Year& Sem: B.Tech I-II Sem

Course Name: PROGRAMMING FOR PROBLEM SOLVING

Course Code: CS203ES

Batch: 2018-2022

Regulation: R18

**COURSE OUTCOMES:**

|  |  |
| --- | --- |
| **After completing this course the student must demonstrate the knowledge and Ability to** | |
| **C113.1** | Construct algorithms, flow charts for solving problems, Understand the basic semantics of c Programming. |
| **C113.2** | Apply the concept of arrays, strings, pointers, structures, unions to develop C programs |
| **C113.3** | Develop applications using file Management to read write data from files |
| **C113.4** | Develop a problem into functions for modular reusable code |
| **C113.5** | 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**  **PSO1** | **PSO2** |
| CO1 | 3 | 3 |
| CO2 | 3 | 3 |
| CO3 | 3 | 3 |
| CO4 | 3 | 3 |
| CO5 | 3 | 3 |
| **AVG** | 3 | 3 |

Year& Sem: B.Tech I-II Sem

Course Name: PROGRAMMING FOR PROBLEM SOLVING LAB

Course Code: CS206ES

Batch: 2018-2022

Regulation: R18

**COURSE OUTCOMES:**

|  |  |
| --- | --- |
| **After completing this course the student must demonstrate the knowledge and Ability to** | |
| **C116.1** | Design the programs to solve scientific and mathematical, Control structured problems |
| **C116.2** | Develop programs using arrays, pointers |
| **C116.3** | Design the programs using file handling functions |
| **C116.4** | Develop the programs using functions |
| **C116.5** | 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**  **PSO1** | **PSO2** |
| CO1 | 3 | 3 |
| CO2 | 3 | 3 |
| CO3 | 3 | 3 |
| CO4 | 3 | 3 |
| CO5 | 3 | 3 |
| **AVG** | 3 | 3 |