



# UNIVERSITY OF NIŠ

**Course Unit Descriptor**

**Faculty**

## GENERAL INFORMATION

Study program

**Mechanical engineering**

Study Module (if applicable)

Course title

PRODUCT FOR 6 $\sigma$

Level of study

Bachelor  Master's  Doctoral

Type of course

Obligatory  Elective

Semester

Autumn  Spring

Year of study

Eight

Number of ECTS allocated

6

Name of lecturer / lecturers

Saša Randelović

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 to high quality products in a variety of areas that include the use of the latest technologies and management processes without loss. What is needed to provide the product world-class. To offer such knowledge to the student at his wake and support creative and creative thinking about a new generation of products. Making a student is able to make a reengineering of the existing production process to the consequences properties improved or completely new product to the market with a view to supporting all aspects of the design process.

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

**Theory:** 1. An integrated process model production processes. World-class manufacturing processes. The new process model and products. 2. Team work, the requirement of creating world-class products. 3. Quality level 6 $\sigma$  Modern product. Product as an instrument of modern business. 4. In general classification of the product. Product as a challenge continuous improvement. Successful business world, the challenge of success 5. Strategy production program. Maintenance and elimination of products from the production program. produce or buy. 6. Production and globalization world market. Successful business world case studies. 7. The strategy of new product development. 8. New product as a factor of successful business 9. Planning to introduce a new product into the production program. methods and the

phase of introducing a new product into the production program. 10. The idea of a new product and assessment strategies product 11. Feasibility study of new products, methods of risk analysis. 12. Develop prototypes and quick product development 13. Testing and launching a new product on the market. 14. The acceptance of a new product consumers 15. The strategy of product life cycle. Successful business world case studies.

#### 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	20
Practical teaching	5	Oral examination	50
Teaching colloquia	20	OVERALL SUM	100

\*Final examination mark is formed in accordance with the Institutional documents