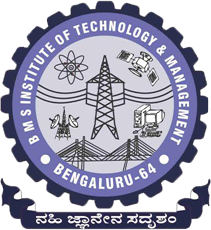
BMS INSTITUTE OF TECHNOLOGY & MANAGEMENT

YELAHANKA, BENGALURU - 560064



**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

**PROJECT BASED LEARNING**

Odd Semester - 2021-22

Synopsis of

***“*PBL Title”**

Subject name - Subject code

V Semester

Section

*Submitted By*

**Student Name** USN: 1BY

**Student Name** USN: 1BY

**Student Name** USN: 1BY

**Student Name** USN: 1BY

Under the Guidance of

|  |  |  |
| --- | --- | --- |
| faculty name  Designation |  | faculty name  Designation |

2021-2022

**INSTITUTE VISION**

To emerge as one of the finest technical institutions of higher learning, to develop engineering professionals who are technically competent, ethical and environment friendly for betterment of the society.

**INSTITUTE MISSION**

Accomplish stimulating learning environment through high quality academic instruction, innovation and industry-institute interface.

**DEPARTMENT VISION**

To develop technical professionals acquainted with recent trends and technologies of computer science to serve as valuable resource for the nation/society.

**DEPARTMENT MISSION**

Facilitating and exposing the students to various learning opportunities through dedicated academic teaching, guidance and monitoring.

**PROGRAM EDUCATIONAL OBJECTIVES**

1. Lead a successful career by designing, analyzing and solving various problems in the field of Computer Science & Engineering.
2. Pursue higher studies for enduring edification.
3. Exhibit professional and team building attitude along with effective communication.
4. Identify and provide solutions for sustainable environmental development.

**Program Specific Outcomes (PSOs):**

1. Analyze the problem and identify computing requirements appropriate to its solution.
2. Apply design and development principles in the construction of software systems of varying complexity.

|  |  |
| --- | --- |
| **Subject Name– Code - Course Outcomes (COs) w.r.t this PBL** | |
| CO # | CO DEFINED |
|  | ASK YOUR FACULTY ABOUT THIS |

**Project to Program Outcomes (PO) Mapping**

**Project Name:** title (ASK YOUR FACULTY ABOUT THIS)

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **COURSE** | **PO1** | **PO2** | **PO3** | **PO4** | **PO5** | **PO6** | **PO7** | **PO8** | **PO9** | **PO10** | **PO11** | **PO12** |
| Subject Name |  |  |  |  |  |  |  |  |  |  |  |  |
| Subject Name |  |  |  |  |  |  |  |  |  |  |  |  |

|  |  |
| --- | --- |
| **Program outcomes (POs):** | |
| **PO1** | **Engineering knowledge:** Apply the knowledge of Mathematics, Science, Engineering fundamentals and an engineering specialization to the solution of complex engineering problems |
| **PO2** | **Problem analysis:** Identify, formulate, review research literature, and analyse complex Engineering problems reaching substantiated conclusions using first principles of mathematics, Natural sciences and engineering sciences |
| **PO3** | **Design/development of solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations. |
| **PO4** | **Conduct investigations of complex problems**: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the Information to provide valid conclusions |
| **PO5** | **Modern tool usage**: Create, select, and apply appropriate techniques, resources, and modern Engineering and IT tools including prediction and modelling to complex engineering activities with an understanding of the limitations. |
| **PO6** | **The engineer and society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice. |
| **PO7** | **Environment and sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for Sustainable development |
| **PO8** | **Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice. |
| **PO9** | **Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings |
| **PO10** | **Communication:** Communicate effectively on complex engineering activities with the engineering Community and with society at large, such as, being able to comprehend and write effective reports And design documentation, make effective presentations, and give and receive clear instructions. |
| **PO11** | **Project management and finance:** Demonstrate knowledge and understanding of the Engineering and management principles and apply these to one’s own work, as a member and Leader in a team, to manage projects and in multidisciplinary environments. |
| **PO12** | **Life-long learning:** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change. |

**Project to Program Specific Outcomes (PSO) Mapping**

|  |  |
| --- | --- |
| **Program Specific Outcomes (PSOs):** | |
| **PSO1** | Analyze the problem and identify computing requirements appropriate to its solution. |
| **PSO2** | Apply design and development principles in the construction of software systems of varying complexity. |

**Project Name:** title

|  |  |  |
| --- | --- | --- |
| **COURSE** | **PSO1** | **PSO2** |
| Subject Name |  |  |
| Subject Name |  |  |

Use the Tick symbol (√) for mapping

**Abstract:** (First paragraph not more than 300 words)**– what?**

(The Second paragraph over here must not be more than 300 words)**– It must illustrate about the concepts of** Computer Networks and Python Application Development to be used in this PBL.

**Introduction:-Detailed What?**

**Motivation:-why?**

**Existing System:-what exists?**

**Limitations of Existing System: what’s the problem with existing system?**

**Proposed System:-how are you going to address the gap?**

**System Requirement Specifications (Functional & Non-Functional): -parts of solution?**

**System Architecture / Design: 1. Context Model**

**2. Interaction Model-Use case diagram or Sequence diagram,**

**3. Structural Model- class diagram**

**4. Behavioral - Data Flow Model /in case of only**

**software applications, add State machine model in case of**

**Hardware integrated implementation**

**/\*Choose appropriate Model based on your problem Domain\*/**

**Implementation: The work carried out in terms of Modules, Sub Modules - Screenshots**

**Validation / Results : Analysis of Test cases and their observed output**

**Future Scope/ Enhancement**

**References: – what you referred?**

* The students are expected to implement an algorithm/Protocol/Concept of Computer Networks using Python Constructs in the PBL.
* Synopsis draft must discuss about the CN and PAP concepts and techniques to be utilized in this PBL.

*Note: The grey colored text is the clue of expected information in the respective section*

**Common guidelines for preparing Synopsis**

* Each page should have header and footer
  + Header – Project Name (LHS) and Page No (RHS)
  + Footer - BMSIT&M, Department of CSE (LHS) and year of submission(RHS)
* Use Times New Roman Font type
* All the main headings should be 16’’ Bold
* All the sub headings should be 14’’ Bold
* All running text should be 12’’ Justified and 1.5 line spacing
* Do not underline
* All the abbreviations have to be expanded when they are used for the first time and can be abbreviated in further use