

MARIA GABRIELLA CIMORONI

PROGRAMME OF "MATHEMATICAL ANALYSIS 1"		
<ul style="list-style-type: none"> • CODE: I0195 • TYPE OF COURSE UNIT: COMPULSORY • LEVEL OF COURSE UNIT (E.G. FIRST, SECOND OR THIRD CYCLE; SUB-LEVEL IF APPLICABLE): FIRST CYCLE • YEAR OF STUDY (IF APPLICABLE); SEMESTER: FIRST YEAR, FIRST SEMESTER 		
NUMBER OF ECTS CREDITS: 9 (WORKLOAD IS 90 HOURS; 1 CREDIT = 25/30 HOURS OF TOTAL ACTIVITIES)		
Teacher: Prof. Maria Gabriella Cimoroni		
-1	Course objectives	THE GOAL OF THE COURSE IS TO GIVE TO THE STUDENT THE BASIC METHODS AND TOOLS OF MATHEMATICAL ANALYSIS.
2	Course content and Learning outcomes (Dublin descriptors)	<p>TOPICS OF THE COURSE INCLUDE: SEQUENCES, SERIES, LIMITS AND CONTINUITY, DIFFERENTIAL AND INTEGRAL CALCULUS FOR FUNCTIONS OF ONE REAL VARIABLE.</p> <p>ON SUCCESSFUL COMPLETION OF THIS COURSE, THE STUDENT SHOULD</p> <ul style="list-style-type: none"> - HAVE A GOOD KNOWLEDGE AND UNDERSTANDING OF THE MAIN CONCEPTS AND TECHNIQUES OF MATHEMATICAL ANALYSIS, - BE ABLE TO APPLY HIS KNOWLEDGE AND UNDERSTANDING TO DEAL WITH BASIC PROBLEMS ON APPLIED MATHEMATICS AND ENGINEERING, - DEMONSTRATE SKILLS IN MATHEMATICAL REASONING AND ABILITY TO CONCEIVE A PROOF, - UNDERSTAND AND EXPLAIN THE MAIN NOTIONS AND RESULTS OF MATHEMATICAL ANALYSIS, - DEMONSTRATE CAPACITY FOR READING AND UNDERSTAND OTHER TEXTS ON RELATED TOPICS.
3	Prerequisites and learning activities	PREREQUISITES: NONE
4	Teaching methods and language	<p>LECTURES AND EXERCISES.</p> <p>LANGUAGE: ITALIAN</p> <p>REF. TEXT BOOKS</p> <p>M. BRAMANTI, C. D. PAGANI, S. SALSA, ANALISI MATEMATICA 1, EDITORE ZANICHELLI</p> <p>S. SALSA, A. SQUELLATI, ESERCIZI DI ANALISI MATEMATICA 1, EDITORE ZANICHELLI</p> <p>P. MARCELLINI, C. SBORDONE: ESERCITAZIONI DI MATEMATICA, LIGUORI EDITORE</p>
5	Assessment methods and criteria	WRITTEN AND ORAL EXAM, PARTIAL TEXTS DURING THE COURSE