

COURSE ID SHEET



Course No.	5301	NTUA							
Semester:	8,10	Core		Elective		Specialization	X		
Title:	DISPERSION OF POLLUTANTS								
Aim:	Addressing the environment as pollution recipient. Presentation of the principles governing the dispersion of pollutants into air, water and soil. Application of computational simulation models for the calculation of pollutants' concentration.								
Content:	The environment as pollution recipient. Mechanisms and processes in Nature. • Dispersion in air: Calculation of pollutants transport from various sources. Computational models of dispersion in air. Application of dispersion models software. • Dispersion in water and soil: Transport in water: Completely-mixed systems. Partially-mixed systems. Conventional pollutants, dissolved oxygen, pathogens, toxic substances. Rivers – Streeter-Phelps models. Lakes – eutrophication. Transport in soil: underground water. Pollution and transport of dissolved pollutants. Non-saturated zone.								
Hours per semester:	LECTURES	24	EXERCISES	-	LABORATORY	36	HOME-WORK	115	TOTAL HOURS: 175
Student performance/evaluation:	The evaluation of the students will be done through: • A Final (written) Examination, and • Exercises (E). The Final Grade results as follows: Final Grade = max{(FE), [0.7 x (FE) + 0.3 x (E)]}								