

Programme
Visiting Professor Louis Francois Pau
29-31 March 2022

Research Institute of Transilvania University of Brasov, L2 and L3

Tuesday, March 29, 10 am EET, L2 first floor

ENERGY SAVINGS and GREEN TECHNOLOGIES

(overview of the long for-grade course at the University's Doctoral school)

Topic:

1. Units, climate & energy types
 2. Methodologies for energy savings analysis and global treaties
 - * 3. Green Component technologies and measurements
 - * 4. Green Information systems
 - * 5. Green Communications networks
 - * 6. Electrical Power grids
 - * 7. Energy savings in Transport and other networks
 - * 8. Energy savings in Buildings
 9. Energy savings and emissions Economics, trading and business
 10. Policies, Regulatory design
- (* in this lecture (based on audience priorities))

Tuesday, March 29, 12:30 pm EET, L2 first floor

ROUND TABLE WITH UNIVERSITY FACULTIES, INDUSTRY and GUEST LECTURER on the same topic

Wednesday, March 30, 10 am EET, L2 first floor

QUANTUM COMPUTING:

TOWARDS REALIZATION AND NEW ARCHITECTURES

(overview of the long for-grade course at the University's Doctoral school)

1. History, evolution, industry uptake
2. Step-by-step: from Von Neumann and bits, to quantum computing and qubits
3. Quantum information
4. Quantum cryptography
5. Quantum processing mechanics
6. Technologies for quantum computing

Wednesday, March 30, 12:30 pm EET, L2 first floor

ROUND TABLE WITH UNIVERSITY FACULTIES, INDUSTRY and GUEST LECTURER on the same topic

Thursday, March 31, 10am EET, L2 first floor

INTRODUCTION to INTELLECTUAL PROPERTY (IP)

(short overview of the course at the University's Doctoral school and InnEO summer school in Brasov)

1. What is intellectual property?
2. Types of intellectual property
3. Patents
4. Invention disclosure
5. Process steps for a patent

6. IPR strategies
7. Copyright
8. IP licensing
9. Non patentable inventions
10. European unitary patent system
11. Trademarks
12. Registration
13. Laws

Thursday, March 31 12:30 pm EET – Place: L3

ROUND TABLE WITH UNIVERSITY FACULTY, INDUSTRY and GUEST
LECTURER on the same topic