||Jai Sri Gurudev||

**ACU**

**BGS INSTITUTE OF TECHNOLOGY, B G NAGAR**

**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**

**COURSE OUTCOMES AND CO-PO MAPPING WITH JUSTIFICATIONS**

 **Staff Name: M G YOGAPRAKASH Sem: III**

 **COURSE CODE/18CS35/SUB NAME/UNIX and shell programming**

| **CO1** | **Describe the architecture, features and fundamental commands of UNIX.** |
| --- | --- |
| **CO2** | **Identify the file, file types, file attributes and directory commands.** |
| **CO3** | **Discuss vi editor, wild cards, three standard files and regular expressions.** |
| **CO4** | **Execute commands like head, tail, cut, paste and develop a shell program.** |
| **CO5** | **Execute process creation commands and design a perl program.** |

| CO/PO'S | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | P07 | PO8 | PO9 | P010 | PO11 | PO12 | PSO1 | PSO2 |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| CO1 | 3 | 3 |  |  |  |  |  |  |  | 1 |  |  | 3 |  |
| CO2 | 3 | 3 |  |  |  |  |  |  |  | 1 |  |  | 3 |  |
| CO3 | 3 | 3 |  |  |  |  |  |  |  | 1 |  |  | 3 |  |
| C04 | 3 | 3 |  |  |  |  |  |  |  | 1 |  |  | 3 |  |
| CO5 | 3 | 3 |  |  |  |  |  |  |  | 1 |  |  | 3 |  |
| AVG | 3 | 3 |  |  |  |  |  |  |  | 1 |  |  | 3 |  |

| **C0-PO MAP** | **MAPPED VALUE** | **REASON** |
| --- | --- | --- |
| **CO1-PO1** | **3** | They apply the knowledge of unix commands and shell commands to solve OS problems.To interpret and analyse shell basics and environment to find a solution.Explain and convey the solution obtained.Use shell concepts and commands to solve problems. |
| **CO1-PO2** | **3** |
| **CO1-PO10** | **1** |
| **CO1-PSO1** | **3** |
| **CO2-PO1** | **3** | They apply the knowledge of file type to create and use it.They analyse the directory commands and file attributes to solve the permission problems.They demonstrate the concepts of files and directory.To apply file attributes and directory commands to solve problems of the operating system.  |
| **CO2-PO2** | **3** |
| **CO2-PO10** | **1** |
| **CO2-PSO1** | **3** |
| **CO3-PO1** | **3** | The knowledge of vi editor and regular expression is used to solve the problems.They analyse the different modes of vi editor and standard files to solve the vi editor and file problems.They effectively demonstrate the solution. To apply the knowledge of vi editor and regular expression to find solutions to the problems related to editor and files. |
| **CO3-PO2** | **3** |
| **CO3-PO10** | **1** |
| **CO3-PSO1** | **3** |
| **CO4-PO1** | **3** | They apply the understanding of shell programming to find solutions to the given problems.To interpret and analyse commands like cut and paste in reaching a solution to the problem.They convey the solution after applying the concept of programmingApply the concept of shell programming to solve the given problem. |
| **CO4-PO2** | **3** |
| **CO4-PO10** | **1** |
| **CO4-PSO1** | **3** |
|  **CO5-PO1** | **3** | They apply the knowledge of process creation and perl programming to solve problems.To identify and analyze the problem to give a solution to a problem.The solution obtained is presented by them effectively.Apply the perl programming constructs to develop a program. |
| **CO5-PO2** | **3** |
| **CO5-PO10** | **1** |
| **CO5-PSO1** | **3** |