Faculty of Mechanical Engineering / ROAD TRAFFIC / ORGANISATION AND MANAGEMENT IN TRAFFIC

Course:	ORGANISATION AND MANAGEMENT IN TRAFFIC							
Course ID	Course status	Semester	ECTS credits	Lessons (Lessons+Exer cises+Laboratory)				
11498	Mandatory	6	5	2+2+0				
Programs	ROAD TRAFFIC							
Prerequisites	N/A							
Aims	Studying the legality of the process of organizing work, so that on the basis of these laws, with the use of modern methods and techniques, the work is carried out with the greatest effect. The study of the organization of a company as a broader term than the organization of production, which refers to the entire operation of the company, which, in addition to the coordination of production factors, also includes other functions, such as legalities of management, business and development policies, marketing functions, research and development, information connection, organizational transformation of companies, etc. The goals are also for students to master the techniques of forecasting, multi-criteria decision-making, fleet management, calculation of queue parameters, and more.							
Learning outcomes	After the student completes the exam, he will be able to: • Understands the concept of organization, distinguishes between classical and neo-classical organizational structure, • Understands types of organizational structure, • Performs calculations using the AHP mathematical model • Performs calculations in the function of fleet management - He knows linear programming methods							
Lecturer / Teaching assistant	Aleksandar Vujovic	Aleksandar Vujovic						
Methodology	Lectures, exercises,	consultations. Practical	examples					
Plan and program of work								
Preparing week	Preparation and registration of the semester							
l week lectures	The concept and development of the organization. Types of organizational structure. Science of organization							
I week exercises	The concept and devo organization	The concept and development of the organization. Types of organizational structure. Science of organization						
II week lectures	Development and specificities of organizations in the field of transport. Traffic development strategies. Traffic development strategy in Montenegro - analysis							
II week exercises	Development and sp strategies. Traffic de	Development and specificities of organizations in the field of transport. Traffic development strategies. Traffic development strategy in Montenegro - analysis						
III week lectures	Classical theory of organization (Fayol, Taylor, Weber) - advantages and disadvantages. Practical examples of promotion at the chosen organization. Case analysis from practice.							
III week exercises	Classical theory of organization (Fayol, Taylor, Weber) - advantages and disadvantages. Practical examples of promotion at the chosen organization. Case analysis from practice.							
IV week lectures	Neo-classical theory analysis in the chose	Neo-classical theory of organization (communication, participation, motivation). A practical example or analysis in the chosen organization and the direction of improvement						
IV week exercises	Neo-classical theory of organization (communication, participation, motivation). A practical example of analysis in the chosen organization and the direction of improvement							
V week lectures	Types of organizational structures (line, functional, project, network, process) advantages and disadvantages							
V week exercises	Types of organizational structures (line, functional, project, network, process) advantages and disadvantages							
VI week lectures	Types of organizations (foreign companies, concerns, partnerships). Strategies. Goals. Politics. Missions. Visions. Analysis in the chosen organization.							
VI week exercises	Types of organization Missions. Visions. An	ns (foreign companies, o alysis in the chosen org	concerns, partnerships). S anization.	itrategies. Goals. Politics.				
VII week lectures	Mathematical model function of improving Process) for the nee	Mathematical models and techniques of multicriteria decision-making and their application in the function of improving organizational structures. Application of the AHP method (Analytical Hierarchy Process) for the needs of choosing the optimal solution of a realistic organizational structure						
VII week exercises	Mathematical models and techniques of multicriteria decision-making and their application in the function of improving organizational structures. Application of the AHP method (Analytical Hierarchy							

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		Process) for the needs of choosing the optimal solution of a realistic organizational structure							
VIII week lec	tures	Test I	Test I						
VIII week exe	ercises	Test I							
IX week lect	ures	Fleet organ	Fleet management. Mathematical models. Practical application and analysis at the chosen organization. Case analysis from practice.						
IX week exer	rcises	Fleet organ	Fleet management. Mathematical models. Practical application and analysis at the chosen organization. Case analysis from practice.						
X week lectu	ires	Mathe analys	ematical models for sis at the chosen or	forecasting – Bazey ganization	s formula, Promeet	hey method. Practic	al application and		
X week exer	cises	Mathematical models for forecasting – Bazeys formula, Promeethey method. Practical application and analysis at the chosen organization							
XI week lect	ures	CPM method (critical path method). Practical application and analysis at the chosen organization. PERT method (evaluation and revision method). Practical application and analysis at the chosen organization							
XI week exer	rcises	CPM method (critical path method). Practical application and analysis at the chosen organization. PERT method (evaluation and revision method). Practical application and analysis at the chosen organization							
XII week lect	ures	Ergonomic measurements in traffic. Application of equipment for ergonomic measurements in real conditions.							
XII week exe	rcises	Ergonomic measurements in traffic. Application of equipment for ergonomic measurements in real conditions.							
XIII week lec	tures	Waiting lines. Single-channel and multi-channel queues. Mathematical calculation of queue parameters. Practical application at the selected organization. Participation of experts from practice.							
XIII week exe	ercises	Waiting lines. Single-channel and multi-channel queues. Mathematical calculation of queue parameters. Practical application at the selected organization. Participation of experts from practice.							
XIV week lec	tures	Test II.							
XIV week ex	ercises	Test II.							
XV week lect	tures	Remedial Test I and II							
XV week exe	ercises	Reme	dial Test I and II						
Student wo	orkload								
Per week		-		Per semester					
 5 credits x 40/30=6 hours and 40 minuts 2 sat(a) theoretical classes 0 sat(a) practical classes 2 excercises 2 hour(s) i 40 minuts of independent work, including consultations 		Classes and final exam: 6 hour(s) i 40 minuts x 16 =106 hour(s) i 40 minuts Necessary preparation before the beginning of the semester (administration, registration, certification): 6 hour(s) i 40 minuts x 2 =13 hour(s) i 20 minuts Total workload for the subject: 5 x 30=150 hour(s) Additional work for exam preparation in the preparing exam period, including taking the remedial exam from 0 to 30 hours (remaining time from the first two items to the total load for the item) 30 hour(s) i 0 minuts Workload structure: 106 hour(s) i 40 minuts (cources), 13 hour(s) i 20 minuts (preparation), 30 hour(s) i 0 minuts (additional work)							
Student obligations			Attending lectures and exercises						
Consultations			Every working day in office 419						
Literature		Prof. dr Vujadin Vešović, Organizacija i menadžment u saobraćaju, Saobraćajni fakultet, Beograd,2002. Prof. dr Miodrag Bulatović, Organizacija saobraćajnih preduzeća,. Skripta u elektronskoj formi, Mašinski fakultet, 2008. Prof. Dr Zdravko Krivokapić, Organizacija i menadžment-Mašinski fakultet Pdgorica, 2008							
Examination methods			Activities at classes and exercises 0 - 10 poena Two test 0 - 40 poena Final exams : 0 - 50 poena						
Special rem	narks								
Comment									
Grade:	F		E	D	С	В	A		

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Number	less than 50	greater than or	greater than or	greater than or	greater than or	greater than or
of points	points	equal to 50 points and less than 60 points	equal to 60 points and less than 70 points	equal to 70 points and less than 80 points	equal to 80 points and less than 90 points	equal to 90 points