Partnership Search

General information	
Partner-country	Belarus
General information about region/ town	Location: Southwestern Belarus, on the right bank of the western river Bug First mentioned: 1019 as Berestye Education: Brest State Technical University and Brest State University named after A.S. Pushkin, colleges and vocational Schools. Population: 310.8 thousand inhabitants Locals: tolerant and well-wishing people, friendly atmosphere, low crime-rate.
Name of university: website:	**Brest State Technical University** www.bstu.by
Institution's preferable role in the project? (applicant/partner)	Partner
Brief description of university, faculty, department, number of students	At present Brest State Technical University is one of the largest educational and scientific centers in the Western part of Belarus. BrSTU undertakes research into important areas of construction, architecture, electronics, mechanical engineering, economy and ecology and offers more than thirty degree courses. There are about 10,000 students studying at 8 faculties comprised of 33 departments: Civil Engineering, Mechanical Engineering and Electronics Electronic Information Systems, Engineering Systems and Ecology, Economics, Innovation, Management and Finance, Extra-Mural Studies, Preparatory and the Institute of Further Education and Retraining. The University offers 29 undergraduate courses, 18 graduate courses and 14 postgraduate ones. The scientific potential of the University includes 17 professors 21 doctors of science, 125 associate professors and 152 candidates (Ph.D.) and experienced academic teachers. The total number of academic staff is 681. The institution is committed to developing its reputation as a provider of high quality teaching. It aims to fulfill its responsibility for the educational needs of Brest Region, and to maintain and develop cooperation with other institutions both within Belarus and beyond. Participation of BrSTU in the project will facilitate knowledge transfer based education development in the conditions of sustainable environment.
Relevant information on previous or on-going international cooperation	Erasmus Plus Programme: **Project Library Network Support Services (LNSS): modernizing libraries in Armenia, Moldova and Belarus through library staff development and reforming library services** (2015 – 2018) (leading partner: Public Administration Academy of the Republic of Armenia, (Yerevan, Armenia)). Cross-Border Cooperation Programme Poland-Belarus-Ukraine: **Project Development of technology for the construction of clean and energy efficient houses with composite filling timber frame** (2013 – 2016) (leading partner: Pope John Paul II State School of Higher Education (Biala Podlaska, Poland)). Tempus Programme: **Project Reform of Education THru INternational Knowledge exchange** (2013 – 2016)

	(leading partner: Lisbon Technical University (Lisbon, Portugal)); **Project Centers of Excellence for young RESearchers** (2013 – 2016) (leading partner: University of Zilina (Zilina, Slovakia)); **Project Belarusian Road Safety Network** (2013 – 2016) (leading partner: Sapienza University of Rome (Rome, Italy)); **Project Facilitating University-Industry-Society Cooperation in Belarus** (2007 – 2009) (leading partner:Royal Technological University (Stockholm, Sweden)). **Project Transfer of Technologies between High School and Universities** (1997 – 1998); (leading partner: Fachhochschule Biberach (Germany)). <u>Robert Bosch Stiftung</u>, Germany (2005- up to present). <u>The Baltic Sea Region Programme:</u> **Project BSR QUICK** (leading partner: Hanse Parlament (Hamburg,Germany)) (2009-2012); **Project PRESTO** (leading partner: Union of the Baltic Cities, Environmental and Sustainable Development Secretariat/City of Turku), (2011-up to present). <u>Erasmus Mundus Programme</u> **Project EWENT** (2012 - 2016) (leading partner: Warsaw University of Technology (WUT), Poland; **Project TEMPO** (2012-2016) (leading partner: Lisbon Technical University,Portugal); **Project ACTIVE** (2012 – 2017) (leading partner: Warsaw University of Technology (WUT), Poland.
Contacts of responsible person: name, title (Mr, Mrs, Dr, Prof), position, telephone, fax, e-mails	Marketer of Technology transfer center Ms. Olga Sakharchuk, e-mail: <u>ttc@bstu.by</u>, tel/fax: + 375 162 40 83 74

we would like to take part as a partner in any project that corresponds with our objectives and thematic area of our university.

Type of the project:	Erasmus+ KA1: International students and staff credit mobility Erasmus+ KA1: Erasmus Mundus Joint Master Degrees Erasmus+ KA2: Capacity Building Higher Education in Partner Countries
Area of project:	Reform of curriculum of Higher Education Facilitating university-industry-society cooperation
Subject areas	Social sciences, Business and Law (Business and administration), Green economy, Cognitive Linguistics и Pragmalinguistics, Science, Mathematics and Computing (Mathematics and statistics, Computing), Robotics, Intelligent Information Technologies, Road Safety, Engineering, Manufacturing and Construction (Engineering and engineering trades, Sustainable construction, Building structures, Architecture and construction), Zero-energy houses, Environment-friendly building materials.
Brief need analysis	- Support in reorganization of education under the Bologna process - Study of the best practices at the partner Universities in the European Union; - Analysis of the practices and planning of their adaptation to the realities in the Belarusian Universities;

Objectives and activities	- Modernization of curricula in academic disciplines identified as priorities by the Partner Countries, using the European Credit Transfer System (ECTS), the three cycle system and the recognition of degrees. - The interdisciplinary approach to designing and implementing educational programs in higher education. The approach is based on the integration of different disciplines. - Enhancement of attractiveness of higher education in partner countries for foreign students and teachers. - Development and promotion of Lifelong learning in Belarusian society. We are eager to consider all declared themes.

Brest State Technical University

Milestones
1966 – founded as Civil Engineering Institute
1989 – incorporated into Polytechnic Institute
2000 – incorporated into Technical University

Statistics
Student community: 10 658
International students: 316

Undergraduate Programmes: 28
Master's Degree Programmes: 18
Doctoral Degree Programmes: 14

Courses for mobility students (English Medium)
Undergraduate – 31
Graduate - 11
Postgraduate - 5

Bilateral agreements: 110

Faculties: 7

- Civil Engineering
- Electronic Information Systems
- Engineering Systems and Ecology
- Economics
- Mechanical Engineering
- Extra-Mural Studies
- Innovation, Management, Finance
- Pre-University

Institute of Professional Development and Retraining

Research

IN CONSTRUCTION
Creation of optimal strength and stability built structures from newly developed materials
Ways to improve serviceability and functionality of buildings and structures

IN MECHANICAL ENGINEERING
Development of scientific forecasting methods for materials strength analysis
Development of resource saving and strengthening technologies

IN ENVIRONMENTAL MANAGEMENT
Development of resource saving technologies for application in nature protection

IN ENERGETICS
Theoretical and experimental research in new combustion techniques
Development of renewable energy application technologies

International projects

Finished: 8

Education – Industry – Society

Quick

BALTIC SEA ACADEMY

EWENT

TEMPO

ACTIVE

PRESTO

Robert Bosch Stiftung

Current: 7

eSafe

Energy Efficient Houses

CERES

RETHINKe

Erasmus+
Credit Mobility

Library Network Support Services

Courses for Erasmus+ students (English Medium)

UNDERGRADUATE COURSES
Information Technologies
- Evolutionary Computation
- Pattern Recognition
- Introduction to Bayesian Decision theory
- Theory and Application of Automaton
- Introduction to Fuzzy Logic
- Introduction to Neural Networks
- Introduction to Intrusion Detection based on Neural Networks
- Information Security Principles
- Introduction to Artificial Immune System
- Object –Oriented Programming
- System Programming
- Assembler Language Programming
- Ergonomics of Complex Graphic Interfaces
- CAD/CAM Systems
- C# programming
- Java Programming
- SQL Progamming Language
- Oracle PL/SQL Programming
- Android Platform Programming

Civil Engineering
- Basic Surveying
- Basics of Structural Design
- Reliability of Building Structures

Water Supply Systems and Soil Conservation
- General Chemistry

Economics
- Project Management
- Economics

Mathematics
- Mathematics (Basic Course 1)
- Mathematics (Basic Course 2)
- Mathematics (Basic Course 3)
- Probability Theory and Elements of Mathematical Statistics

Optional
- Presentations for Professional Activities
- Peculiarities of Belarusian Mentality and Etiquette.Belarusian Ethnology

GRADUATE COURSES
Information Technologies
- Pattern recognition
- Evolutionary Computation
- Fuzzy Logic
- Introduction to intrusion detection based on neural networks
- Intelligent Multiagent Systems
- Artificial Immune Systems
- Ergonomics of software complexes
- Operation Systems Kernel Programming
- Android platform programming
- Computer graphics software packages

Architecture
- Social principles of architectural design

POSTGRADUATE COURSES
Information Technologies
- Intelligent signal processing
- Intelligent multiagent systems based on reinforcement learning
- Intelligent intrusion and viruses detection
- Intelligent control of mobile robots
- Intelligent systems in different domain: medicine, robotics, pattern recognition, etc.

BrSTU