No. 44

Course syllabus for first cycle studies					
1.	**Course title**	Production engineering and management in clothing industry			
2.	**Code**	CDE8M3			
3.	**Study Program**	Clothing design and engineering			
4.	**Study program organizer (unit, institute, department, division)**	Faculty of Technology and Metallurgy, Institute of textile engineering			
5.	**Degree (first, second, third cycle)**	First			
6.	**Academic year / semester**	3rd year 8th Semester	7.	**Number of ECTS**	4
8.	**Instructors**	Prof. Dr. Goran Demboski			
9.	**Prerequisites for course enrollment**				
10.	**Objectives of the course syllabus (competences)**: Developing skills for managing, planning and control of clothing production. Describes the roles and responsibilities of management staff in apparel manufacturing. Gaining knowledge about production line and workplace engineering and the concept of productivity. Describes the costing, budget preparation and price calculation. Knowledge of incentive schemes in clothing manufacturing. Acquaintance of plant layout planning. **Acquired skills (competences):** Acquainted to create production plans and organize production in clothing manufacturing. Understands the concepts of productivity, performance and utilization. Applies techniques of assembly line balancing and workplace engineering. Understands cost calculation and describes incentive schemes. Understands the concept of plant layout planning.				
11.	**Content of the course:** Production management in the garment industry. Organization of the production process. Capacities planning. Production plans. Planning cutting orders and economical cutting quantities. Role of the assembly line supervisor. Analyzing the production loses. Methods improvement. Line balancing. Workplace engineering. Productivity in garment manufacturing. Quality control. Product cost calculation. Incentive systems. Plant layout in garment manufacturing.				
12.	**Study methods**: Lectures, practical, projects, homework, home learning				
13.	**Total available time**	120			

14.	**Allocation of available time**		Lectures, practical, projects, homework, home learning	
15.	**Teaching activities**	15.1.	Lectures-theory	30 hours
		15.2.	Practical (laboratory, auditoria, seminars, teamwork	15 hours
16.	**Other types of activities**	16.1.	Projects	10 hours
		16.2.	Independent tasks	5 hours
		16.3.	Home learning	60 hours
17.	**Grading system**			
	17.1.	Tests		80 points
	17.2.	Seminar work/project		5 points
	17.3.	Activity and participation		5 points
	17.4	Successfully finished practical exercises		10 points
18.	**Grading criteria (points/grade)**	Up to 61 points		5 (five) (F)
		From 61 to 69 points		6 (six) (E)
		From 70 to 79 points		7 (seven) (D)
		from 80 to 89 points		8 (eight) (S)
		From 90 to 95 points		9 (nine) (B)
		from 95 to 100 points		10 (ten) (A)
19.	**Prerequisites for taking the final exam**	Competition of practical exercises and projects		
20.	**Language in which lectures are conducted**	English		
21.	**Method for monitoring the quality of lectures**	Questionnaire		
22.	**LITERATURE**			

22.1. Compulsory literature

No.	Author	Title	Publisher	Year
1.	A. J. Chuter	Introduction to clothing production management 2nd ed.	Wiley-Blackwell	1995
2.	Gordana Colovic	Management of Technology Systems in Garment Industry,	Woodhead Publishing India,	2010
3.				

22.2. Additional literature

No.	Author	Title	Publisher	Year
1.	V. Ramesh Babu	Industrial engineering in apparel production	Woodhead publishing India pvt ltd	2012
2.				
3.				