UNIVERSITY OF ECONOMICS - VARNA

FACULTY OF „ECONOMICS“

DEPARTMENT „INDUSTRIAL BUSINESS AND LOGISTICS“

Adopted by the FC (record №/ date): №9/23.04.2020

Adopted by the DC (record №/ date): №7/27.02.2020

ACCEPTED BY:

Dean:

(Assoc.prof.Denka Zlateva, PhD)

SYLLABUS

SUBJECT: “ OPERATIONS MANAGEMENT ”;

DEGREE PROGRAMME: “Business and management” ; BACHELOR`S DEGREE

YEAR OF STUDY: 3 ; SEMESTER: 5;

TOTAL STUDENT WORKLOAD: 240 h.; incl. curricular 75 h.

CREDITS: 8

DISTRIBUTION OF WORKLOAD ACCORDING TO THE CURRICULUM

TYPE OF STUDY HOURSE	**WORKLOAD, h.**	**TEACHING HOURS PER WEEK, h**
CURRICULAR: incl. • LECTURES • SEMINARS (lab. exercises)	 45 30	 3 2
EXTRACURRICULAR	165	-

Prepared by:

1. ……..
(assoc.prof.Silviya Blagoeva, PhD)

2. ……
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Head of department: ……..
„Industrial business and logistics“ (assoc.prof. Yordan Ivanov, PhD)

I. ANNOTATION

The "Operations management" subject is one of the foundations for the training of specialists with the bachelor's degree major "Industrial business and entrepreneurship". It is applied subject teaching approaches and methods for taking managerial decisions connected with the design, exploitation and improvement of the operation system of the enterprise. By studying the subject the students gain the necessary theoretical and practical knowledge in order to be able to:

- *evaluate the importance of decisions connected with the selection of product and process and their reflection on the functioning of the operations system of the enterprise;*
- *know the basic types of production processes and their structure;*
- *take decisions for the allocation of processes and working places, taking into account the influence of various external and internal factors;*
- *reveal opportunities for reduction of the production cycle, knowing its structure and influencing factors;*
- *analyze the main forms of manufacturing organization and the potential for their application;*
- *manage operatively a manufacturing process.*

The practical implication of the mastered main instruments, approaches and methods creates preconditions for rational combination of the elements of the operation system in time and space with minimum cost for material, labour and financial resources; ongoing analysis of the performance of the enterprise operating system; development of opportunities for improving the enterprise operating system.

The "Operations management" subject is based on the knowledge given in the preceding years subjects such as "Microeconomics", "Management", "Marketing", etc. The accumulated knowledge is a foundation for mastering a wide scope of economic disciplines under the major such as "Human resource management", "Strategies and Tactics of Pricing", "Financial and Business Analysis".

II. THEMATIC CONTENT

No. by row	TITLE OF UNIT AND SUBTOPICS	NUMBER OF HOURS		
		L	S	L.E.
Topic 1: СЪЩНОСТ И СЪДЪРЖАНИЕ НА ОПЕРАЦИОННИЯ МЕНИДЖМЪНТ. ОПЕРАЦИОННА СИСТЕМА НА ПРЕДПРИЯТИЕТО		**5**	**2**	**0**
1.1	Operations management essence and scope			
1.2	Enterprise operations system			
1.3	Types of operations systems			
Topic 2: ENTERPRISE OPERATIONS STRATEGY		**3**	**2**	
2.1	Operations strategy essence and scope			
2.2	Operations performance objectives			
2.3	Main directions of influence of the operations strategy			
Topic 3: PRODUCT DESIGN AND SELECTION OF PROCESS IN THE MANUFACTURING SPHERE		**3**	**2**	
3.1	Main stages of the product design			
3.2	Taking into account consumers' needs			
3.3	Process and equipment selection			
Topic 4: ENTERPRISE MANUFACTURING PROCESSES		**4**	**2**	
4.1	Essence and types of production processes			
4.2	Production process structure			

4.3	Main principles of production process organization			
Topic 5: PROCESS ALLOCATION PLANNING		**6**	**4**	
5.1	Essence and significance of the production structure			
5.2	Production layout			
5.3	Principles of process and working places space allocation (Sorts of production structure)			
5.4	Methods for product structure design			
Topic 6: PRODUCTION CYCLE		**6**	**6**	
6.1	Essence, significance and structure of the production cycle.			
6.2	Modes of combining operations (consequent, parallel, parallel-consequent combination of operations)			
6.3	Directions for shortening the duration of the production cycle			
Topic 7: FORMS OF MANUFACTURING ORGANIZATION		**4**	**2**	
7.1	Essence and factors determining the choice of form of manufacturing organization			
7.2	Individual form(project) of manufacturing organization			
7.3	Job shop organization - Group form of manufacturing organization – essence, advantages, demerits.			
7.4	Group form of manufacturing organization- design			
Topic 8: CELL PRODUCTION		**3**	**2**	
8.1	Essence and main characteristis of the cell manufacturing organization			
8.2	Advantages and demerits of the cell manufacturing organization			
8.3	Types of cell production organizations and prerequisites for introduction			
8.4	Cell production design			
Topic 9: FLOW PRODUCTION		**5**	**4**	
9.1	Essence and main characteristis of the flow production organization			
9.2	Advantages and demerits of the flow production organization			
9.3	Types of flow production organizations and prerequisites for introduction			
9.4	Flow production design			
Topic 10: OPERATIVE MANAGEMENT OF MANUFACTURING		**3**	**2**	
10.1	Essence and tasks of the operative management of manufacturing (OMM)			
10.2	OMM stages			
Topic 11: OPERATIONS IN THE SERVICE SPHERE		**3**	**2**	
11.1	Essence of services			
11.2	Design and process selection in the services sphere			
	Total:	**45**	**30**	

III. FORMS OF CONTROL:

No. by row	TYPE AND FORM OF CONTROL	№	extra-curricu-lar, h.
1.	**Midterm control**		
1.1.	Tests	**2**	**60**
1.2.	Developing and defending case studies from company research	**5**	**50**
	Total midterm control:	**7**	**110**
2.	**Final term control**		
2.1.	Examination (test)	**1**	**55**
	Total final term control:	**1**	**55**
	Total for all types of control:	**8**	**165**

IV. LITERATURE

REQUIRED (BASIC) LITERATURE:

1. Slack, N., Chambers, S., Jonston, R. Operations Management. Pearson Education, 5th ed., 2007.
2.Slack,N., Brandon-Jones, A. Quantitative analysis in operations management. Pearson Education, 2008
3. Heizer, J., Render, B. Operations management. Pearson education Inc, 2011
4. Chase, R., Aquilano, N., and Jacobs, F. Production and Operations Management. Irwin McGraw-Hill, 2007.

RECOMMENDED (ADDITIONAL) LITERATURE:

1. Ronen, B. Pass, S. Focused operations management:achieving more with existing resources. John Wiley &Sons Inc, 2008.
2. Hill, A.The encyclopedia of operations management. Pearson education Inc, 2012.
3. Kumar, S. Suresh, N. Production and operations management. New age international Ltd, 2008