.fit.vutbr.cz/admissions/short.php.en">http://www.fit.vutbr.cz/admissions/short.php.en</a>	Ing. Michaela Studená Phone: +420 541 141 265 <a href="mailto:studena@fit.vutbr.cz">studena@fit.vutbr.cz</a> ROOM No. F120

**ACADEMIC YEAR 2020/2021 DATES**

Winter Semester starts on 21<sup>nd</sup> September 2020

Summer Semester starts on 8<sup>th</sup> February 2021

E-applications 31<sup>st</sup> March - 31<sup>st</sup> May 2020

E-applications including extension of stay  
till: 15<sup>th</sup> November 2020

A week preceding the first week of lectures BUT organizes a Welcome Week (14. – 18. 9. 2020 and 1. – 5. 2. 2021), participation in it is warmly recommended.

The latest tolerated enrolment to study at FIT BUT must be within the first 2 weeks of the semester.

Each semester consists of 13 weeks of lectures and 5 weeks of exams.

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completion of the [E-APPLICATION](#) is the only way how to apply for an Erasmus stay at FIT BUT

<https://www.vutbr.cz/eprihlaska/en/z/zadani/vybrat-fakultu>

Branch Details

## Biomedical and Ecological Engineering

**FEKT** Abbreviation: **MN-BEI** Acad. year: **2019/2020**

Programme: **Electrical, Electronic, Communication and Control Technology**

Length of Study: **2 years**

Tuition Fees: **2500 EUR/academic year for EU students, 2500 EUR/academic year for non-EU students**

Accredited from: **20.7.2005** Accredited until: **31.7.2021**

### Profile

This branch of study aims to educate MSc graduates oriented towards the inter-disciplinary area of biomedical and ecological applications of electronics and cybernetics. The graduates are competent in theoretical and practical aspects of general electronic engineering and are familiar with the specifics of applications in biomedical, clinical and ecological engineering. Apart from general and specialized technical courses in the area of electronics and cybernetics, students complete a comprehensive set of biomedical and ecological courses taught by significant medical doctors, biophysics and environmentalists. Students acquire a profound knowledge of instrumentation and measurement technology, processing and analysis of measurement data, signals and images and also artificial intelligence applied in order to solve complex, fuzzy problems typical of humanities. Within specialized courses, students are introduced to diagnostic technology for medical and ecological applications, specialized imaging systems, therapeutic, prosthetic and laboratory technology, the principles of design of technical systems in health care, ecology and other non-technical disciplines. Moreover, they acquire user-oriented knowledge of the application of information systems in health care and ecology. Thanks to a broad scope of generally-applicable study ensuring high adaptability, graduates may assume positions in diverse areas of light-current electrical engineering, electronics and cybernetics. The inter-disciplinary character of the study and stays in clinical and ecological institutions facilitate efficient communication with medical and ecology specialists. In all these areas, the graduates can assume higher executive and management positions.

### Key learning outcomes

A graduate gains wide, generally applicable knowledge of the area of instrumentation and measurement technology, processing of measurement data, signals and images, and also on artificial intelligence as applied to solving complex and fuzzy problems, typical for the humanities area. In the specialised

courses, he will become acquainted with diagnostic technology for medical and ecological applications, with specialised imaging systems, with therapeutical, prothetical and laboratory technology, with the design principles of technical systems for health-care, environmental and other non-technically oriented areas. He will also gain a solid user-oriented knowledge on information technology as used in health-care and environmental systems.

Owing to wide fundamentals ensuring high adaptability, the graduates of the branch can take jobs in different areas of electronics, instrumentation, cybernetics and applied informatics. Moreover, their interdisciplinary study and stays at clinical and ecological institutions enable them effective communication with medical and environmental specialists. They are able to apply and exploit effectively the modern computing, measuring and automation technology.

Graduates of the branch of biomedical and ecological engineering can utilise the obtained specialised knowledge namely when being employed in health-care institutions (hospitals, clinics, research institutes), in medical technology industry, and in institution, responsible for diagnosis and protection of environment. Nevertheless, the wide fundamentals of the study enable them to perform jobs even outside of the mentioned area, as electronics engineers oriented towards instrumentation, measurement and microprocessor technology and towards exploitation of information technology. In all of these branches they are capable of working also as higher technical managers.

### **Occupational profiles of graduates with examples**

Students acquire a broad generally-applicable knowledge of instrumentation and measurement technology, processing and analysis of measurement data, signals and images, and artificial intelligence applied in order to solve complex and fuzzy problems typical of humanities. Within specialized courses, students are introduced to diagnostic technology for medical and ecological applications, specialized imaging systems, therapeutic, prosthetic and laboratory technology, the principles of design of technical systems for health care, ecology and other non-technical disciplines.

Moreover, they acquire user-oriented knowledge of the application of information systems in health care and ecology. Thanks to a broad scope of generally-applicable study ensuring high adaptability, graduates may assume positions in diverse areas of light-current electrical engineering, electronics and cybernetics. The inter-disciplinary character of the study and stays in clinical and ecological institutions facilitate efficient communication with medical and ecology specialists. The graduates of biomedical and ecological engineering apply their specialized knowledge working in health care (hospitals, clinics, research institutes), in companies manufacturing medical technology, in institutions ensuring diagnostics and protection of the environment. A broad scope of study enables them to work also outside this area, as electronics engineers oriented towards instrumentation, measurement and microprocessor technology and information technology. In all these areas, the graduates may also assume executive and management positions.

### **Entry requirements**

Conditions for admitting are a completed Bachelor degree education and successful completion of the admissions process.

### **Guarantor**