

**TENTATIVE TEACHIN PLAN****(For Practical)**DEPARTMENT / INSTITUTE / DIRECTORATE/: **BSRS****Name of Teacher:** Ms. Sania Qureshi**Subject:** Numerical Analysis and Computer Applications**Batch:** 13ME **Year:** 3<sup>rd</sup> **Semester:** 5<sup>th</sup>**Code:** MTH 301 (03+01) C.H.**Semester Starting Date:** 05-01-2015**Semester Suspension Date:** 26-04-2015

S. No.	Topic	No. of Lab hours required
01	Introduction to C++ Programming and IDE of Dev C++	03
02	Absolute, Relative and Percentage Errors	03
03	Bisection and Regula-Falsi Methods	03
04	Newton-Raphson, Modified N-Raphson and Fixed Point Iteration Methods	03
05	Jacobi's and Gauss-Seidel Methods for Linear Algebraic Systems	03
06	Power's Method for Dominant Eigen Value and its associated Eigen Vector	03
07	Forward, Backward and Divided Difference Table	03
08	Newton's Forward, Backward and Divided Difference Interpolation Formulae	03
09	Lagrange's and Stirling's Interpolation Formulae	03
10	First and Second derivative using Numerical Differentiation	03
11	Trapezoidal, Simpson and Weddle's Rule for Numerical Integration	03
12	Taylor Series Expansion and Picard's Method for ODEs	03
13	Explicit Runge – Kutta Methods from order 1 to 4	03
14	Adam's Bashforth, Adam's Moulton and Predictor Corrector Methods	03
	<b>Total Lab Hours</b>	<b>42</b>

**Signature of Teacher:****Date:** 05/01/2015**Remarks of DMRC:****Signature of Chairman / Director:****Date:** 07/01/2015