Date: 20/4/2019

**Summary Report on WIT & WIL**

**(Daily Report)**

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| **Name of the Faculty: Dr. G.Sireesha** | **Name of Subject: LAODE** |
| **Class/Section: I B.Tech. II Sem/ Mech-1** | |

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|  | Grid Reference No.: | 6.1.2 |
|  | Scenario Reference No.  (Mapping with Syllabus) | 1 |
|  | Topic covered in every class | Linear differential equations with variable coefficients (Euler-Cauchy, Legendre’s equations)- problems |
|  | Brief write-up (500 words) for every class: | 1. Ordinary differential equations are used to model biological processes on various levels ranging from DNA molecules or biosynthesis phospholipids on the cellular level.  2. Second-order linear differential equations have a variety of applications in science and engineering. The vibration of springs, Damped Vibrations & electric circuits.  3. The second order Euler–Cauchy equation appears in a number of physics and engineering applications, such as when solving Laplace's equation in polar coordinates. |
|  | Relevant additional illustration if any: |  |
|  | Video Links/ Web Links if any: | http://www.efunda.com/math/ode/linearode\_varcoeff.cfm |
|  | Signature of Repository Administrator: |  |