

**Politehnica University Timișoara**  
**Faculty of Civil Engineering**

**Bachelor's degree program: Civil Engineering (english teaching branch)**  
**Domain: Civil Engineering**

**General information**

Requirements: Baccalaureate and admission contest based on files

Duration: 4 years (8 semesters); 240 ECTS credits

Teaching language: English

Form of studies: Full time

Professional title for the graduates: Bachelor Diploma and the title of Civil Engineer

**Description of the Civil Engineering domain**

The Civil Engineering teaching branch is conceived as an interdisciplinary domain, which prepares the future engineers for the design and the construction of new buildings, as well as for the refurbishment of existing constructions. The educational program is focused on providing a high standard qualification for the students, by means of modern curricula, compatible with the civil engineering education systems in several European universities with a long tradition and experience. The implementation of the EUROCODES (code package promoted by the European Union in the field of construction) has begun in Timisoara, as a pioneer, long before other academic centers in the country.

**Competences and knowledge acquired**

1. Technologic and economic design for the erection, operation and maintenance works in civil engineering, specific to graduated study program.
2. Application of efficient and responsible work strategy (implying punctuality, seriously and personal responsibility) based on the principles, rules and values of professional ethics.
3. Application of efficient team work techniques on miscellaneous hierarchical tiers.
4. Documentation in Romanian and foreign language, in view of professional and personal development, via continuous learning and efficient adaptation to the new technical specifications.

**Courses**

Mathematics I, II, III, IV, General Chemistry, Introduction to Computer Programming, Culture and Civilization, Second language, Sport, Experimental data processing, Practical training, Material Science1, 2, Mechanics, Physics, Applied Computer Programming, Mechanics of Materials 1,2, Electrical Engineering Fundamentals and Introduction in Thermodynamics, Fluid Mechanics and Machines,, Engineering Geology, Engineering graphics, Architecture for Engineers, Microeconomics, Basis of Structural Design, Introduction to Environmental Engineering, Building Physics, Structural Analysis 1,2, Highway and Traffic Engineering, Engineering Ethics and Communication, Concrete 1,2, Metal constructions 1,2, Foundations, Timber structures, Soil and rock mechanics, Marketing and Building legislation, Dynamics and Earthquake Engineering,, Buildings 1,2, Technology 1,2, Introduction in FEA, Management, Building Services, Reinforced and prestressed concrete structures, Metal structures, Management of constructions and building sites, Special R.C. Structures, High performance concrete and composites, Special Metal Structures, Structural Glass Building Services, Bridges, Masonry and local materials structures, Materials and technologies for sustainable buildings, Technology for steel and composite structures, Composite Steel Concrete Structures, Technology 2, Special techniques in foundation engineering



### **Civil Engineering in the Politehnica University Timisoara**

Considering the extensive use of the English language at international level and especially in higher education, science and research, the decision of founding an English teaching branch in Civil Engineering has come in a natural way. Thus, in 1991, following the approval from the Romanian Ministry of Education, the Civil Engineering English teaching branch was founded. From the very beginning, a modern curricula was implemented, compatible with civil engineering educational programs of important Universities of European countries, with which the Politehnica University Timisoara collaborated also in research since 1990 (i.e. The Universities of Edinburgh, Manchester , Nottingham and Sheffield in U.K., The University of Liege in Belgium, E.N.S. Cachan and INSA-Rennes in France, The University Federico II of Naples in Italy, Technical University of Athens in Greece, etc.). Up to now, over 300 English speaking graduates in Civil Engineering have been supplied to the Romanian and European construction market companies, consultancy and design offices as well as subsequent commercial activity.

### **Career opportunities**

The civil engineers are indispensable specialists of modern society. Regardless of the general economic situation, the Civil Engineering English teaching branch graduates have a well defined place on the construction market. Both private companies and state companies represent career opportunities for present and future graduates. The acquired English technical vocabulary in Civil Engineering and improved communication capabilities, actually provide enhanced opportunities to obtain jobs and to work in the frame of multi-national companies, either in Romania, in Europe or worldwide. In a continuously changing and globalizing world, this represents a very strong reason to choose the Civil Engineering English teaching branch of the “Politehnica” University of Timisoara.

### **Contact**

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Faculty of Civil Engineering

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