PRASAD V. POTLURI SIDDHARTHA INSTITUTE OF TECHNOLOGY KANURU, VIJAYAWADA

Department of Computer Science and Engineering

II B.Tech – I Semester

**20SO8355 Introduction to Linux Operating System**

|  |  |  |  |
| --- | --- | --- | --- |
| **CO** | **Statement** | **Skill** | **Blooms** |
| **CO1** | Apply suitable commands to perform various tasks on Linux Operating Systems | Apply | L3 |
| **CO2** | Implement tasks as an individual on Linux Operating System | Modern Tools,  Individual Performance | L3 |
| **CO3** | Develop an effective report based on various tasks implemented. | Written Communication | L3 |
| **CO4** | Apply technical knowledge for a given problem and express with an effective oral communication | Communication | L3 |
| **CO5** | Analyze outputs using given constraints | Analyze | L4 |

|  |  |  |
| --- | --- | --- |
| **Syllabus** | |  |
| **Expt. No** | **Contents** | **Mapped CO** |
| **1.** | Apply suitable commands to perform various tasks on Linux Operating Systems | **CO1,CO2,CO3,CO4,CO5** |
| **2.** | Implement tasks as an individual on Linux Operating System | **CO1,CO2,CO3,CO4,CO5** |
| **3.** | Develop an effective report based on various tasks implemented. | **CO1,CO2,CO3,CO4,CO5** |
| **4.** | Apply technical knowledge for a given problem and express with an effective oral communication | **CO1,CO2,CO3,CO4,CO5** |
| **5.** | Analyze outputs using given constraints | **CO1,CO2,CO3,CO4,CO5** |

**CO-PO Mapping**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Contribution of Course Outcomes towards achievement of Program Outcomes** | | | | | | | | | | | | | | |
|  | **PO1** | **PO2** | **PO3** | **PO4** | **PO5** | **PO6** | **PO7** | **PO8** | **PO9** | **PO10** | **PO11** | **PO12** | **PSO1** | **PSO2** |
| **CO1** | **√** |  |  |  |  |  |  |  |  |  |  | **√** |  |  |
| **CO2** |  |  |  |  |  |  |  |  | **√** |  |  |  |  |  |
| **CO3** |  |  |  |  |  |  |  |  |  | **√** |  |  |  |  |
| **CO4** |  |  |  |  |  |  |  |  |  | **√** |  |  | **√** |  |
| **CO5** |  | **√** |  |  |  |  |  |  |  |  |  |  |  |  |

**Strength of Correlation**

Distribution of marks weightage to PO’s through CO’s.

* The strength of correlation levels is based on percentage of marks distribution towards PO.

|  |  |  |
| --- | --- | --- |
| **SEE** | **Test** | **Marks** |
| Report | 15 |
| Sem End Examination | 35 |
| **Total** | | **50** |

**Strength of Correlation**

|  |  |
| --- | --- |
| **% of marks towards PO through CO’s** | **Level (Weight)** |
| >=20% of total marks | 3 |
| >=10% and <20% of total marks | 2 |
| < 10% of total marks | 1 |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **CO** | **Skill** | **Blooms** | **Report** | **Assessing Tools can be used to measure CO (SEE)**  **Marks** | **Total**  **(Report+SEE)** | **Percentage**  **(%)** | **Strength of Correlation** | **PO** |
|  |  |  |  |  |  |  |  |  |
| **CO1** | Apply | L3 | - | 5  5 | 5  5 | 10%  10% | 2  2 | PO1  PO12 |
| **CO2** | Individual Performance | L3 | - | 10 | 10 | 20% | 2 | PO9 |
| **CO3** | Record Preparation | L3 | 15 | - | 15 | 30% | 3 | PO10 |
| **CO4** | Communication | L3 | - | 10 | 5  5 | 10%  10% | 2  2 | PO10  PSO1 |
| **CO5** | Analyze | L4 | - | 5 | 5 | 10% | 2 | PO2 |

**Course Articulation Matrix:**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Contribution of Course Outcomes towards achievement of Program Outcomes & Strength of correlations (3:Substantial, 2: Moderate, 1:Slight)** | | | | | | | | | | | | | | |
|  | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO1 | PSO2 |
| **CO1** | **2** |  |  |  |  |  |  |  |  |  |  | **2** |  |  |
| **CO2** |  |  |  |  |  |  |  |  | **2** |  |  |  |  |  |
| **CO3** |  |  |  |  |  |  |  |  |  | **3** |  |  |  |  |
| **CO4** |  |  |  |  |  |  |  |  |  | **2** |  |  | **2** |  |
| **CO5** |  | **2** |  |  |  |  |  |  |  |  |  |  |  |  |
| **Average** | **2** | **2** |  |  |  |  |  |  | **2** | **2.5** |  | **2** | **2** |  |