**Bachelor of Computer Engineering**

|  |  |  |
| --- | --- | --- |
| **Program Outcomes(POs)** | | |
| *Learners are expected to know and able to…* | | |
| 1 | Engineering Knowledge | To apply knowledge of mathematics, science, engineering fundamentals, problem solving skills, algorithmic analysis and mathematical modeling to the solution of complex engineering problems. |
| 2 | Problem Analysis | To analyze the problem by finding its domain and applying domain specific skills. |
| 3 | Design/ Development of Solutions | To understand the design issues of the product/software and develop effective solutions with appropriate consideration for public health and safety, cultural, societal, and environmental issues. |
| 4 | Conduct | To find solutions of complex problems by conducting investigations applying suitable techniques. |
| 5 | Modern Tool Usage | To adapt the usage of modern tools and recent software. |
| 6 | The Engineer and Society | To contribute towards the society by understanding the impact of Engineering on global aspect. |
| 7 | Environment & Sustainability | To understand environment issues and design a sustainable system. |
| 8 | Ethics | To understand and follow professional ethics. |
| 9 | Individual and Team Work | To function effectively as an individual and as member or leader in diverse teams and interdisciplinary settings. |
| 10 | Communication | To demonstrate effective communication at various levels. |
| 11 | Project Management and Finance | To apply the knowledge of Computer Engineering for development of projects, and its finance and management. |
| 12 | Life - long Learning | To keep in touch with current technologies and inculcate the practice of lifelong learning. |

|  |  |
| --- | --- |
| **Program Specific Outcomes(PSOs)** | |
| 1 | **Professional Skills**-The ability to understand, analyze and develop computer programs in the areas related to algorithms, system software, multimedia, web design, big data analytics, and networking for efficient design of computer-based systems of varying. |
| 2 | **Problem-Solving Skills**- The ability to apply standard practices and strategies in software project development using open-ended programming environments to deliver a quality product for business success. |
| 3 | **Successful Career and Entrepreneurship**- The ability to employ modern computer languages, environments, and platforms in creating innovative career paths to be an entrepreneur and a zest for higher studies. |

**Database management systems Laboratory (310246)**

**Course Objectives:**

1. To develop Database programming skills.
2. To develop basic Database administration skills.
3. To develop skills to handle NoSQL database.
4. To learn, understand and execute process of software application development.

**Course Outcomes:**

On completion of the course, learners will be able to

1. Design E-R Model for given requirements and convert the same into database tables.
2. Design schema in appropriate normal form considering actual requirements.
3. Implement SQL queries for given requirements, using different SQL concepts.
4. Implement PL/SQL Code block for given requirements.
5. Implement NoSQL queries using MongoDB.
6. Design and develop application considering actual requirements and using database concepts.