**DEPARTMENT OF** **COMPUTER SCIENCE AND ENGINEERING**

**COs, PEOs, PSOs and COs-POs/PSOs mapping matrix**

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| **SEMESTER 8** | | |
| Sub Code: **10IS81** | Sub Name: **Software Architectures** | |
| Name of the Faculty: Dr. Sumit N and Mr. Sushant Mangasuli | | IA Marks: 25 |
| Total Numbers of Lecture  Hours: 52 | Number of Lecture Hours/Week: 4hrs | Exam Marks: 100 |
| Exam Hours: 3hrs |
| **COURSE OUTCOMES:** | | |
| After studying this course, students will be able to:  **10IS81.1** Design architectures based on natural language requirements.  **10IS81.2** Recognize and describe the various architecture styles and design patterns  **10IS81.3** Choose the right architectural style for candidate system among various architectural techniques/style.  **10IS81.4** Design and motivate software architecture for large scale software intensive application. | | |
| **PROGRAMME EDUCATION OBJECTIVES (PEOs) :** | | |
| **PEO1:** To provide students with fundamental strength in core disciplines of   computer engineering to solve the problems of computing world.  **PEO2:** To ensure that graduates conquer the difficulties of emerging adaptive technological changes.  **PEO3:**To prepare students for successful career in the industry of international standard. | | |
| **PROGRAMME SPECIFIC OUTCOMEs (PSOs) :** | | |
| A graduate of the Computer Science and Engineering Program will exhibit:  **PSO1: Professional Skills:** The ability to understand & implement the computer programs in the areas of Computer Architecture, System Software, Database Management Systems, Web Design, Multimedia and Computer Networking.  **PSO2: Problem-Solving Skills:** The ability to solve real-world problems by suitable mathematical model with strong technological concepts in rapidly growing arena of computer technology.  **PSO3: Successful Career and Entrepreneurship:** Knowledge in diverse areas of Software Engineering and Management & Entrepreneurship for IT Industry, conducive in cultivating skills for successful career development. | | |
| **CO-PO/PSO Mapping Matrix:** | | |
| |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | **CO** | **PO1** | **PO2** | **PO3** | **PO4** | **PO5** | **PO6** | **PO7** | **PO8** | **PO9** | **PO**  **10** | **PO**  **11** | **PO**  **12** | **PSO1** | **PSO2** | **PSO3** | | **10IS81.1** |  |  |  |  |  |  |  |  |  | **2** |  |  | **1** | **3** | **1** | | **10IS81.2** |  |  |  |  |  |  |  |  |  | **2** |  | **1** |  | **2** |  | | **10IS81.3** |  |  |  |  | **2** |  |  |  |  | **2** |  | **3** |  | **3** |  | | **10IS81.4** |  |  |  | **2** | **2** |  |  |  | **2** | **2** |  | **3** |  | **3** | **1** | | **SUM** |  |  |  | **2** | **4** |  |  |  | **2** | **8** |  | **7** | **1** | **11** | **2** | | **AVG** |  |  |  | **2** | **2** |  |  |  | **2** | **2** |  | **2.3** | **1** | **2.7** | **1** | | | |

**Signature of the faculty HOD**