



UNIVERSITY OF SARAJEVO – FACULTY OF SCIENCE
SUBJECT DESCRIPTION

Form SP2

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Subject code: DG-528-2	Subject name: Transportation planning		
Cycle: II	Year: I	Semester: I	ECTS credits: 3
Status: optional		Contact hours: 45 Lectures: 30 Exercises: 15	
Assigned professors and assistants:	Professors and assistants from the field to which the subject belongs		
Prerequisites:	/		
Subject objectives:	<p>Introduction to methods of transportation modeling, planning and evaluation. Developing knowledge about the possibilities of transportation infrastructure management.</p> <p>Acquisition of skills necessary for managing and managing the transport system in a certain geospace.</p> <p>Recognizing the importance and gaining knowledge of corridor planning and local planning.</p>		
Teaching units:	<ol style="list-style-type: none"> 1. Introduction to transportation planning. Characteristics of the transport system and database. 2. Land use and urban design. Environmental considerations in transportation planning. 3. Sources and strategies of financing the transport system 4. Transportation requirements and transportation network modeling 5. Evaluation and prioritization methods 6. Transportation infrastructure management 7. Test 8. Road planning 9. Management and administration of the transport system. Parking zone planning. 10. Transit planning. Planning of pedestrian and bicycle traffic. 11. National transportation planning 12. Transportation planning in agglomerations 13. Corridor planning 14. Local transportation planning 15. Safety aspects in the transportation planning process. Public participation in traffic planning. 		



<p>Learning outcomes:</p>	<p>Knowledge:</p> <ul style="list-style-type: none"> • <i>Understanding and critical analysis of transport systems and transportation development strategies. Recognizing the importance of different levels of transportation planning and analytical connection of planning methods with a specific geographical area;</i> <p>Skills:</p> <ul style="list-style-type: none"> • <i>Application of transportation planning methods and models at different hierarchical spatial levels; Calculation and evaluation of various geographical data for the purpose of quality and sustainable management and administration of transport systems;</i> <p>Competencies:</p> <ul style="list-style-type: none"> • <i>Evaluation and comparison of different transportation spatial planning strategies and models; creation and recommendation of transport network modeling in specific geographical units.</i> 																																									
<p>Teaching methods:</p>	<p><i>Multimedia presentation and discussion (lectures); practical work, educational material analysis and discussion (exercises).</i></p>																																									
<p>Knowledge testing methods with grading structure ¹:</p>	<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 80%;"></th> <th style="text-align: right; width: 20%;">Points</th> </tr> </thead> <tbody> <tr> <td><i>Attendance</i></td> <td style="text-align: right;">5</td> </tr> <tr> <td><i>Participation on lectures</i></td> <td style="text-align: right;">5</td> </tr> <tr> <td><i>Tests</i></td> <td style="text-align: right;">25</td> </tr> <tr> <td><i>Seminar paper</i></td> <td style="text-align: right;">25</td> </tr> <tr> <td><i>Final exam</i></td> <td style="text-align: right;">40</td> </tr> <tr> <td><i>TOTAL</i></td> <td style="text-align: right; border-top: 1px solid black;">100</td> </tr> </tbody> </table> <p>Assessment:</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%;">Grade</th> <th style="width: 45%;">ECTS grade</th> <th style="width: 40%;">Points scale</th> </tr> </thead> <tbody> <tr> <td>10</td> <td>(A) excellent</td> <td style="text-align: right;">95 - 100</td> </tr> <tr> <td>9</td> <td>(B) very good</td> <td style="text-align: right;">85 - 94</td> </tr> <tr> <td>8</td> <td>(C) good</td> <td style="text-align: right;">75 - 84</td> </tr> <tr> <td>7</td> <td></td> <td></td> </tr> <tr> <td></td> <td>(D) satisfactory</td> <td style="text-align: right;">66 - 74</td> </tr> <tr> <td>6</td> <td>(E) sufficient</td> <td style="text-align: right;">55 - 64</td> </tr> <tr> <td>5</td> <td>(F, FX) insufficient</td> <td></td> </tr> <tr> <td>55</td> <td></td> <td></td> </tr> </tbody> </table>		Points	<i>Attendance</i>	5	<i>Participation on lectures</i>	5	<i>Tests</i>	25	<i>Seminar paper</i>	25	<i>Final exam</i>	40	<i>TOTAL</i>	100	Grade	ECTS grade	Points scale	10	(A) excellent	95 - 100	9	(B) very good	85 - 94	8	(C) good	75 - 84	7				(D) satisfactory	66 - 74	6	(E) sufficient	55 - 64	5	(F, FX) insufficient		55		
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¹ The structure of points and point criteria for each subject is determined by the Council of the organizational unit before the beginning of the academic year in which the subject is taught in accordance with Article 64, paragraph 6 of the Law on Higher Education of Sarajevo Canton



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Literature²:

MANDATORY:

1. Janić, M. 2017. *Transport systems: Modelling, Planning and Evaluation*. London; CRC Press.
2. Žegarac, Z. 1998. *Infrastruktura*. Beograd: Geografski fakultet.
3. Bublin, M. 2007. *Planiranje saobraćaja i saobraćajnica*. Sarajevo: Građevinski fakultet.
4. Nurković, R. 2012. *Urbana geografija svijeta*. Tešanj: Planjax.
5. Meyer, M. 2016. *Transportation planning handbook*. New York: Wiley.

² The Senate of the higher education institution as an institution or the council of the organizational unit of the higher education institution as a public institution determines mandatory and recommended textbooks and manuals, as well as other recommended literature on the basis of which exams are prepared by a special decision which must be published on its website before the beginning of the academic year in accordance with Article 56, paragraph 3 of the Law on Higher Education of the Sarajevo Canton