



**Politechnika Poznańska
Poznan University
of Technology**

address: pl. M. Skłodowskiej-
Curie 5
60-965 Poznań, Poland
phone: +48 61 665 35 44
fax: +48 61 665 39 56
e-mail: study@put.poznan.pl

Poznan University of Technology

Study at Poznan University of Technology – technology in a positive climate. Poznan University of Technology (PUT) grew out of the State School of Mechanical Engineering which was established in 1919. Currently, it is one of the leading technical universities in Poland which has become one of the most recognized landmarks of the region and even the whole country. To a large extent this was possible due to the renowned pragmatism and reliability of the people of Poznan.

To work and study at such a prestigious university as PUT, one has to effectively combine conceptual impetus, the pragmatism of an engineer, as well as interpersonal skills. Taking all these into

consideration and striving for our ideals day by day, we observe the following rules:

Science for people. We do not retreat from the world: technological development is accompanied by the greatest respect for human beings, protection of the natural environment and sustainable economic development.

Open-minded approach to science. PUT plays an important role in international scientific life: we take an active part in scientific exchange and international projects and cooperate with many companies and research institutions both in Poland and abroad.

Practical experience. The tempo of economic life demands continuous education and adaptation to the realities of

the global market. For this reason, the university combines the development of the latest scientific disciplines with the transfer of this knowledge and technology into the practical dimension.

Close relationship with business. Contacts with numerous business partners are an essential part of university life. Our partners' encouragement and advice help us not only to adjust our educational programmes so as to meet the requirements of the market, but primarily, to make our position among other universities stronger.

Fields of study in English:

- **BSc in Management**, specialization: Engineering with Commerce
- **MSc in Architecture**
- **MSc in Electronics and Telecommunications**, specialization: Information and Communication Technologies
- **MSc in Computing**, specialization: Software Engineering
- **MSc in Automatic Control and Robotics**, specialization: Smart Aerospace and Autonomous Systems
- **MSc in Mechanical Engineering**, specialization: Product Engineering
- **MSc in Management**, specialization: Corporate Management
- **MSc in Chemical Technology**, specialization: Composites and Nanomaterials
- **MSc in Civil Engineering**, specialization: Structural Engineering

Facts & figures: ● Founded in 1919 ● 1270 academic staff ● 20 954 students (29% women) ● 213 foreign students

Contact: Lifelong Learning and International Education Office ● Pl. M. Skłodowskiej-Curie 5, 60-965 Poznań, Poland
● phone: +48 61 665 35 44 ● fax: +48 61 665 39 56 ● e-mail: study@put.poznan.pl ● www.put.poznan.pl

BSc in Management, specialization: Engineering with Commerce

Poznan University of Technology

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■ degree

Bachelor of Science, Engineering Management , specialization: Engineering with Commerce

■ duration

7 semesters

■ language

English

■ ECTS points

210

■ description

The course delivers competences not only in management, economics and law but also in engineering disciplines as well. Such competences enable the graduate professional acting in the meeting of the enterprise and the customer. The graduate is able to associate the technological with economic and marketing problems in the context of global business. The graduate is also prepared to analyze the market and play both the function of sale manager as well as the initiator of change in the enterprise's organization and management systems. He gains the entrepreneurial skills. To end the studies a student is obligated to write an engineering dissertation in Industrial Management.

■ tuition

EU citizens: free of charge
Non-EU citizens: 2000 EUR per year
registration fee: EU citizens: 85 PLN; NON -EU 200 EUR;

■ deadline

End of July

■ contact

Poznan University of Technology
Lifelong Learning and International Education Office
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<http://www.put.edu.pl/>

■ www

www.put.poznan.pl

■ institution

Poznan University of Technology

■ education requirements

English language – level B2 (Common European Framework), Secondary School Certificate which entitles its holder to apply to higher education institutions

Master of Science in Mechanical Engineering specialization: Product Engineering

Poznan University of Technology

address: pl. M. Skłodowskiej-Curie 5, 60-965 Poznań, Poland
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e-mail: study@put.poznan.pl internet: www.put.poznan.pl

■ degree

Master of Science

■ duration

3 semesters

■ language

English

■ ECTS points

90

■ description

The course is intended for mechanical engineers who want to broaden their education by issues connected with managing an industrial product in its whole life cycle, starting from design and finishing in disposal (cradle to grave approach). Environmental, economic and social impacts of any products' existence must all be considered in a path to create goods suitable for future, sustainable economy.

Everything that is available at the global market, both goods and services, is also a subject to the global competition. Therefore, a strong focus in the course is put on the marketing approach to a product, understanding that not only technical requirements stated by potential customers are the source of a products' market status. Interdisciplinary, multispect thinking is necessary in the work of a successful product manager.

Faculty of Machines and Transport offers an unique study programme aimed at educating engineers for the needs of sustainable economy. The Faculty has sixty years of experience in teaching and high scientific potential in means of qualified staff and exceptional research equipment. Adding the ongoing cooperation with best European educational and R&D institutions, it all provides with conditions for high-level technical education.

■ tuition

EU citizens: free of charge
Non-EU citizens: 2000 EUR per year
registration fee: EU citizens: 85 PLN; NON -EU 200 EUR;

■ deadline

December 1 st

■ contact

Poznan University of Technology
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www.prodeng.put.poznan.pl

■ www

www.put.poznan.pl

■ institution

Poznan University of Technology

■ education requirements

Bachelor's degree or its equivalent in engineering or applied sciences, with a qualification in mechanical engineering

Master of Science in Electronics and Telecom-munications: Specialization: Information and Communication Technologies

Poznan University of Technology

address: pl. M. Skłodowskiej-Curie 5, 60-965 Poznań, Poland
phone: +48 61 665 35 44
e-mail: study@put.poznan.pl internet: www.put.poznan.pl

■ **degree**
Master of Science

■ **duration**
3 or 4 semesters

■ **language**
English

■ **ECTS points**
90 ECTS (3 semesters), 120 ECTS (4 semesters)

■ **description**
Master studies in Electronics and Telecommunications (specialisation: Information and Communication Technologies) last three or four semesters. The 3-semester programme starts in end-February whereas 4-semester studies start in end-September. The 3-semester programme version is meant for the B.Sc. graduates in the field of electronics and telecommunications exclusively (not in any other, related subject area). The 4-semester programme additionally has a 'preparatory' semester and is dedicated to the Bachelor-level diploma holders in subject areas other than electronics and telecommunications (e.g. general electrical engineering, computer science, physics, technical physics, mathematics, control engineering etc.). Thus, 'preparatory' semester is mainly devoted to enhance and widen the student's knowledge in telecommunications and electronics and the curriculum following it is identical to the 3-semester programme. Every year a modified set of elective courses is approved by the faculty council, based on the lists of proposed courses as well as general students' preferences, related to the specializations run currently for the MSc programmes. A graduate receives the degree of Master of Science in Electronics and Telecommunications, specialisation Information and Communication Technologies (ICT). The M.Sc. graduates in electronics and telecommunications are prepared to perform research and development in the area of their education. They are prepared to work in R&D centres, telecommunications and electronics companies. They are also able to manage engineering teams involved in designing new equipment, networks, services, etc. They are ready to undertake doctoral studies. Their fluency in English allows free exchange of thoughts, interpersonal contacts and competent drawing up of technical specifications and documentations.

■ **tuition**
EU citizens: free of charge
Non-EU citizens: 2000 EUR per year
registration fee: EU citizens: 85 PLN; NON -EU 200 EUR;

■ **deadline**
November 1 st for 3 sem Programme June 1st for 4 sem. Programme

■ **contact**
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■ **www**
www.put.poznan.pl

■ **institution**
Poznan University of Technology

■ **education requirements**
English language level B2 (Common European Framework)
(3-semester programme): B.Sc. degree (or equivalent) in Electronics and Telecommunications exclusively
(4-semester programme): B.Sc. degree (or equivalent) in electronics and telecommunications or in related study fields

Msc in Architecture

Poznan University of Technology

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phone: +48 61 665 35 44

e-mail: study@put.poznan.pl internet: www.put.poznan.pl

■ degree

Master of Science in Architecture

■ duration

3 semesters

■ language

English

■ ECTS points

90

■ description

The Faculty of Architecture, Poznan University of Technology is committed to studying and teaching the disciplines of Architectural Science, Design Technologies, and Urban Design Planning. The Faculty offers undergraduate (only in Polish language at present) and graduate coursework and research programs in the built environment. The curricula are organized around two basic disciplines of design and planning. Wide range of themes are covered in lectures, field works and studios, where the aim is to bring together knowledge, methodology theory and high levels of professional skills within the framework of projects.

Focal points of undergraduate education are architectural design studios aiming to freely develop the students' investigative sides, creative personalities and way of thinking. Students have the opportunity during their undergraduate studies to follow programs in different areas like history of architecture, drawing, painting, building technology and structure. The 1.5 year Master of Architecture is a qualification for students who want to advance their architecture skills. While it is open to Bachelors Degree in Architecture graduates, the programme has been specifically developed to learn new techniques, sharpen design skills and keep abreast of current theory. The Faculty is supplemented by the critics and theorists from various countries, introducing students to issues and trends in contemporary design, urban planning. There are various individual research carried out by the members of the staff at the department, which include: architectural design, urban and regional planning. For many years, Faculty of Architecture Pozan University of Technology has educated students who have assumed important roles in shaping Polish built environment. Today's graduates continue this tradition by answering the challenges posed by contemporary European society.

■ tuition

EU citizens: free of charge

Non-EU citizens: 2000 EUR per year

registration fee: EU citizens: 150 PLN; NON -EU 200 EUR

■ deadline

End of December

■ contact

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■ www

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■ institution

Poznan University of Technology

■ education requirements

English language – level B2 (Common European Framework),

Bachelor of Science Eng. in Architecture, portfolio.

MSc in Chemical Technology, specialization: Composites and Nanomaterials

Poznan University of Technology

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■ degree

Master of Science in Chemical Technology, specialization: Composites and Nanomaterials

■ duration

3 semesters

■ language

English

■ ECTS points

90

■ description

Master studies in Chemical Technology – Composites and Nanomaterials last for three semesters starting in February each year. The first semester is partly devoted to amend the basic knowledge in chemical technology for candidates studying abroad and those persons who at their bachelor level, studied directions different from chemical technology to reach standards defined by the Ministry of Science and Higher Education. Regular courses contain physical and inorganic chemistry, engineering of materials and chemical reactors, technology of polymers, processing of nanomaterials and composites. Classes on modelling and simulation are included. Laboratory classes allow to perform synthesis and detailed characterization of composites together with their various practical application using the specific physical, mechanical and electrochemical properties. Ecology and recycling is also in the programme as well as advanced materials for generation and storage of energy. The students have also a possibility to select elective courses during studies, e.g. biotechnology, medical aspects and others. A graduate receives the title – Master of Science in Chemical Technology. He/she is prepared to perform research and development in the discipline of his/her education, i.e. chemical technology, especially in Composites and Nanomaterials. A graduate can be employed in research and industry where the knowledge of advanced materials is required. His/her competence will be synthesis, characterization, processing and application of composites and nanomaterials taking into account environmental protection. He/she is prepared to undertake doctoral studies. His/her English knowledge allows easy exchange of experience, communication, direct interpersonal contacts and fluent formulation of documentations and/or specifications.

■ tuition

EU citizens: free of charge
Non-EU citizens: 2000 EUR per year
registration fee: EU citizens: 85 PLN; NON -EU 200 EUR;

■ deadline

end of December

■ contact

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■ institution

Poznan University of Technology

■ education requirements

English language – level B2 (Common European Framework),
Bachelor of Science degree (or equivalent)

MSc in Civil Engineering, specialization: Structural Engineering

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- **degree**
Master of Science, Engineer in Civil Engineering, specialization: Structural Engineering
- **duration**
3 semesters
- **language**
English
- **ECTS points**
90
- **description**
The graduate obtains the scientific degree of Master of Science, and the title of Engineer. During studies, the student acquires both theoretical knowledge and practical skills in civil engineering with a special reference to strength of materials, structural analysis, geomechanics, building construction, enterprise management, steel structures, concrete structures, timber structures with numerical methods in computational mechanics (statics, stability, dynamics) of structures, and other elective subjects. The graduate is capable of solving complex problems in civil engineering, with practical application of computer aided design.
- **tuition**
EU citizens: free of charge
Non-EU citizens: 2000 EUR per year
registration fee: EU citizens: 85 PLN; NON -EU 200 EUR;
- **deadline**
December 1 st
- **contact**
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- **www**
www.put.poznan.pl
- **institution**
Poznan University of Technology
- **education requirements**
English language – level B2 (Common European Framework),
Bachelor of Science degree (or equivalent)

MSc in Computing, specialization: Software Engineering

Poznan University of Technology

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■ degree

Master of Science in Computing, specialization: Software Engineering

■ duration

3 semesters (18 months)

■ language

English

■ ECTS points

90

■ description

The term "software engineering" was coined in 1968, during the NATO conference in Garmish. It was used in response to the problems associated with a software development that then still young IT sector was facing. Although more than 40 years have passed, the software development in many IT companies is still chaotic. Software is frequently delivered after the deadline, it costs much more than anticipated at the beginning, developers are often forced to work over-hours, and despite all these efforts, the software that is delivered does not meet customer needs and contains too many defects.

The goal of Software Engineering as a discipline, is to deliver solutions that can be used to mitigate the problems associated with the software development by applying engineering methods to its development.

Since 1998, Poznan University of Technology offers a M.Sc. Programme in Software Engineering. The curriculum aims at providing graduates with the necessary knowledge and skills to perform three important roles in IT projects:

- Project Manager - project management methodologies, risk management, planning (size and effort estimation of software development);
- Analyst - business process modeling, elicitation of functional and non-functional requirements for information systems, and preparation of acceptance tests;
- Architect, senior developer - object-oriented design, software architectures, real-time systems, and software testing.

An important element of the curriculum is the Software Development Studio (SDS). This is a very practical form of studying. During the SDS course students are involved in projects delivering real software for real customers. Therefore, they have an opportunity to use different methods, standards, and tools for software development in practice. Each team is composed of four 4th-year students working towards Bachelor Degree and two or three students from the M.Sc. Programme in Software Engineering. Fourth-year students play the roles of designers and programmers, while the Software Engineering students are supposed to act as project managers, analysts or architects. All the courses offered within the M.Sc. Programme in Software Engineering are in English. The candidates should have Bachelor Degree in Computer Science, Computer Engineering, Informatics or related fields.

■ tuition

EU citizens: free of charge
Non-EU citizens: 2000 EUR per year
registration fee: EU citizens: 85 PLN; NON -EU 200 EUR;

■ deadline

December 1 st

■ contact

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■ www

www.put.poznan.pl

■ institution

Poznan University of Technology

■ education requirements

education requirements
English language – level B2 (Common European Framework),
Bachelor of Science degree (or equivalent)

MSc in Automatic Control and Robotics, double degree programme

Poznan University of Technology

address: pl. M. Skłodowskiej-Curie 5, 60-965 Poznań, Poland
phone: +48 61 665 35 44
e-mail: study@put.poznan.pl internet: www.put.poznan.pl

■ degree

Master Degree in Automatic Control and Robotics with specialization Smart Aerospace and Autonomous Systems of PUT and Master Degree Sciences pour l'Ingénieur option Smart Aerospace and Autonomous System (SAAS) of Université d-Evry-Val d'Essonne -

■ duration

3 semesters

■ language

English

■ ECTS points

90

■ description

The Chair of Control and Systems Engineering of the Faculty of Computing at Poznan University of Technology (PUT), Poland, and the UFR Sciences et Technologies of Université d-Evry-Val d'Essonne (UEVE), France offer Master of Science, double degree diploma, in Automation and Robotics with specialization Smart Aerospace and Autonomous Systems (SAAS)-Autonomiczne Systemy Latające na kierunku Automatyka i Robotyka.

The last decade has seen a significant increase in research in Smart Aerospace and Autonomous Systems. Now, the field is sufficiently mature to engage in a procedure of education. From an educational point of view in the SAAS program we are interested in developing, modeling, simulating and testing guidance, navigation, control and decision systems for autonomous operation of unmanned aerial vehicle systems, unmanned ground vehicle and autonomous and robot systems. Issues of special interest include the determination of levels of autonomy and integration of control, online decision systems, mission planning, trajectory generation and tracking and limited communication.

The objective of the Master SAAS is to give interdisciplinary degree program providing students with strong foundation in smart and autonomous systems aerospace and terrestrial robotics thorough hands-on experience through projects, assignments and a Master's thesis. One of the main aims of the proposed program study is to merge all institution efforts under one umbrella such as autonomous systems control. The curriculum's common core represents electrical, aeronautics, mechanical, control, computer science and engineering. At the end of their curriculum, students will be able to develop and implement reliable, safe economically feasible and environmentally responsible smart aerospace and autonomous systems, and then to advance the technology to make such autonomous systems possible.

The first semester will be taught at PUT. The second semester will be held in UEVE. The third semester is principally devoted to the Master's thesis and students will choose it between PUT and UEVE. In this way, they will all have mobility of at least 6 months between two institutions in Poland and France, respectively. In each country the local language will be offered but all courses will be delivered in English.

Learning outcome. Student, after passing their master, will have the following skills:

*Scientific and technical knowledge of autonomy engineering and the skills to use this knowledge efficiently;

*Capacity to develop and design innovative autonomous systems;

*Capacity to work both independently and in multidisciplinary teams, to communicate by written and oral presentations, in an international context;

*Capacity to transfer high techniques methodology from university to industry;

*Capacity to manage an engineering team;

*Ability to understand different European cultures and languages.

Potential jobs: Government (Law enforcement, border security, coast guard), fire and rescue (forest fire, emergency rescue), energy sector (oil and gas industry distribution infrastructure, electricity, grids/distribution network monitoring), communication – broadcasting, surveillance, agriculture – forestry – fisheries (environmental monitoring, crop dusting, fisheries protection) and others.

■ tuition

EU citizens: free of charge

Non-EU citizens: 2000 EUR per year

registration fee: EU citizens: 85 PLN; NON -EU 200 EUR;

■ deadline

End of December

■ contact

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■ www

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■ institution

Poznan University of Technology

■ education requirements

English language – level B2 (Common European Framework), To be admitted as a first year Master's student, an applicant must have earned a Bachelor's degree or its equivalent in engineering or applied sciences, obtained with good mark, with a qualification in aeronautics, electrical engineering, computer science engineering, systems engineering, mechanical engineering and mechatronics.

MSc in Management, specialization: Corporate Management

Poznan University of Technology

address: pl. M. Skłodowskiej-Curie 5, 60-965 Poznań, Poland
phone: +48 61 665 35 44
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■ degree

Master of Science in Management, specialization: Corporate Management

■ duration

4 semesters

■ language

English

■ ECTS points

120

■ description

The graduates from the Management have a vast knowledge on different functional areas of enterprise like: strategic management, business planning, controlling and financial management, marketing management, engineering management, logistics, production management, total productive maintenance, quality management and human resource management.

Knowledge acquired during studies allows the graduates to apply for job where they can solve problems in the following areas: restructuring of enterprises, problems of the economy transformation, globalization and entrepreneurship, information management systems, management systems design, logistics systems, implementing new management concepts, network company, virtual enterprise, methods of industrial product marketing, ergonomics and work environment engineering.

The graduates have also wide knowledge concerning new forms of business organizations like lean and agile enterprises. They very often get managerial positions in companies. The graduates are also prepared to run their own business.

■ tuition

EU citizens: free of charge

Non-EU citizens: 2000 EUR per year

registration fee: EU citizens: 85 PLN; NON -EU 200 EUR;

■ deadline

End of December

■ contact

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■ www

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■ institution

Poznan University of Technology

■ education requirements

English language – level B2 (Common European Framework),
Bachelor of Science degree (or equivalent)

ERASMUS MUNDUS JOINT DOCTORATE in INFORMATION TECHNOLOGIES for BUSINESS INTELLIGENCE DOCTORAL COLLEGE

Poznan University of Technology

address: pl. M. Skłodowskiej-Curie 5, 60-965 Poznań, Poland
phone: +48 61 665 35 44
e-mail: study@put.poznan.pl internet: www.put.poznan.pl

■ duration

3 years (6 semesters)

■ language

English

■ ECTS points

180

■ description

Since its inception 20 years ago, Business Intelligence (BI) has become a huge industrial domain and a major economic driver, however overlooked by academics. It encompasses many scientific and technological fields including data warehouses, data mining, content analytics, business process management, visual analytics, and requires competences in information systems, web science, decision science, and software engineering. The Erasmus Mundus Joint Doctorate in Information Technologies for Business Intelligence – Doctoral College (IT4BI-DC) is designed to develop research excellence in this broad scope of fields. Its main objective is to train computer scientists who understand and help develop the strategies of modern enterprise decision makers. IT4BI-DC is a continuation of the EMMC “Information Technologies for Business Intelligence” (IT4BI).

The programme favours the integration of students into a network of world-renowned researchers and specialists in BI. The curriculum is jointly delivered by Université Libre de Bruxelles (Belgium), Aalborg Universitet (Denmark), Technische Universität Dresden (Germany), Universitat Politècnica de Catalunya (Spain), and Poznań Technical University (Poland). Associated partners from around the world include top-ranked universities, leading industries in BI, public and private research organizations, R&D companies, consulting companies, and public authorities. Associated partners will contribute to the programme by training students, providing job placement or internships, as well as financial support, in particular through additional scholarships. This consortium will prepare graduates to address major governance challenges in today’s knowledge-based society by developing the three interdependent components of the “knowledge triangle”, i.e., education, research, and innovation.

IT4BI-DC is a 3-year (180 ECTS) doctoral programme implemented as a co-tutelle model. The consortium jointly designs a set of Doctoral Topics addressing six fundamental BI challenges: Modeling and Semantics, Information Discovery, Information Integration, Business Analytics, Large-Scale Processing, and Collaboration and Privacy.

Each of the Doctoral Topics is jointly co-supervised by at least two partners of the consortium. The doctoral candidate will spend between 33% and 50% in the host university of the co-tutelle. Upon completion of the program, graduates will be awarded with a joint degree from the universities of the co-tutelle.

IT4BI-DC provides to doctoral candidates a high-level education and training programme comprising Research-specific courses, Innovation and Entrepreneurship courses, Methodological and Communication courses, Language courses, Organization of and participation in scientific events, and Internships. Students participate to the IT4BI-DC Doctoral Colloquium and to the European Business Intelligence Summer School (eBISS) organized by the IT4BI Master Course. The tuition language is English.

■ deadline

Please check here <http://it4bi-dc.ulb.ac.be/apply>

■ contact

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e-mail: study@put.poznan.pl, <http://www.put.edu.pl/>
For further information on the programme, mobility, relationships with companies, etc., please contact us at it4bidc@cs.ulb.ac.be

■ www

www.put.poznan.pl

■ institution

Poznan University of Technology

■ education requirements

Students must have been awarded the equivalent of 300 ECTS of studies with a major in computer science, from an accredited university (<http://www.iau-aiu.net/content/list-heis>) or from a university listed in one of three university rankings Shanghai, QS and Times.

At least, 60 of those ECTS must correspond to a Master's degree.

Students must be able to demonstrate proficiency in English by means of an internationally recognised test equivalent to level C1 in the Common European Framework of Reference for Languages (http://www.coe.int/t/dg4/linguistic/CADRE_EN.asp).

The tests include, e.g., Cambridge English First A, IELTS (academic) 7.0, TOEFL (paper based) (590, TOEFL computer based) 243, TOEFL (Internet based) 110, etc.