

Politehnica University Timisoara
Civil Engineering Faculty

Master degree program: Durable Development – Energy Audit and Fire Safety of Existing Buildings (teaching in Romanian language)

Duration: 2 years - 4 semesters (3 semesters lectures+1 semester graduation thesis)

The energy consumption as well as fire risk in buildings should be decreased in the EU (including Romania) and all over the world by certain rates. The present civil engineers should be aware and capable to take into account these factors and to have solutions for solving the existing problems.

Why “Durable Development ...”? Because of the social and economic impact of the energy saving and fire safety in constructions. The existing buildings should respond to new demands regarding these criteria and consequently it should be rehabilitated for energy and fire proofing. These problems are continuously discussed at international conferences.

Studied subjects: Durability, Constructions’ physics, Energy consumption assessment in buildings, Design and rehabilitation for thermal proofing of buildings and services, Fire action, design and proofing, Research and design activities for graduation thesis.

Future perspectives: The acquired knowledge will qualify the young Master graduates to design and re-design for energy saving and fire safety of new and existing structures, to take part, as a specialist, at construction and rehabilitation works. Some of the graduates could continue the research within the Doctoral studies in the field of energy audit and fire safety of buildings.