Subject code: *RPP-307-2*	**Subject name:** *Soil and vegetation in the regional and spatial planning*		
Study cycle: *I*	**Year:** *III*	**Semester:** *VI*	**ECTS credits:** *5*
Status: *Mandatory*		**Contact hours:** *60* *Lectures: 30* *Exercises: 30*	
Assigned professors and assistants:	*Teachers and associates who are selected for the teaching area to which the subject belongs*		
Prerequisits:	*/*		
Subject objectives:	*The main goal is to train students to know how to research and process all available materials in the field of soil and vegetation for the needs of regional and spatial planning, as well as to present the processed material in regional and spatial plans.*		
Teaching units:	1. *The functions of the soil ecosystem. Soil value* 2. *Evaluation of soil* 3. *Soil assessment methodology* 4. *Soil degradation and soil remediation measures.* 5. *Application of GIS in soil analysis* 6. *Soil classification system in Bosnia and Herzegovina and the World* 7. *Legislative soil protection* 8. *Partial exam* 9. *Introductory lectures (vegetation)* 10. *The importance of vegetation research in regional and spatial planning* 11. *Regularity of distribution of vegetation in the horizontal profile* 12. *Regularity of distribution of vegetation on the vertical profile* 13. *Vegetation of continental biogeographical region* 14. *Vegetation of the Mediterranean biogeographical region* 15. *Vegetation of Euro-Siberian-Boramerical region*		
Learning outcomes:	**Knowledge:** – *analyzes the function of soil and vegetation in the ecosystem* – *recognizes soil and vegetation endangerment factors* – *identifies and analyzes soil protection opportunities* – *classifies soils nationally and internationally* – *explains the regularity of vegetation distribution on the vertical and horizontal profile* **Skills***:*		

<table>
<tr><td></td><td>– independently applies modern methods of soil and vegetation research,
– independently applies modern geoinformatics and cartographic methods in soil and vegetation analysis for the purpose of regional and spatial planning
Competences:
– creates spatial models and databases for the purpose of regional and spatial planning of soil and vegetation
– independently evaluates soil and vegetation for the purpose of regional and spatial planning.</td></tr>
<tr><td>Teaching methods:</td><td>Multimedia presentation and discussion (lectures); practical work, educational material analysis and discussion (exercises).</td></tr>
<tr><td>Knowledge testing methods with grading structure[1]:</td><td>
<table>
<tr><td></td><td>Points</td></tr>
<tr><td>Attendance</td><td>5</td></tr>
<tr><td>Participation on lectures</td><td>5</td></tr>
<tr><td>Tests</td><td>40</td></tr>
<tr><td>Seminar paper</td><td>10</td></tr>
<tr><td>Final exam</td><td>40</td></tr>
<tr><td>TOTAL</td><td>100</td></tr>
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Assessment:
<table>
<tr><td>Grade</td><td>ECTS grade</td><td>Points scale</td></tr>
<tr><td>10</td><td>(A) excellent</td><td>95 - 100</td></tr>
<tr><td>9</td><td>(B) very good</td><td>85 - 94</td></tr>
<tr><td>8</td><td>(C) good</td><td>75 - 84</td></tr>
<tr><td>7</td><td>(D) satisfactory</td><td>66 - 74</td></tr>
<tr><td>6</td><td>(E) sufficient</td><td>55 - 64</td></tr>
<tr><td>5</td><td>(F, FX) insufficient</td><td>55</td></tr>
</table>
</td></tr>
<tr><td>Literature[2]:</td><td>Mandatory:
1. Resulović, H., Čustović, H., 2002: Pedologija - Opći dio, Univerzitet u Sarajevu;
2. Husnjak, S.,Bogunović, M., 2002: Opasnost od erozije tla vodom na poljoprivrednom zemljištu u agroregijama Hrvatske, Agronomski glasnih 5-6, 267-280.</td></tr>
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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

[2] The Senate of the higher education institution as an institution or a 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 act which is required to 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.

	3. *Bogunović, M., Vidaček, Ž., Husnjak, S., Sraka, M., Mihalić, A., 1998:Bonitetno vrednovanje i prijedlog zaštite tala primorsko-goranske regije, Agronomski glasnih 3.,99-121.* 4. *Đug, S., Škrijelj, R., 2009: Biogeografija. Prirodno-matematički fakultet Sarajevo.* 5. *Škrijelj, R., Đug, S., 2009: Uvod u ekologiju životinja. Prirodno-matematički fakultet Sarajevo.* **Recommended:** 1. *Lončar, J., Cvitanović, M., 2012: (Post)socijalizam i okoliš: promjena kulturnog krajobraza Pridravske nizine Osjeka u posljednjih pedeset godina, Sociologija i prostor, 50., 327-343.* 2. *Rahman, A., Kumar, S., Fazal, S., Siddiqui, A. M., 2012: Assessment of Land use/land cover Change in the North-West District of Delhi Using Remote Sensing and GIS Techniques, Indian Socciety of Remote Sensing, 689-697.* 3. *Dragičević, N., Karleuša, B., Ožanić, N., 2016: Pregled primjene Gavrilovićeve metode (metoda potencijala erozije), Građevinar 9., 715-725.*