**JSPM NTC**

**MCA**

**Narhe, Pune (2022)**

**Department: Master of Computer Applicaitons**

**Year: MCA-I SEM-II**

**Course Title** : [**IT42] Advance DBMS Course Outcomes (CO) :**

|  |  |
| --- | --- |
| **Course outcomes (CO)** | **Statement** |
| CO1 | Describe the core concepts of DBMS and various databases used in real applications(Understand) |
| CO2 | *Design relational database using E-R model and normalization (Apply)* |
| CO3 | *Demonstrate XML database and non procedural structural query languages for data access (Apply)* |
| CO4 | Explain concepts of Parallel, Distributed and Object-Oriented Databases and their applications (Understand) |
| *CO5* | *Apply transaction management, recovery management, backup and security – privacy*  *concepts for database applications (Apply)* |

**Establish the correlation between the Courses and the Program Outcomes (POs) and Program Specific Outcomes (PSOs)**

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **C0** | **PO1** | **PO2** | **PO3** | **PO4** | **PO5** | **PO6** | **PO7** | **PO8** | **PO9** | **PO10** | **PO11** | **PO12** |
| **CO1** | 2 | 1 |  |  | 2 |  |  |  |  | 1 |  | 2 |
| **CO2** | 2 | 2 | 1 | 2 | 1 |  |  | 1 |  | 2 |  |  |
| **CO3** | 1 |  | 2 | 1 | 2 |  | 1 |  |  |  |  | 1 |
| **CO4** | 1 | 1 | 2 | 1 | 2 |  |  |  |  |  |  | 1 |
| CO5 |  |  | 1 |  |  |  |  |  |  | 2 |  | 1 |

|  |  |  |  |
| --- | --- | --- | --- |
| **C0** | **PSO1** | **PSO2** | **PSO3** |
| **CO1** | 1 | 1 | - |
| **CO2** | 2 |  | 1 |
| **CO3** |  | 2 | - |
| **CO4** | - | 1 | - |
| **CO5** | 1 | 2 |  |

Note:

Enter correlation levels 1, 2 or 3 as defined below:

1: Slight (Low) 2: Moderate (Medium) 3: Substantial (High), *It there is no correlation, put “-”*

Justification for mapping CO to corresponding PO

|  |  |  |
| --- | --- | --- |
| **Course Outcome (CO)** | **Mapped PO** | **Justification** |
| **CO1** | PO1,PO3,PO5  PO12 | To know the awareness of the basic issues in File system and its overcome by DBMS. |
| **CO2** | PO1,PO2,PO3,PO4,  PO5, PO12 | Understand the mechanism of data-base models and ER Models |
| **CO3** | PO1,PO2,PO3,  PO4,PO5,PO12 | Understand the commercial relational database system (Oracle) by writing SQL using the system. |
| **CO4** | PO1,PO2,PO3,PO4  PO5,PO12 | Understand the principles of transaction and concurrency contorl and seriziability |

Justification for mapping CO to corresponding PSO

|  |  |  |
| --- | --- | --- |
| **Course Outcome (CO)** | **Mapped PSO** | **Justification** |
| **CO1** | PSO1,PSO2 | Knowledge to concepts of Data base models, and application. |
| **CO2** | PSO1,PSO2 | Understand the Rela |
| **CO3** | PSO1 | Able to know concepts of transaction and concurrency control and deadlock . |
| **CO4** | PSO2 | Able to know concepts of parallel and distributed databases. |

Date:

Signature: Course coordinator Program coordinator HOD