

ATENISI UNIVERSITY

Calculus 100L COURSE PLAN:

Course Contents: *The real number system; Functions, Limits and Continuity; Differentiation and its Application, Special Functions(log, exp and trig functions); Integration and its application; Vector geometry in 2- and 3-space; Function of 2 variables; First order differential equation.*

SEMESTER 2 COURSE PLAN

17 weeks (June 6th - September 30th):

	Topics	Duration	Period	Check
1	Revision-Exam 1, Ass 3, Differentiation, Log, exp & trig function	1&1/2 wks	6th - 14th June	6 lectures -3
2	Anti-derivatives, Riemann Integral & definite integral	2 wks	15th - 28th June	8 lectures
3	Indefinite Integrals and technique of integration	2 wks	29th - 13th July	8 lectures
4	Numerical Integration and Improper Integral	2 wks	14th - 27th July	8 lectures
5	Vector geometry - 2 & 3 space	2 wks	28th - 10th August	8 lectures
6	Partial derivatives and the differential	1&1/2 wks	11th - 22nd August	6 lectures
7	Directional derivatives, total derivative and change of variable	2 wks	23rd - 6th Sept	8 lectures
8	Tangent planes, normals and stationary points	2 wks	7th - 20th Sept	8 lectures
9	Differential Equation - separable, homogeneous, exact, linear equation and application	2 wks	21st -	8 lectures