



Master Programs

Chemical Engineering

2020 - 2021



Biomaterials for tissue engineering

Faculty of Engineering in Foreign Languages

The program directly addresses the staff working in the fields of materials engineering, regenerative medicine, development of prosthetic devices, biochemistry, pharmacy, and all those interested in the vast field of medical engineering and biomaterials for applications in tissue regeneration.

Contact person:

Conf. Dr. Eng. Alexandru Mihai GRUMEZESCU, Master Coordinator
agrumezescu@upb.ro



Advanced Materials Processing and Design

Faculty of Engineering in Foreign Languages

The master program brings together basic and applied sciences disciplines. The structure of the study plan is especially developed to assure one semester of mainly basic disciplines while the most of the second semester of the first year is devoted to the main processing techniques to manufacture 0-3D materials according to their envisaged applications.

This program aims to combine chemistry, engineering, materials science with biomedical, environmental, energy, electric or electronic applications.

Contact person:

Prof. Dr. Eng. Anton FICAI, master coordinator
anton_ficai81@yahoo.com





Smart Polymers and Biopolymers

Faculty of Applied Chemistry and Materials Science

Smart Polymers and Biopolymers (SPB) program focuses on the companies demands from the industry of polymers and biopolymers. These refer to novel fabrication techniques for polymer products such as: advanced polymer membranes, special adhesives with higher lifetime, conductive materials with specific properties for each substrate, innovative processing methods for thermoplastics in automotive and electrochemical industry, polymeric nanomaterials with carbonic content etc.

Contact person:

Prof. Dr. Eng. Horia Iovu, Master Coordinator
horia.iovu@upb.ro





Master Programs

Electrical Engineering

2020 - 2021



Integrated electrical systems engineering in vehicles

Faculty of Electrical Engineering

The main purpose of the program is to specialize students at a high scientific and technological level, through the formation of competences according to the current requirements of employers in the field of automotive industry, especially the main industrial partner of the program, Renault Romania Group.

Contact person:

Assoc. Prof. PhD. Eng. Mihai Iulian REBICAN
mihai.rebican@upb.ro



Ingénierie de l'Information

Faculté d'Ingénierie en Langues Etrangères

Le diplôme en génie de l'information s'adresse aux étudiants attirés par les technologies de l'information, avec tous ses sous-domaines et applications. La formation couvre un spectre large et pluridisciplinaire dans le domaine des ordinateurs et de la technologie de l'information.

Personnes de contact

MdC. Maria-Iuliana Dascalu
maria.dascalu@upb.ro

MProf. George Dragoi
george.dragoi@upb.ro





Master Programs

Power Engineering

2020 - 2021



Energy Engineering

Faculty of Electrical Engineering

The focus of the program is to produce technically versatile graduates capable to tackle independently new problems and today challenges of scientific research, industrial applications and management in various fields of energy engineering, including:

Contact person:

Prof. Cristian Dincă
cristian.dinca@upb.ro





Master Programs

Electronics, Telecommunications and Information Technology

2020 - 2021



Advanced microelectronics

Faculty of Electronics, Telecommunications and Information Technology

The Advanced Microelectronics (AM) program offers a systematic and coherent frame for Mixed Signal Circuits Design and Application studies. The AM graduate will be able to work independently or guided by the project leader in the Microsystems Design and Application. The AM program provides the knowledge for Analog and Mixed Signal Circuits and Microsystems analysis, design and evaluation for both

Contact person:

Prof. Dr. Ing. Claudius DAN



Advanced wireless communications

Faculty of Electronics, Telecommunications and Information Technology

The focus of this program is to provide the theoretical and applied knowledge for engineers in the field of wireless communications. They should have a vision at the system level and conduct designing procedures by highlighting different levels of a wireless system or a wireless communications network, from the physical layer to the application layer.

Contact person:

Prof. Dr. Ing. Ioan Marghescu





Advanced Computing in Embedded Systems

Faculty of Electronics, Telecommunications and Information Technology

In order to reflect the recent trends in the electronics industry, offer cutting-edge knowledge to students and support research programs, the Advanced Computing in Embedded Systems Master's Program is devoted to the following fields of study and research: Parallel Computing, Distributed Computing, Energy-Aware Computing, Embedded Computing, Embedded System Design

Contact person:

Ș. L. Dr. Ing. Radu Hobincu
radu.hobincu@upb.ro





Master Programs

Aerospace Engineering

2020 - 2021



Air transport engineering

Faculty of Aerospace Engineering

Air Transport Engineering (ATE) is a master of Aerospace Engineering program taught in English, addressed to bachelor of Aerospace Engineering graduates but not only, interested in the dynamic field of Air Transport. The students are engaged in scientific research with an individual supervisor. At the end of each semester, a research report is presented to a scientific board. The program ends with a dissertation thesis and exam.

Contact person:

Assoc. Prof. Octavian Thor PLETER





Master Programs

Transportation Engineering

2020 - 2021



Green, Smart and Integrated Transport and Logistics

Faculty of Transportation (UNESCO)

The Green, Smart and Integrated Transport and Logistics (GSITL) ensures a holistic understanding of different technology options and methods, cross-disciplinary abilities, the main necessary competences to develop, analyze and manage innovative and advanced sustainable systems for transportation and logistics

The specific objective of the Master Program is to train specialists with skills and abilities to develop sustainable transport and logistics.

Contact person:

Univ. Prof. Sorin Eugen ZAHARIA
unesco.office@upb.ro





Master Programs

Automatic Control and Computer Science

2020 - 2021



Artificial Intelligence

Faculty of Automatic Control and Computer Science

The M.Sc. programme in Artificial Intelligence offers in-depth theoretical and practical knowledge on artificial intelligence and intelligent applications, distributed problem solving, machine learning and deep neural networks, computer vision, games and strategies, intelligent agents and their applications, social networks, search and filtering of information on the Web, data mining, innovative ways to represent and use data, natural language processing. It focuses on the design and implementation of state-of-the-art artificial intelligence systems, offering both computer science and engineering skills.

Contact person:

Adina Magda FLOREA
adina.florea@cs.pub.ro



Parallel and distributed computer systems

Faculty of Automatic Control and Computer Science

This MSc Program aims to train experts in parallel and distributed computer systems. Subjects include the design, development, deployment, evaluation, and analysis of modern parallel and distributed systems, and their applications. The content includes state-of-the-art topics and real-world techniques

Contact person:

Florin Pop, Prof. PhD
florin.pop@cs.pub.ro





Advanced Cybersecurity

Faculty of Automatic Control and Computer Science

From a professional point of view, the master program develops engineering skills in identifying vulnerabilities, risks and cyber threats, as well as scientific skills in carrying out research projects in the field at European level. The master also aims to develop the professional autonomy of students and their ability to social interaction, transversal skills essential to further career development in both academia and the IT&C industry.

Contact person:

Nicolae Țăpuș
nicolae.tapus@cs.pub.ro

Răzvan Deaconescu
razvan.deaconescu@cs.pub.ro



Financial Computing

Faculty of Automatic Control and Computer Science

The Master of Science in Financial Computing program has the mission to train specialists in the field of Computer Science and Engineering which intend to build a career in the domain of Finance and Banking. The program combines in its curriculum advanced elements of Computer Science which are necessary to specialists working in Banking and Financial Technology (FinTech), as well as introductory Finance elements, and also elements of soft skills.

Contact person:

Andrei Olaru
andrei.olaru@upb.ro





Software Engineering

Faculty of Engineering in Foreign Languages

The Master of Science Program on Software Engineering (MSE) introduces a postgraduate degree to meet new challenges by educating software developers in advanced software engineering concepts that cover the entire development chain, from inception to delivery, from the business management perspective to technical management and development perspectives.

MSE aims to produce software engineering industry leaders and key agents of change to improve practices in the field, as it evolves. The program is project and research oriented. This means that students have a large choice of projects and research themes to develop.

Contact person:

Prof. Nicolae GOGA
n.goga@rug.nl



Information Technologies Applied in Aviation

Faculty of Automatic Control and Computer Science (UNESCO)

This master programme strongly focuses on digitalization of air transport, ensuring cross-disciplinary knowledge and abilities in aviation and ICT, a holistic understanding of ICT options and methods applied in aviation. Students will acquire learning outcomes for developing, analyzing and managing innovative and advanced ITC systems for air transport industry.

Contact person:

Prof. Dr. Ing. Sorin Eugen ZAHARIA
sorin.zaharia@gmail.com





Management, innovation et technologies des systèmes collaboratifs

Faculté d'Ingénierie en Langues Étrangères

L'objectif principal de ce master est de fournir aux étudiants des connaissances sur l'infrastructure d'information et de communication de l'organisation moderne, sur la transformation des affaires et de la gestion sous l'impact des technologies de l'information et de la communication et, en particulier, sur le rôle stratégique des systèmes d'information en économie.

Personnes de contact:

Prof. Dr. Ing. George DRAGOI
dragoi.george23@gmail.com

S. L. Dr. Ing. Dan Alexandru MITREA





Master Programs

Systems engineering

2020 - 2021



Complex systems

Faculty of Automatic Control and Computer Science

This program offers practical aptitudes in the design, the analysis and the control of complex systems along the rapid development of Smart systems (such as Smart Cities, Smart Energy, Smart Transportation, etc.) throughout Europe. We consider ourselves up to date with all the current result in this field and our human resource, having results of international reputation, will get you involved in projects dealing with all the afore mentioned novel topics.

Contact person:

Cristian Oara, Prof. PhD



Service engineering and management

Faculty of Automatic Control and Computer Science

The Master program in Service Engineering and Management (SEM) is a program to educate professional engineers, i.e. graduates will be prepared to conceive, design, implement and operate (CDIO) complex value-added engineering systems.

Contact person:

Theodor Borangiu

theodor.borangiu@cimr.pub.ro





Master Programs

Industrial Engineering

2020 - 2021



Industrial Engineering

Faculty of Industrial Engineering and Robotics

The master programme is aiming to deepen the competences acquired during the bachelor study programme Industrial Engineering, but it may be attended by graduates in different branches of Engineering, too. The programme is designed as an answer to companies' needs.

Contact person:

Prof. Irina SEVERIN
irina.severin@upb.ro



Conception Intégrée des Systèmes Technologiques

Faculté Génie industrielle et Robotique (F.I.I.R)

L'objectif principal est de compléter les connaissances des jeunes ingénieurs et les préparer à répondre aux exigences et aux problèmes de la société moderne, tant en termes de formation professionnelle quant en termes de formation personnelle.

Personne de contact:

Conf. Dr. Ing. Dorel ANANIA
dorel.anania@upb.ro





Ingénierie des Systèmes Industriels

Faculté d'Ingénierie en Langues Étrangères

Ingénieur polyvalent, l'ingénieur "Systèmes Industriels" réunit des compétences d'ingénieur et d'administrateur des fonctions techniques de l'entreprise. S'appuyant sur des connaissances et compétences dans les sciences fondamentales et sociales de l'ingénieur, il associe et coordonne les interfaces entre la maîtrise des processus industriels et le pilotage des systèmes industriels complexes et intégrés.

Contact person:

Prof. Virgil DUMBRAVA
v_dumbrava@yahoo.com





Master Programs

Applied Engineering Sciences

2020 - 2021



Smart Biomaterials and Applications

Faculty of Medical Engineering

The master programme is aiming to deepen the competences acquired during the bachelor study programme Industrial Engineering, but it may be attended by graduates in different branches of Engineering, too. The programme is designed as an answer to companies' needs.

Contact person:

Prof. Izabela-Cristina STANCU
izabela.stancu@upb.ro





Master Programs

Engineering and Management

2020 - 2021



Business Administration and Engineering

Faculty of Engineering in Foreign Languages

The program addresses the graduates from technical universities, general universities or academies of economics from Romania and abroad, wishing to obtain economic knowledge and to achieve digital proficiency for successful businesses. The students receive a combination of technical and economical knowledge, granting analytical abilities and problem solving skills in business administration and management.

Contact person:

Assoc. Prof. Bujor PAVALOIU
bujor.pavaloiu@upb.ro



Management of the digital enterprises

Faculty of Entrepreneurship, Business Engineering and Management

This study program facilitates the development of business skills for students with a technical background or for those with management background that want to develop skills in using digital technology. Therefore, the program aimed at deepening the training in the field of study - Engineering and Management.

Contact person:

Prof. Dr. Eng. Gheorghe MILITARU
gheorghe.militaru@upb.ro





Business Engineering and Entrepreneurship

Faculty of Entrepreneurship, Business Engineering and Management

The mission of the BEE program is to provide skills and abilities necessary for students to identify and evaluate business opportunities, creating ventures focused on solving challenges in society and manage their own business. Entrepreneurs must be able to identify customer needs and market niches using lateral thinking skills and these skills should be taught to engineering students.

Contact person:

Prof. Dr. Eng. Gheorghe MILITARU
gheorghe.militaru@upb.ro



Sustainable Business Excellency and Leadership

Faculty of Engineering in Foreign Languages

This program was developed with the aim of an qualifying specialists at the highest standards and requirements with international competencies for sustainable business development. The program is tailored for Engineers who intend to acquire within their career path business competencies as well as competencies related to sustainability with direct use in their working environment, without being limited to them.

Contact person:

Assoc. Prof. Cristian MUSTAȚĂ
cristianmustata@yahoo.com
+40724445970





Industrial Business Administration

Faculty of Engineering in Foreign Languages

This program was developed with the aim of qualifying specialists at the highest standards and requirements with international competencies. The program is tailored for Engineers who intend to acquire within their career path business competencies with direct use in their working environment, without being limited to them.

Contact person:

Assoc. Prof. Cristian MUSTAȚĂ
cristianmustata@yahoo.com
+40724445970





Master Programs

Sciences de la communication

2020 - 2021



Technologies de la langue et de la traduction automatique

Faculté d'Ingénierie en Langues Étrangères

Le Master Technologies de la langue et de la traduction automatique répond aux besoins actuels de développement des technologies utilisées dans le traitement de la langue mais aussi aux besoins de formation de traducteurs spécialisés. La formation offre aux étudiants les connaissances informatiques et linguistiques, leur permettant de maîtriser tant la création et la gestion d'outils informatiques que les mécanismes de fonctionnement de la langue.

Contact person:

MCU -DR Mme. Roxana Anca TROFIN
roxanaanca.trofin@gmail.com

