SILVER OAK COLLEGE OF ENGINEERING & TECHNOLOGY

CIVIL ENGINEERING DEPARTMENT Mid Semester Exam 1 Syllabus

Date: 22/01/2018

Name of Subject Numerical & Statistical Methods

Subject Code 2140606

Semester & Division 4th CL (Div. A, B, C)

Sr. No.	Topics
1	Roots of Algebraic and Transcendental Equation Bisection, false position, Secant methods, Newton – Rephson methods
2	Numerical Integration Newton-Cotes formula and Trapezoidal formula, Simpson's formulae, Gaussian quadrature formulae
3	Finite Differences and interpolation
	Finite Differences
	Forward, Backward differences
	Central operators
	Interpolation by polynomials
	Newton's forward, Backward interpolation
	Gauss and Stirling's central difference formulae
	Newton's divided formulae
	Lagrange's formulae for unequal intervals