



Week 1
Binomial theorem, arithmetic, geometric and harmonic means and series.
Week 2
Theory of equations, Mathematical induction, basic matrix algebra.





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	Week 3			
	Trigonometric functions.			
	Week 4			
	Trigonometric formulae and equations.			
	Week 5			
	Relations between sides and angles of a triangle, cartesian coordinates.			
	Week 6			
	Equation of a straight line.			
	Week 7			
	Equation of a circle, functions of a real variable.			
	Week 8			
	Limits and continuity, derivatives.			
	Week 9			
	Geometrical interpretation of the derivative, maximum and minimum values of a			
	function.			
	Week 10			
	Indefinite and definite integrals.			
	Week 11			
	Integration by parts, substitution and partial fra	ictions.		
	Week 12			
	Application of definite integrals.			
	10. Initial competences			
	Secondary school knowledge of mathematics.			
	11. Final competences			
To have the mathematical background that is needed to follow the mathematics courses				
the program.				
	12. Teaching methods			
	Lectures			
	Guided exercises			
13. Learning Materials				
	A combination of notes provided in the class and	power point slides.		
	14. References			
	A text book will be provided.			
	15. Evaluation moments			
	Periodic and non-periodic evaluation			
16. Evaluation methods				
This is a non credit course.				
	Mid-term exam: Written exam with open	20%		
	questions			
	Final Exam: Written exam with open	80%		
1	questions			