Faculty of Transportation Engineering and Vehicle Engineering

IMPORTANT NOTES

If for one subject you can find several different types (lecture, practice, laboratory) of courses then please choose one and only one course from each type in order to be able to perform the subject's requirements successfully.Civil Engineering courses are on the website seperately. Courses chosen from the offer of Faculty of Civil Engineering will be checked and arranged individually by the departmental coordinator.

Subject code	Subject name ECTS credit					
BMEKOGT8501	Laser technologies in the vehicle industry 2					
Course type	Course code	Course language	Timetable information			
Lecture	ER_EA01	English	WED:12:15-14:00;			
Principles of lasers. Prop Construction of high pow technology. Laser surfact of laser into the production	perties of the la er laser equipr e treatments (a on technologies	aser beam, beam de nents. Laser cutting alloying, remelting, o s. Rapid prototyping	elivery and forming. Laser-material interactions. g technology. Laser welding technology. Laser dril cladding, cleaning). Adaptive control of lasers. Inte g. Hazards and safety of lasers.	ling egration		
Subject code	Subject name ECTS credit					
BMEKOJHA159	Basics of Vehicle Design and Diagnostics					
Course type	Course code	Course language	Timetable information			
Lecture	ERASMUS_L ECT	English	THU:10:15-12:00;			
Practice	ERASMUS_P RACT	English	THU:10:15-12:00;			
Techniques of the 3D modelling. Structure, and working of a graphics software, geometric kernel systems. Curves, surfaces, modelling techniques. Solid modelling. 2D documentation, drawing generation. Modelling based on the basic shape system, modelling based on the associativity of the planning system. Concurrent engineering. Synchronous modelling. Parts assembly, interference checking. Moving simulation.						
Subject code			Subject name	ECTS credit		
BMEKOKG8517		Financir	ng Transport Infrastructure 4			
Course type	Course code	Course language	Timetable information			
Lecture	ERA_L	English	THU:16:15-18:00;			
Practice	ERA_P	English	THU:18:15-19:00;			
Presentation of theoretical base of transport infrastructure financing and development of skills for practical applications. Financing principles, methods and procedures: Equity Funding, Debt Funding, Private Financing Initiative, PPP for designing, planning, constructing and operating of transport infrastructure. Presentation and application of a software as a decision making tool for preparation of feasibility studies. Risk analysis of financing transport infrastructure. International case studies. The course will consist of 3 hours lessons/week during the 14 weeks (2 hour lecture and 1 hour seminar - where students will be expected to provide brief oral presentations).						
Subject code			Subject name	ECTS credit		
BMEKOKGA226	Airtransport Management I.			2		
Course type	Course code	Course language	Timetable information			
Lecture	ERA_L	English	THU:12:15-14:00;			
Practice	ERA_P	English	THU:12:15-14:00;			
Market of air transport. S	Market of air transport. Strategy. Marketing. Controlling. Charges. Airlines and airports.					
Subject code			Subject name	ECTS credit		
BMEKOKUA201	Transportation Information Systems I.			5		
Course type	Course code	Course language	Timetable information			
Laboratory	ERA_lab	English	MON:15:15-17:00;			
Lecture	ERA_L	English	MON:15:15-17:00;			
Practice	ERA_P	English	MON:15:15-17:00;			
Objective of subject: Info transport process. Specia Satellite based communi- using SQL language.Key	ormation system alities and com cation, positior words: information	ms in passenger an mon features of the ning and tracking sy ation systems used	d freight transport. Phases and functions of the ere information systems in the certain transport mod stems. Creating databases and management of d widely in transportation, databases	ntire es. ata		

Subject code	Subject name			ECTS credit		
BMEKOKUA301	Informatics in Logistics I. 5					
Course type	Course code	Course language	Timetable information			
Laboratory	ERA-lab	English	MON:10:15-12:00;			
Lecture	ERA_L	English	MON:10:15-12:00;			
Practice	ERA_P	English	MON:10:15-12:00;			
Battery Assisted Passive. RTLS solutions. Voice Picking. Biometric Identification Systems. Telematics. InMarSat. EutelTracs. GPS. Basics of WGS84, geoid modelling. SiRF. maps. Fleet management systems. Glonass. Galileo.						
I Subject code	Subject name ECTS cred			I ECTS credit		
BMEKOKUA304		-	Transport Logistics	5		
BMEKOKUA304 Course type	Course code	- Course language	Transport Logistics Timetable information	5		
BMEKOKUA304 Course type Lecture	Course code	Course language	Transport Logistics Timetable information MON:12:15-15:00;	5		
BMEKOKUA304 Course type Lecture Practice	Course code ERA_L ERA_P	Course language English English	Transport Logistics Timetable information MON:12:15-15:00; TUE:12:15-14:00;	5		