Mathematics A1
Schedule

2011/12/1

No. week			Topics	
1	09.05. Mo 09. 06 Tue 09.08. Thu		Introduction to complex numbers. Operations, solving equations Complex numbers (cont.) Complex numbers (cont.)	
2	09. 12. Mo 09. 13 Tue 09.15. Thu		Vectors in 3-space Lines and planes in 3-space NO CLASS (University day)	Quiz 1
3	09. 19. Mo 09. 20. Tue 09. 20. Thu		Lines and planes in 3-space (cont.) Numerical sequences Numerical sequences	Quiz 1
4	09. 26. Mo 09. 27. Tue 09.29. Thu		Elementary functions, inverse function Inverse trig functions , Hyperbolic functions and their inverses Limit of functions	Quiz 3
5	10. 03. Mo 10. 04. Tue 10. 06. Thu		Limit of functions (cont.) Continuity. Derivation, rules of differentiation.	Quiz 4
6	10. 10. Mo 10. 11. Tue 10. 13. Thu		Derivatives of elementary functions Practice MIDTERM TEST 1	
7	10. 17. Mo 10. 18. Tue 10. 21. Thu		Mean value Theorem L'H rule. Extremal values, concavity. Curve sketching	Quiz 5
8	10. 24. Mo 10. 25. Tue 10. 27. Thu		Curve sketching Optimization Derivation of impicitely given functions	Quiz 6
9	10. 31. Mo 11. 01. Tue 11. 03. Thu		NO CLASS (day off, national holiday) NO CLASS (day off, national holiday) (make up class will be scheduled on Derivation of parametrized curves) Taylor-polynomial, Taylor's theorem	Quiz 7
10	11. 07. Mo 11. 08. Tue 11. 10. Thu		(cont.) Indefinite integral Integration by parts, rational fractions	Quiz 8
11	11. 14. Mo 11. 15. Tue 11. 17. Thu		Integration by substitution. Practice of integration techniques Definite integral. Applications: area of region between curves, arc length	Quiz 9
12	11. 21. Mo 11. 22. Tue 11. 24. Thu		Practice Practice MIDTERM TEST 2	
13	11. 28. Mo 11. 29. Tue 12. 01. Thu		More applications of Definite integrals Surface area, volume of solids of rotation, centroid of regions Improper Integrals	Quiz 10
14	12. 05. Mo 12. 06. Tue 12. 08. Thu		Improper integrals (cont.) Improper integrals (cont.) REP. TEST	

Sept. 4th , 2011

Dr. Anikó Csákány