**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: **PROBABILITY AND STATISTICS**

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 basics of probability, events and random experiments.
2. Analyze the random variables which is always a numerical quantity.
3. Understand the multiple random variables and relate through examples to real problems
4. Understand of Power density spectrum and its properties and understanding the types of ANOVA
5. Understand the combined sample spaces and computer generation of specified random variable using MATLAB software.

**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** | **-** | **-** | **-** | **1** | **2** | **-** | **-** | **-** | **1** | **1** | **1** | **1** | **3** | **2** |
| **CO2** | **2** | **1** | **-** | **2** | **-** | **1** | **1** | **-** | **-** | **-** | **-** | **-** | **1** | **1** | **1** |
| **CO3** | **1** | **2** | **1** | **-** | **-** | **2** | **1** | **-** | **-** | **-** | **-** | **1** | **2** | **2** | **1** |
| **CO4** | **2** | **2** | **1** | **-** | **1** | **2** | **1** | **-** | **-** | **1** | **1** | **2** | **2** | **3** | **1** |
| **CO5** | **2** | **-** | **-** | **-** | **1** | **1** | **-** | **-** | **-** | **-** | **1** | **1** | **2** | **1** | **-** |
| **AVG** | **2** | **2** | **1** | **2** | **1** | **2** | **1** | **-** | **-** | **1** | **1** | **1** | **2** | **2** | **1** |

***Note*: 1 - Slight**

**2 - Moderate**

**3 - Substantial**

**Signature of the Course Coordinator**