Course title: Air pollution control

Course Basic Information	
Academic Unit:	Faculty of Civil Engineering
Course title:	Air pollution control
Level:	Bachelor
Course Status:	Elective
Year of Study:	Second year
Number of Classes per Week:	2+1
ECTS Credits:	3
Time /Location:	From schedule
Teacher:	Dr.Anjeza Alaj
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Course Description:	This course enables students to acquire theoretical and practical knowledge of air pollutants from emissions, road traffic, air traffic, and other pollutants.
Course Goals:	Meaning of physicochemical, meteorological, climatologically and complex interactions within the system of air quality monitoring at country level. Establish a database of monitored data in the air quality monitoring network from the emission process. Control of air quality even in closed facilities such as factories, schools, and other premises.
Expected Learning Outcomes:	Upon completion of this course the student will be able to: 1. To be independent in its work to analyze all monitored air quality parameters according to the air quality monitoring network nationwide. Air dispersion and wind scattering dispersion on a national scale. 2. To gain basic knowledge about the application of contemporary methods in the air quality monitoring system through physical chemical analysis in laboratories. Acquire knowledge on the calibration and maintenance of measuring and analyzing equipment in laboratories that are obtained and certified for physical-chemical quality assay of air.

Student Workload (should be in compliance with student's Learnign Outcomes)			
Activity	Hours	Day/ Week	Total
Lectures	2	15	30
Theory/ Lab Work/Exercises	1	15	15
Practical Work			
Consultations with the teaher	1	15	15
Field Work	1	1	1
Test, seminar paper	2	2	4
Homework	1	1	1
Self-study (library or home)	3	1	3
Preparation for final exam	2	2	4
Assessment time (test, quiz, final exam)	2	2	4
Projects, presentations, etc.	1	1	1
Total			75

Teaching Methods:	Lectures, exercises, practical work in groups, seminars, consultations, interactive approaches, student presentations etc.
Assessment Methods:	Regular attendance 5%, Individual assignments performed in class 10%; Homework 25% First evaluation 25% Final exam 35%

Primary Literature:	1. Kimia e mjedisit grup autoresh FSHMN Tirane 2010 2. MM dhe PU Monitorimi i cilësisë se ajrit urban Tirane 2007 3. Kimia e mjedisit Akademik N.Daci 2005
Additional Literature:	http://www.ammk-rks.net https://mmph.rks-gov.net

Designed teaching plan	
Week	Title of the Lecture
Week 1:	Legislation
Week 2:	Air pollution
Week 3:	Carbon monoxide

Week 4:	Emitting greenhouse gases
Week 5:	Pollution and air quality monitoring
Week 6:	Pollution from manufacturing industries
Week 7:	Dust particles suspended in air called PM10 and PM2.5
Week 8:	Contaminants coming from hydrocarbons
Week 9:	Air pollution from vehicles
Week 10:	Treatment of used oils
Week 11:	Green transport
Week 12:	Hybrid vehicles
Week 13:	Administrative Guide on Oil Quality
Week 14:	Permitted air emission rates from mobile sources
Week 15:	Administrative Guide on Air

Academic Policies and Code of Conduct

We start and finish class on time.
Tools used during class must be cleaned and stored away at the end of class.
Mobile/smart phones, and other electronic devices (e.g. iPods) must be turned off (or on vibrate) and hidden from view during class time.
Laptop and tablet computers are allowed for quiet use only; other activities such as checking personal e-mail or browsing the Internet are prohibited.