COURSE ID SHEET

Course No.	5268			NT	UA				30,20
Semester:	1	Core	X		Elec	tive			Specialization
Title:	MATHEMATICS I (Calculus of functions of one real variable)								
Aim:	Understanding the concepts of convergence of sequences and series of real numbers. Learning of power-series expansions and basic integration techniques. Applications to calculating areas, volumes, arc-lengths.								
Content:	 Sequences and series of real numbers. Limits and continuity. Trigonometric and hyperbolic functions and their inverses. Differential calculus (Taylor's theorem). Power-series expansions. Integral calculus (integration techniques). Applications of the definite integral. Improper integration. Differential equations of order at most two with constant coefficients. 								
Hours per semester:	LECTURES	52	EXERCISES	-	LABORA- TORY	-	HOME- WORK	98	TOTAL HOURS: 150
Student performance/e valuation:	Comprehe	nsive	final exam.						