

## Production Systems Course

<i>Name of the subject:</i> <b>Production Systems- MSc</b>	<i>SUBJECT code:</i>	Weekly hours: 2 lecture+2 practical work	Credit: 8
<i>Subject leader:</i> Snežana Urošević	<i>Academic Degree:</i> <i>Associate Professor</i>	Prerequisites: Management, Theory of Organization, Production Management	

**Purpose** The course is directed towards a systematic consideration of the process of transformation of inputs into finished goods and services within different production systems.

**Course description:** Production systems are systems for achieving the goals of production or preparation of the products necessary to meet the needs of society. The main objective of the course is directed towards a systematic consideration of the process of transformation into finished products and services within different production systems. Case study: Production Systems activities of organizing production, operation and development of companies with high aspirations that these activities are concretized and quantified. Students will become familiar with a large number of methods, models and procedures to be applied in the organization of production, business and the development of enterprises. Students acquire knowledge of the company as an integrated whole with the connection of all functional elements and are trained to recognize and understand the importance of the manufacturing system, manufacturing and service processes.

### Schedule

Weeks	Topics
1.	Production operating system-term and definition
2.	The bodies production and management system
3.	The resources of business entities
4.	Organizational structure of business entities
5.	The service systems and delivery services
6.	Product and production program
7.	Determination of the elements of the system
8.	Location of production systems
9.	The organization of production systems
10.	Working processes and system capacity
11.	Product Development
12.	Developing business entities
13.	The development of production systems
14.	Business Process Reengineering

**Final grade:**

Colloquium 40 p, Exam 40 p, Seminar 10 p, Teaching 10 p, TOTAL 100 points

51-60 points - mark 6

61-70 points - mark 7

71-80 points - mark 8

81-90 points - mark 9

91-100 points - mark 10

**Compulsory literature:** A.Anil Kumar, N. Suresh, Production and operation management (With Skill Development, Caselets and Cases), New Age International Publishers, 2008, ISBN 978-81-224-2425-6

**Supplemental literature:** Bellgran, M., Safsten, E.K. Production Development of Production Systems, 2010. Springer, ISBN 978-1-84882-494-2  
D. R. Lehmann, R. S. Winer, Product Management, McGraw Hill, USA, 2005.