	UNIVERSITY OF NIŠ	
Course Unit Descriptor	**Faculty**	Faculty of Mechanical Engineering

GENERAL INFORMATION

Study Program	**Engineering management**
Study Module (if applicable)	-
Course Title	Management of technological development
Level of Study	☒ Bachelor ☐ Master's ☐ Doctoral
Type of Course	☐ Obligatory ☒ Elective
Semester	☒ Autumn ☐ Spring
Year of Study	IV
Number of ECTS Allocated	6
Name of Lecturer/Lecturers	Dragoljub Živković, Miroslav Radovanović
Teaching Mode	☒ Lectures ☒ Group tutorials ☐ Individual tutorials ☐ Laboratory work ☐ Project work ☐ Seminar ☐ Distance learning ☐ Blended learning ☐ Other

Purpose and Overview (max. 5 sentences)

Introduce students with technology development in specific civilization periods, significance of science and research, goals of management of technological development, methods of forecast of technological development, development policy, innovation processes and transfer of technology. The purpose is to develop knowhow for forecasting future demands and development pathways, choosing and development of future technologies, practical implementation of technological research results.

Syllabus (brief outline and summary of topics, max. 10 sentences)

1) Introduction – processes and events in civilisation development, definition of elementary terms, 2) Development of technology in various civilisation eras, 3) First and second industrial revolutions, 4) Information society – information revolution, 4) Characteristic periods of social development (significance of research and development, technology and social and factor, technology and human factor 5) Management of technological development (The meaning and components of technology, types if technology and productivity, goals of management of technological development), 6) Technological development and world economy, 7) Organisational model of an enterprise, 8) Methods for forecasting technological development (Delfi method, PATTERN method), 8) Development policy, 9) Innovation processes, 10) Output of a technological system – development of products and services, 11) Transfer of technology, 12) Globalisation and technological cooperation.

Language of Instruction

☒ Serbian (complete course)   ☒ English (complete course)   ☐ Other _____ (complete course)

☐ Serbian with English mentoring   ☐ Serbian with other mentoring _____

Assessment Methods and Criteria			
Pre exam Duties	Points	Final Exam	Points
Activity During Lectures	5	Written Examination	10 (student case study paper)
Practical Teaching	5	Oral Examination	30
Teaching Colloquia	50	Overall Sum	100
*Final examination mark is formed in accordance with the Institutional documents			

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