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| Year &Sem: B.Tech I –Isem |
| Course name: PROGRAMMING FOR PROBLEM SOLVING |
| Course Code: CS103ES  Batch :2018-2022 |
| Regulation: R18 |

**COURSE OUTCOMES:**

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| --- | --- |
| **After completing this course the student must demonstrate the knowledge and Ability to** | |
| **CO 1** | Construct algorithms, flow charts for solving problems .Understand the basic semantics of c Programming. |
| **CO 2** | Apply the concept of arrays, strings , pointers, structures, unions to develop C programs |
| **CO 3** | Develop applications using file Management to read write data from files |
| **CO 4** | Develop a problem into functions for modular reusable code |
| **CO 5** | Apply searching and sorting techniques |

**CO –PO MAPPING:**

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **PO1** | **PO2** | **PO3** | **PO4** | **PO5** | **PO6** | **PO7** | **PO8** | **PO9** | **PO10** | **PO11** | **PO12** |
| **CO1** | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| **CO2** | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| **CO3** | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| **CO4** | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| **CO5** | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| **AVG** | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |

**CO - PSO MAPPING:**

|  |  |  |
| --- | --- | --- |
|  | PSO1 | PSO2 |
| CO1 | 3 | 3 |
| CO2 | 3 | 3 |
| CO3 | 3 | 3 |
| CO4 | 3 | 3 |
| CO5 | 3 | 3 |
| **AVG** | **3** | **3** |

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| Year &Sem: B.Tech I –Isem |
| Course name: PROGRAMMING FOR PROBLEM SOLVING LAB |
| Course Code: CS106ES  Batch :2018-2022 |
| Regulation: R16 |

**COURSE OUTCOMES:**

|  |  |
| --- | --- |
| **After completing this course the student must demonstrate the knowledge and Ability to** | |
| **CO 1** | Design the programs to solve scientific and mathematical, Control structured problems |
| **CO 2** | Develop programs using arrays, pointers |
| **CO 3** | Design the programs using file handling functions |
| **CO 4** | Develop the programs using functions |
| **CO 5** | Design the programs for different searching and sorting techniques. |

**CO –PO MAPPING:**

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **PO1** | **PO2** | **PO3** | **PO4** | **PO5** | **PO6** | **PO7** | **PO8** | **PO9** | **PO10** | **PO11** | **PO12** |
| **CO1** | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| **CO2** | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| **CO3** | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| **CO4** | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| **CO5** | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| **AVG** | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |

**CO - PSO MAPPING:**

|  |  |  |
| --- | --- | --- |
|  | PSO1 | PSO2 |
| CO1 | 3 | 3 |
| CO2 | 3 | 3 |
| CO3 | 3 | 3 |
| CO4 | 3 | 3 |
| CO5 | 3 | 3 |
| **AVG** | **3** | **3** |