B. P. Poddar Institute of Management & Technology

Department of Information Technology

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List of Experiments conducted in the Lab

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ExpNo.	*Name of Experiment*	*CO*	*PO*	*PSO*
1	Find out the value of dependent variable using Newton Forward Interpolation [for equi-space of independent variable]	***CO2***	***PO1-PO4,PO9-PO10***	***PSO1***
2	Find out the value of dependent variable using Newton Backward Interpolation [for equi-space of independent variable]	***CO2***	***PO1-PO4,PO9-PO10***	***PSO1***
3	Find out the value of dependent variable using Lagrange's Interpolation Formula [for unequi-space of independent variable]	***CO2***	***PO1-PO4,PO9-PO10***	***PSO1***
4	Evaluate Integration using Trapezoidal Rule	***CO3***	***PO1-PO4,PO9-PO10***	***PSO1***
5	Evaluate Integration using Simpson's 1/3rd Rule	***CO3***	***PO1-PO4,PO9-PO10***	***PSO1***
6	Solve the transcendental equation using Bisection Method	***CO4***	***PO1-PO4,PO9-PO10***	***PSO1***
7	Solve the transcendental/Algebraic equation using Newton Raphson Method	***CO4***	***PO1-PO4,PO9-PO10***	***PSO1***
8	Solve the transcendental equation using Regula Falsi Method	***CO4***	***PO1-PO4,PO9-PO10***	***PSO1***
9	Solve the system of linear equations using Gauss elimination Method	***CO4***	***PO1-PO4,PO9-PO10***	***PSO1***
10	Solve the system of linear equations using Gauss Jordan Method	***CO4***	***PO1-PO4,PO9-PO10***	***PSO1***
11	Solve the system of linear equations using Gauss Seidel Method	***CO4***	***PO1-PO4,PO9-***	***PSO1***

			PO10	
12	Solve the 1st order differential equations using RK Method of order 4	***CO2,CO4***	***PO1-PO4,PO9-PO10***	***PSO1***
13	Assignments on Real life Applications of Numerical Method Programming		***PO2-PO6,PO9-PO10,PO12***	***PSO1***