

## Management of New Technologies and Innovations

<i>Name of the subject:</i> <b>Management of New Technologies and Innovations - BSc</b>	<i>SUBJECT code:</i>	Weekly hours: 6	Credit: 6
<i>Subject leader:</i> Isidora Milosevic  Ivica Nikolic	<i>Academic Degree:</i> Assistant Professor  Assistant	<i>Prerequisites:</i> Necessary knowledge of the basics of management, marketing and production management	

**Purpose** of the course is to introduce students to the main elements of managing the new technologies and innovation, as well as an extremely important items for achieving, maintaining and strengthening competitive advantage in enterprise level, the state, and the entire technological development..

**Course description:** Training students in the use of appropriate techniques and knowledge for the future professional activity in the field of new technologies and innovations.

### Schedule

Weeks	Topics
1.	Basic of new technologies and innovations; Previous approaches to technological changes; Old and new techno-economic paradigm; New technologies and high technology; Loopy and general management areas to new technologies and innovations; The meaning of technology
2.	Technology as an object management;
3.	Types of technology; Technology package and component technologies; The term technological "knowhow"
4.	Change management technology and organization; Fragmentation technology; Nature, man, society and technology; The relationship science-technology-practice;
5.	New technologies, employment and hiring;; Reengineering and organizational change. Integrative models of enterprises, innovative model of organization and A comparative survey of management models
6.	Technological evolution, life cycle of organization and development phase new products / processes; Technological trajectories.
7.	Management of new technologies and Productivity / organization / organizational structures; Transfer of technology; Strategic and operational management technology

8.	New technologies and company strategies; Models technological strategy; New technologies and markets; Innovative organizations; Technological innovation and commercialization inventions; Classification of innovation (radical, evolutionary, architectural, component); Models innovation activities; The effectiveness of innovation activities;
9.	The importance of innovation capabilities and management knowledge - the concept of visible and invisible assets; New technologies and competitive advantage – Porter generic strategy;
10.	The diamond of competitive advantages; Changing the techno-economic obstacle contemporary Business;
11.	New technologies and globalization; The acceleration of technological change; The new economy; Moore legality
12.	Gazelle company; Ability and competence of the company; The core competence; Root
13.	Dynamic capabilities; Copying and imitating; Innovation and SME activity
14.	Knowledge management as a major competitive forces of the XXI century; Key highlights and contributions of modern management and new technologies innovation
<b>Final grade:</b> Seminar paper 30; Activity during the lectures 10; oral exam 60	
<b>Compulsory literature:</b>	
1. J.Howells, The management of Innovation and Technology, Sage Publications, London, 2005	
<b>Supplemental literature:</b>	
1. S.Shane, Handbook of Technology and Innovation Management, A John Wiley and Sons, Ltd., Chichester, 2008	