

Course title : Landfill design

Course Basic Information			
Academic Unit:	Faculty of Civil Engineering		
Course title:	Landfill Design		
Level:	BSc		
Course Status:	Elective		
Year of Study:	Second (II), IV th semester		
Number of Classes per Week:	2+1		
ECTS Credits:	3		
Time /Location:			
Teacher:	Prof. Dr. Neritan Shkodrani		
Contact Details:	Email: Tel:		
Course Description:	Course: Landfill design includes solid waste issues, landfill planning, storage technology, landfilling effects and their characteristics, design and implementation of landfills, landfill sites, geotechnical properties of the landfill - as a geotechnical structure, Remediation of landfills, Equipment at landfills, Landfill management and work control, Protection of water at landfills.		
Course Goals:	Course Objectives: Know the basics of influencing factors in landfills, which serve to design and repair landfills.		
Expected Learning Outcomes:	Upon completing the lectures of this course, students will have understood the basic principles of landfill design, will be able to carry out field examination tests of the deposited materials, the way of achieving base isolation from the filters derived from the body landfill, ventilation of landfills, planning and storage technology of solid materials, type and manner of landfill mechanics during landfill implementation phase, landfill management and control of landfill exploitation, analysis of stability of the landfill from the geomechanical parameters gained on the ground as well as to work on the landfill sanitation project.		
Student Workload (should be in compliance with student's Learning Outcomes)			
Activity	Hours	Day/ Week	Total
Lectures	2	15	30
Theory/ Lab Work	0	0	0
Practical Work	0	0	0

Contact Hours with Teacher /Consultations during Office Hours	1	15	15
Field Work	1	2	2
Colloquium, Seminars	1	2	2
Homework	1	2	2
Self-study Time (in the Library or at Home)	1	15	15
Final Exam Preparation	1	5	5
Evaluations (Tests, Quiz, Final exam)	1	1	1
Projects, Presentations, etc.	1	3	3
Total			75
Teaching Methods:	Lectures, exercises and elaborates, "In situ"		
Assessment Methods:	<p>In the assessment should be assigned the percentage of each estimate intermedier partial or final assessment. One of the ways the assessment would have been as follows:</p> <p>The first assessment: 25%</p> <p>Homework or other commitments 10%</p> <p>Regular attendance 10%</p> <p>Final Exam 55%</p> <p>Total 100%</p>		
Primary Literature:	<p>[1] Dr.sc. Qani V. KADIRI, Authorised lecture of "Landfill Design", Faculty of Civil Engineering & Arhitecture, Prishtinë</p> <p>[2] Braja Das, Principle of Geotechnical Engineering, USA</p>		
Additional Literature:	[3] Timothy G. Townsend&other: Sustainable Practices for Landfi ll Design and Operation		
Designed teaching plan:			
Week	Title of the Lecture		
Week 1:	Introduction to the problems of landfills		
Week 2:	The problem of solid waste		
Week 3:	Landfill planning		
Week 4:	Landfill planning		
Week 5:	Storage technology		
Week 6:	Accompanying effects on landfills and their characteristics		
Week 7:	Accompanying effects on landfills and their characteristics		
Week 8:	Design and realization of landfills		
Week 9:	Design and realization of landfills		
Week 10:	Equipment at landfills		

Week 11:	Geotechnical properties of the landfill - as a geotechnical structure
Week 12:	Remediation of landfills
Week 13:	Remediation of landfills-continue
Week 14:	Landfill management and work control
Week 15:	Water protection at landfills

Academic Policies and Code of Conduct

The teacher assigns the criteria for regular attendance in classes and rules of conduct, to maintain the peace in teaching, disconnected mobile phones, entrance in room with time, etc.)