

CEEPUS-Network CIII-BG-1103-05-2021

Flexible course"Modelling, Simulation and Computer-Aided Design in Engineering and Management"

University for Business and Technology (UBT), Priština, Kosovo.

12-16.07.2021

Introduction to CEEPUS-Network CIII-BG-1103-05-2021 and Flexible CEEPUS courses. Distribution of topics to students for preparing presentations

Assoc. Prof. Dr. Galia Marinova

Module 1. Emerging topics and security challenges

Assoc. Prof. Dr. Galia Marinova

- L1. Nanocommunications and security
- L2. Autonomous vehicle, smart road infrastructure and security
- L3. Cryptocurrencies and security

Students presentations and discussion on Advantages, Security threats and Possible solutions connected with:

- P1. Nanocommunications
- P2. Autonomous vehicle and smart road infrastructure
- P3. Cryptocurrencies

Module 2. Optimization and its implementation for energy flows in microgrids and portfilio optimization for business models

Assoc. Prof. Dr. Vassil Guliashki

- L1. Optimization methods introduction
- L2. Optimization of energy flows in microgrids
- L3. Business models. Portfolio optimization
- P1. Optimization methods in MATLAB
- P2. Optimization of energy flows in microgrids in MATLAB
- P3. Portfolio management and optimization (MATLAB, Firefly algorithm)

Module 3. Presentation and testing of the Platform IMA-NET for e-management of academic networks

Lecturer Krisel Tola

- L1. E-learning and E-management principles and tools
- L2. Structure and features of the Platform IMA-NET. Demonstration.
- L3. Software realization of the platform IMA-NET
- P1. Testing the registration system of IMA-NET platform
- P2. Filling the Surveys in IMA-NET
- P3. Filling the Feedback option of the platform IMA-NET

Assessment and certificates