

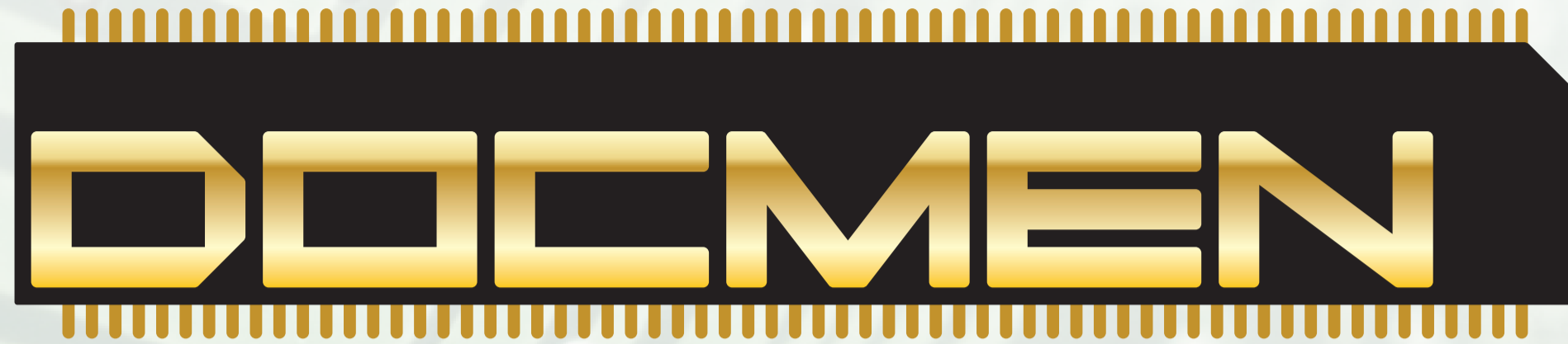
DEVELOPMENT OF TWO CYCLE INNOVATIVE CURRICULA IN MICROELECTRONIC ENGINEERING

Capacity Building Project

www.docmen-project.eu



Funded by the
Erasmus+ Programme
of the European Union



MAIN GOALS

11 new core curricula/modules

- ULSI devices and novel simulation techniques
- ECAD for Microsystems
- Bio-Nanoelectronic devices for biosensing
- Nano/Microelectronic interfaces for brain studies
- Design of nanoscale integrated circuits
- Nanomaterials
- Packaging technologies in microelectronics
- Microelectronic technologies for alternative sources of energy
- Technologies and applications of Superconductive materials
- Practise oriented curricula for micro electronics and data transmission
- Innovative solving in microelectronics engineering problems, using TRIZ method

3 new transferable curricula/modules

- Effective communication with groups presentation techniques
- Survival in Labor Market (carrier managing)
- Project management (business planning, funding, marketing, performance)

New supporting learning environment

- Joint web based platform
- Microelectronics Labs (MicLabs)

Linking to the labor market

- Establishing Microelectronics Service Office (MicSO) with stakeholders support

Updated current curricula in the target field

CONSORTIUM

Target universities

- L.N. Gumilyov Eurasian National University (KZ)
- Caspian Public University (KZ)
- Shakarim State University of Semey (KZ)
- North Kazakhstan State University (KZ)
- Yerevan State University (AM)
- National Polytechnic University of Armenia (AM)
- European Regional Educational Academy Foundation (AM)
- Gavar State University (AM)
- Tel Aviv University (IL)
- Bar-Ilan University (IL)
- Sami Shamoon College of Engineering (IL)
- Holon Institute of Technology (IL)

EU-partners

- Cracow University of Technology (PL)
- Technische Universitat Berlin (DE)
- Technical University of Sofia (BG)
- Politecnico di Torino (IT)
- ECM Space Technology GmbH (DE)

Associated partners

- Kazcosmos/National Center of Space Research and Technology (KZ)
- Ray Techniques Ltd (IL)

