



Programme of Module "Analisi Matematica A mod. II"

- Code: DT0017
- Type of course unit: Compulsory (Bachelor Degree in Mathematics curriculum Generale)
- Level of course unit: Undergraduate Degrees
- Semester: 1

Number of ects credits: (Bachelor Degree in Mathematics) 6 (workload 150 hours)

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1	Course objectives	The aim of the course is to provide a knowledge of the integral calculus for functions of a real variable.
2	Course content and learning outcomes (dublin descriptors)	<p>Topics of the module include:</p> <ul style="list-style-type: none"> • Taylor polynomials • Integral calculus • Numerical series • An outline of ordinary differential equations <p>On successful completion of this module, the student should :</p> <ul style="list-style-type: none"> • Have profound knowledge of the basic theory of integral calculus for functions of a real variable. Understand the fundamental concepts of the basic theory for functions of a real variable and their connections and be aware of potential applications in other fields. • Have knowledge and understanding of integral calculus for functions of a real variable. • Demonstrate skill in Mathematical reasoning and ability to conceive a proof. • Understand and explain the meaning of complex statements using Mathematical notation and language. • Demonstrate capacity for reading and understand other texts on related topics.
3	Course prerequisites	
4	Teaching methods and language	<p>Lectures and exercises</p> <p>Language: Italian</p> <p>Reference textbooks</p> <ul style="list-style-type: none"> • Giusti, <i>Analisi Matematica I</i>. Boringhieri ed. • Acerbi, Buttazzo, <i>Primo Corso di Analisi Matematica</i>. Pitagora ed.
5	Assessment methods	Written and Oral exam (Mathematical Analysis A)