LESSON PLAN of SEMISTER 1

Session 2019:(July-Dec)

CORE COURSE – 1 NAME OF THE COURSE - DIFFERENTIAL EQUATIONS

Topic Number of Classes

1. Limit and continuity 5

2. Type of discontinuities 4

3. Differentiability of functions 3

4. Successive differentiation 3

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| 5.Leibnitz's theorem |  |  |

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6.Partial differentiation 4

7. Euler's theorem on homogeneous function 3

8. Tangents and normal 5

9. Curvature 5

10. Asymptotes 5

11.Singular points 5

12.Tracing of curves,Parametric re- presentation of curves and tracing of paramertric curves, poler co ordinates & tracing of curves in poler co ordinates 5

13.Rolle's theorem,Mean value theorem 5

14.Taylor's theorem with lagrange's and Cauchy's form of remainder 5

15.Taylor's series,Maclaurin series of sin x,cos x,e^x,log(1+x),(1+x)^n 5

16.Maxima and Minima 4

17.Indeterminate forms 5

18. Tutorial 15

**TOTAL CREDIT- 90**