

Course title	Air Pollution	
Course code	CH 5107	
Course type	Elective course	
Academic year	2017/ 2016	
Coordinator	Prof. Ali H. Gemeay	
Other Staff	-----	
Semester	First semester	
Level	Bio-analytical Diploma	
Pre-Requests		
Course Delivery	Lecture	1 4 x 1 Lectures
	Practical	Non
	Credit	1 h
Parent Department	Chemistry Department	

Course contents

Lecture No	Description
Lecture 1	The composition of atmosphere; Classification of air pollutants
Lecture 2	Particulates and gaseous pollutants – Sources of air pollution.
Lecture 3	Introduce the theory of dispersion of air pollution in the atmosphere;
Lecture 4	Effects of air pollution on human beings, materials, vegetation, animals
Lecture 5	Introduce the methods to estimate air pollution emission from road transport and industrial sources
Lecture 6	Global warming-ozone layer depletion
Lecture 7	Concepts of control – Principles and design of control measures
Lecture 8	Mid-Term Examination
Lecture 9	Air pollution control technologies of particulate and gaseous pollutants;
Lecture 10	Selection criteria for equipment - gaseous pollutant control by adsorption, absorption, condensation, combustion
Lecture11	Pollution control for specific major industries
Lecture 12	Photochemical Smog, Ozone
Lecture 13	Remote Sensing .
Lecture 14	Exposure and health effects