

# DEVELOPMENT OF TWO CYCLE INNOVATIVE CURRICULA IN MICROELECTRONIC ENGINEERING

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Funded by the  
Erasmus+ Programme  
of the European Union



## MAIN GOALS

### 3 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

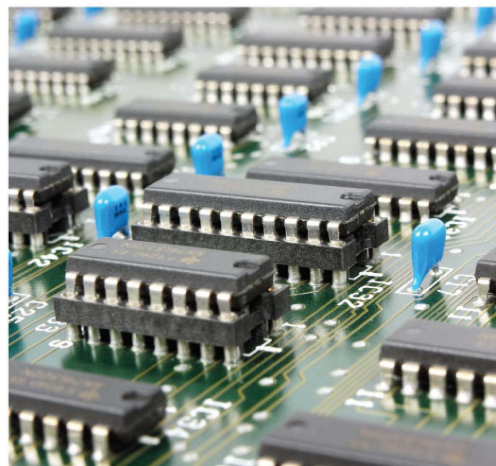
### Updated current curricula in the target field

### 11 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.

## PROJECT OBJECTIVES

- improve the quality of higher education and enhance its relevance for the labour market and society;
- improve the level of competences and skills in HEIs by developing new and innovative education programs;
- support the modernisation and internationalisation of the (HE) in microelectronics in the targeted Universities in AM, IL, KZ through innovation of two cycles curricula
- analyse the educational needs in micro- and nanoelectronics through problem and job analysis, and review the current curricula
- update the current curricula in Microelectronics according
- develop, implement and accredit curricula including ECTS
- bring the Higher Education Institutions of Partner Countries closer to the Labour Market



## CONSORTIUM

5 EU partners

12 target universities

2 associated partners

