**ANURAG GROUP OF INSTITUTIONS**

(Formerly CVSR COLLEGE OF ENGINEERING)

Venkatapur (V), Ghatkesar (M), R. R. Dist.

**(Autonomous)**

**DEPARTMENT OF MECHANICAL ENGINEERING**

Name of the Course: **MECHANICS OF SOLIDS LAB**

Name of the course coordinator: **Dr. P. RAVIKANTH RAJU**

**Course Outcomes:**

After completion of this course the students will be able to:

1. Understand the difference types of forces by performing experiments on various metal samples.
2. Conduct experiments on stiffness of springs.
3. Understand the various types of Beams.
4. Understand the various Mechanical Properties using different tests.
5. Understand the bending strength of the beams and compression strengths of wooden and cement cube specimen.

**Articulation matrix of CO’s with PO’s and PSO’s**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Program Outcome’s** | | | | | | | | | | | | **PSO’s** | | |
| **PO1** | **PO2** | **PO3** | **PO4** | **PO5** | **PO6** | **PO7** | **PO8** | **PO9** | **PO 10** | **PO 11** | **PO12** | **PSO1** | **PSO2** | **PSO3** |
| **CO1** | **3** | **3** | **3** | **3** | **2** | **2** | **-** | **2** | **1** | **-** | **1** | **1** | **2** | **2** | **3** |
| **CO2** | **3** | **3** | **3** | **2** | **-** | **-** | **-** | **2** | **1** | **-** | **1** | **1** | **3** | **2** | **1** |
| **CO3** | **3** | **3** | **3** | **2** | **-** | **2** | **-** | **2** | **-** | **-** | **1** | **1** | **2** | **2** | **3** |
| **CO4** | **3** | **3** | **3** | **-** | **1** | **2** | **-** | **2** | **-** | **2** | **2** | **-** | **3** | **2** | **2** |
| **CO5** | **3** | **3** | **3** | **3** | **1** | **2** | **-** | **1** | **-** | **-** | **1** | **1** | **2** | **2** | **1** |
| **AVG** | **3** | **3** | **3** | **3** | **1** | **2** | **-** | **2** | **1** | **2** | **1** | **1** | **2** | **2** | **2** |

***Note*: 1 - Slight**

**2 - Moderate**

**3 - Substantial**

**Signature of the Course Coordinator**