

# MA IN INNOVATION AND ENTREPRENEURSHIP IN COMPUTER AND COMMUNICATION TECHNOLOGIES

(Taught in Bulgarian)

## Brief description of the program:

The program covers all aspects of entrepreneurship, innovation and technological management of modern computer and communication technologies. Aspects of the organization of knowledge management, project financing for innovation, entrepreneurship in the electronic media and telecom operators, aspects of modern innovative technologies, realization of investment and development projects in telecommunications and computer technology. The program provides the following specialization:

- Innovation and entrepreneurship in computer and communication technologies

The program offers an upgrading semester for the candidates holders of the "Professional bachelor" degree in the field 5.3 Communication and computer equipment.

## Major and qualification:

**Specialization:** Innovation and Entrepreneurship in computer and communication technologies

**Major:** Communication and Computer Engineering

**Qualification:** Master degree in technology management innovation in computer and communication technologies.

## Program

### 1<sup>st</sup> year, semester 1

Basic courses (credit)

**TCMM039 Universal service authorized state aid and public-private partnership** - 30 h. 3 cr.

**TCMM040 Methods and applications for technology audit networks** - 30 h. 3 cr.

**TCMM041 Investments and financing of innovative activities** - 30 h. 3 cr.

**TCMM042 Basics of entrepreneurship and innovation in ICT** - 30 h. 3 cr.

**TCMM043 Innovative engineering** - 30 h. 3 cr.

**TCMM051 Techniques for creative thinking** - 30 h. 3 cr.

**TCMM370 Business administration in electronic communications** - 30 h. 3 cr.

Extracurricular educational forms (credit)

**TCMM044 Individual work: Techniques for creative thinking** - 30 h. 3 cr.

**TCMM045 Individual work: Universal service authorized state aid and public-private partnership** - 30 h. 3 cr.

**TCMM046 Individual work: Business Administration in electronic communications** - 30 h. 3 cr.

**TCMM047 Seminar: Methods and applications for technology audit networks** - 30 h. 3 cr.

**TCMM048 Individual work: Investment and financing of innovative activities** - 30 h. 3 cr.

**TCMM049 Individual work: Foundations of entrepreneurship and innovation in ICT** - 30 h. 3 cr.

**TCMM050 Seminar: Innovative Engineering** - 30 h. 3 cr.

## 1<sup>st</sup> year, semester 2

Basic courses (credit)

**TCMM200 Internet of Things** - 30 h. 3 cr.

**TCMM248 Partnership and business integration in high technology** - 30 h. 3 cr.

**TCMM249 Quality standards and risk management** - 30 h. 3 cr.

**TCMM263 Semantic Web (WEB 3)** - 30 h. 3 cr.

**TCMM273 Entrepreneurship in electronic media** - 30 h. 3 cr.

**TCMM274 Strategic management of the organization of knowledge** - 30 h. 3 cr.

**TCMM275 Integrated services over hybrid networks** - 30 h. 3 cr.

Extracurricular educational forms (credit)

**TCMM276 Practice: Internet of Things** - 60 h. 6 cr.

**TCMM277 Project: Semantic Web (WEB 3)** - 30 h. 3 cr.

**TCMM279 Practice: Entrepreneurship in the electronic media** - 60 h. 6 cr.

**TCMM290 Seminar: Integrated services over hybrid networks** - 30 h. 3 cr.

## 2<sup>nd</sup> year, semester 1

Basic courses (credit)

**TCMM357 Cloud Computing** - 30 h. 3 cr.

**TCMM358 Wireless local networks (IEEE 802.11)** - 30 h. 3 cr.

**TCMM359 Intelligent transport systems** - 30 h. 3 cr.

**TCMM360 Systems skills management** - 30 h. 3 cr.

**TCMM372 Innovation and intellectual property protection** - 30 h. 3 cr.

**TCMM373 Next generation communication terminals** - 30 h. 3 cr.

**TCMM374 Converged services to the end user** - 30 h. 3 cr.

Extracurricular educational forms (credit)

**TCMM375 Internship: Innovative Laboratory** - 150 h. 15 cr.

## Upgrading semester:

Basic courses (credit)

**TCMM025 Technologies of the information society** - 30 h. 3 cr.

**TCMM026 Modern electronics for computer and communication systems** - 30 h. 3 cr.

**TCMM027 ITU telecom business model** - 30 h. 3 cr.

**TCMM028 Audit knowledge and innovation** - 30 h. 3 cr.

**TCMM029 Mobile systems and networks** - 30 h. 3 cr.

**TCMM030 Computer and communication systems and networks** - 30 h. 3 cr.

**TCMM031 Solving optimization problems with electronic tables** - 30 h. 3 cr.

Extracurricular educational forms (credit)

**TCMM032 Seminar: Technologies of the information society** - 30 h. 3 cr.

**TCMM033 Individual work: Computer electronics and communication systems** - 30 h. 3 cr.

**TCMM034 Individual work: software applications for business models creation** - 30 h. 3 cr.

**TCMM035 Seminar: Audit of knowledge and innovation** - 30 h. 3 cr.

**TCMM036 Practice: Radio communication systems and networks** - 30 h. 3 cr.

**TCMM037 Seminar: Communication systems and networks - 30 h. 3 cr.**

**TCMM038 Seminar: Optimization and numerical tasks in telecommunications - 30 h. 3 cr.**