Basic information about subject - CURRICULUM	
Academic unit	Faculty of Mechanical Engineering
Program	Traffic and Transport
Branch/Specialisation	
Title of subject	**INTEGRAL AND INTERMODAL SYSTEMS**
Profile / Specialization	
Level of study	Bachelor
Status of subject	Compulsory
Semester	VI
Number of hours per week	2+2
ECTS value	5.0
Teacher of the subject	**Assoc. Prof. Dr. Shpetim Lajqi**

Description of subject	Generally for transport and terminologies used for transport. Reasons for the development of intermodal transport. Transportation processes. Intermodal transport chain. Integral transport systems. Intermodal Transport. Classification of intermodal transport technologies. Pallets, pallet forming, calculating of the number of pallets. Containers, types and classification of containers, operation with container, optimization of container space. Trailers and semi-trailers for the container transport of goods by road. Container wagons. Huckepack technologies. Bimodal technologies. Land - air transport technologies. Land - water transport technologies. Intermodal terminals. Securing loading units during the transport.
Targets of subject	Training of students in the field to use new technologies in transport of Integral and Intermodal Systems.
Expected results of student	Students after the successful completion of this course will: 1. Be able to define the role of intermodal transport for the various participants and users involved in transport, 2. To know the structure of intermodal systems, 3. Identify the advantages and disadvantages of each element in the intermodal system of the transport chain, 4. Be able to compare classical technologies with intermodal technologies in the transport chain, 5. To know how to select the optimal technology in the realization of transport chains, 6. Evaluate the basic performance of the intermodal transport chain, 7. Organize the transport of goods in the intermodal transport chain.

Contribution in the load of student (which should correspond with results of gain of the student)			
Activity	**Hours**	**Days/Weeks**	**Total**
Lectures	2	15	30
Exercises Theoretical /Laboratory	2	15	30
Practical work	1	3	3
Contacts with teacher/consultations	0.25	12	3
Practice in field	0	0	0
Tests, seminars	3	2	6
Homework	2	8	16
Time of self-study of student (in library or at home)	2	12	24
Final preparation for exam	2	5	10
Time spent in evaluation (tests, questionnaire, final exam)	2	2	4
Projects, presentations, etc.	2	1	2
Total			**128**

Methodology of teaching	Lectures with presentations, exercises with concrete tasks and examples, seminar works, tests, discussions and visits to companies which deal with the transport of goods. Online learning based in needs (google meet).	
Report between practical and theoretical part of study	**Theoretical part (%)**	**Practical part (%)**
	40%	**60%**
Evaluation Methodology	*Assessment during the semester:* - 1st test in lecture: ... 30% - 2nd test in lecture: ... 30% - 3rd test in exercise: ... 40% - Participation in lecture: ... 2.5% - Participation in exercises:.. 2.5% - Commitment: ... 5%	*Assessment through exam:* - Written exam: ... 40% - Oral exam: ... 60%
	Scoring: 0 ... 49.9 ..... 5 (five) 50.0 ... 60.9 ..... 6 (six) 61.0 ... 70.9 ..... 7 (seven) 71.0 ... 80.9 ..... 8 (eight) 81.0 ... 90.9 ..... 9 (nine) > 91.00 ..... 10 (ten)	
The way to pass the exam	Tests during semester, seminars works and/or final exam.	

Literature	
Basic literature	[1]. Dr. Shpetim Lajqi. Integral in Intermodal Systems. Dispense for lecture, UP/FME, Prishtina, 2017. [2]. Dr. Shpetim Lajqi. Integral in Intermodal Systems. Dispense for exercises UP/FIM, Prishtina, 2016.
Further literature	[1]. Dr. Nikolina Brnjac. Intermodalni transportni sustavi, Sveučilište u Zagrebu, Fakultet prometnih znanosti, 2012. [2]. Dr. Cvetanovski Ile: Sovremene transportni tehnologi, Manastir, 2007. [3]. Ratko Zelenika: Multimodalni prometni sustavi, Rijekë 2006.

Designed teaching plan	
Week	**Lecture to be held**
First week	Information of student about syllabus content. Obligations and manner of student assessment. Introduction
Second week	Generally for transport and terminologies used for transport
Third week	Reasons for the development of intermodal transport.
Fourth week	Transportation processes. Loading process. Transportation process. Download process
Fifth week	Intermodal transport chain
Sixth week	Integral transport systems. Basic meanings
Seventh week	Intermodal transport. History and ways of development of intermodal transport. Concepts, definitions, policies and role of governments for intermodal transport
Eighth week	*First assessment* Classification of intermodal transport technologies
Ninth week	Pallets, pallet forming, calculating of the number of pallets. Containers, types and classification of containers, operation with container, optimization of container

	space.
Tenth week	Trailers and semi-trailers for the container transport of goods by road. Container wagons
Eleventh week	Huckepack technologies. Bimodal technologies
Twelfth week	Land - air transport technologies. Land - water transport technologies
Thirteenth week	Intermodal terminals
Fourteenth week	Securing loading units during the transport
Fifteenth week	*Final assessment*