**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**: ELECTRICAL AND ELECTRONICS ENGINEERING**

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 operating principles of major electronic devices, circuit models and connection to the physical operation of the devices.
2. Apply this knowledge to the analysis and design of basic circuits as well as to organize, analyzes, and interprets data.
3. Identify, formulates, and solves hardware engineering problems and outcomes in the part of electronic devices and circuits.
4. Understand the categories in the field of solid state materials and energy bands and analyzing the characteristics of semiconductor components like diode.
5. Know the complete internal structure of PN junction and types of bias.

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

***Note*: 1 - Slight**

**2 - Moderate**

**3 - Substantial**

**Signature of the Course Coordinator**