

New Master Course

Building Services for Regenerative Cities

Starting from October 2022



FACULTATEA
DE
INGINERIE A
INSTALAȚIILOR


UNIVERSITATEA
TEHNICĂ
DIN CLUJ-NAPOCA

The **New Master Course** is the result of more than two years of work and more than 600 pages dossier, with the support of **Swiss Embassy**, **European Energy Award Association**, **Romania Green Building Council**, and many international and local companies.



Association European Energy Award AISBL
Place du Grand Sablon 19
BE-1000 Brussels

eea Office
Molkenstrasse 21, CH-8004 Zürich

Tel +41 44 213 10 22
info@european-energy-award.org
www.european-energy-award.org

Catre: Universitatea Tehnica din Cluj-Napoca
Building Services for Regenerative Cities



ROMANIA
GREEN
BUILDING
COUNCIL

Scrisoare de susținere

Zurich, 29 November 2021

Master programme - Building Services for Regenerative Cities

Dear Madam, dear Sir,

The Association European Energy Award AISBL is supporting the new Master degree in English, Building Services for Regenerative Cities, where the concept and the measures of European Energy Award will be taught and taken as a reference. We will be happy to support the new master with access to documentation and Best Practice Library, which can be a source of inspiration for the students.

Consiul Român al Clădirilor Verzi - Romania Green Building Council (RoGBC www.rogbc.org) reprezentată de Președintele Andrei Botiș susține crearea unui Masterat în limba engleză Building Services for Regenerative Buildings la Facultatea de Ingineria Instalațiilor din cadrul Universității Tehnice din Cluj-Napoca.

RoGBC este o asociație non-profit, apolitică, formată din organizații active în toată țara. Promovăm responsabilitatea față de mediu și eficiența energetică pe durata ciclului de viață a unei clădiri (de la faza de design, construcție până la operare și deconstruire), iar masteratul propus de Universitatea Tehnică din Cluj-Napoca este menit să formeze specialiști extrem de solicitați la ora actuală.

RoGBC va sprijini cu documentație și specialiștii din cadrul companiilor membre acest masterat, iar ca deținător al licenței European Energy Award în România, își dorește pregătirea de profesioniști în managementul orașelor.

The term of **REGENERATIVE** is from COST RESTORE definition:
“Enabling social & ecological systems to evolve”

The timing for launching this Master Course is spot-on: climate change, New Green Deal, 15% energy reduction in Europe, but most of all, the challenge for cities to become Climate Neutral.

So, students and professor will learn together how to succeed, with Cluj-Napoca and the university buildings as their playgrounds.



If you are an **engineer** or an **architect**, working in for city council, contractors, design firms or real-estate developers, we are looking for you to enrol in this **brand-new Master** and become **part of the change**, with a futureproof domain.



This is the fourth English Master and is part of the internationalisation strategy of the University, with options for **Erasmus+** exchanges in **EUt+** or elsewhere in **EU** and **Switzerland**.

Educational Plan

1ST SEMESTER COURSES



Advanced Building Services - HVAC and Water Supply



Digital Design and Fabrication - BIM



Advanced Architecture



nZeB Buildings



Circular Economy



Human Centric Lighting



Nearly Zero Energy Building



Educational Plan

2ND SEMESTER COURSES



Building and City Assessment



Indoor Environment Quality and Well-being



Building Services Retrofit Solutions



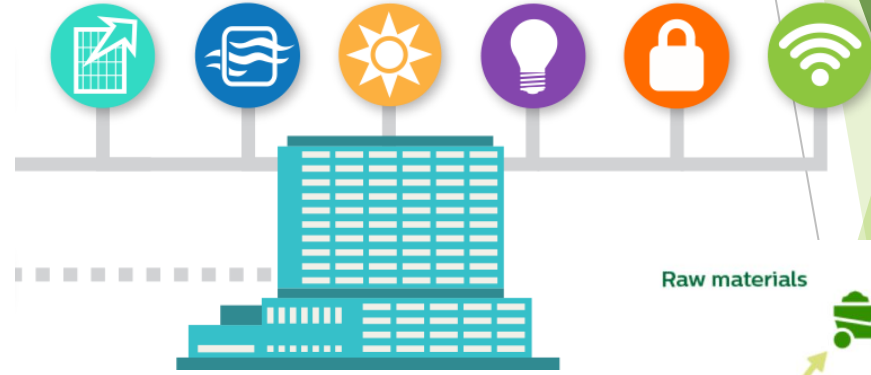
Energy Analysis of a Building / City



Lifecycle Analysis



Ethics and Academic Integrity



Educational Plan

3RD SEMESTER COURSES



Urban Network Management



Management Tools and Programs for Regenerative Cities



Communication Skills



Renewable Energy Sources

Optional 1



Urban Electric Infrastructure



Control Systems for Smart Homes and Cities

Optional 2



Project Management



Local, National and European Policies



Biomass



Geothermal



Wind



Hydroelectric



Solar

