**NARAYANA ENGINEERING COLLEGE::NELLORE || GUDUR**

***Department of CSE***

**Lecture Plan**

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| **Course Details** |
| **Class: B. Tech Year-Semester:** II-II **Year:** 2024-25  **Course Title:** SOFTWARE ENGINEERING **Course Code: 23A05403 Credits:** 3  **Program/Dept.:** Computer Science and Engineering **Section:** CSE-A B & C **Batch:** 2023-27  **Regulation:** NECR-23 **Faculty:** Dr. Penchalaiah / Dr . V Sucharitha |

**Short Answer Question Bank**

**Module -5**

1. **What is CASE?**

CASE stands for Computer-Aided Software Engineering. It is a systematic approach to software development that utilizes automated tools to support various phases of the software development life cycle (SDLC).

1. **Mention two key benefits of using CASE tools.**
   * **Improved Productivity:** CASE tools automate repetitive tasks, reducing development time.
   * **Enhanced Quality:** CASE tools enforce standards and guidelines, leading to higher quality software.
2. **What is a CASE environment?**

A CASE environment is a collection of integrated CASE tools that provide a comprehensive support framework for software development activities, including analysis, design, coding, testing, and maintenance.

1. **How do CASE tools support software maintenance?**

CASE tools can help in maintenance by providing tools for reverse engineering, impact analysis, and change management. They can also generate documentation and track changes to the software.

1. **What is the concept of a second-generation CASE tool?**

Second-generation CASE tools aim to address the limitations of first-generation tools by providing more integrated and intelligent capabilities. They often incorporate AI and machine learning techniques to automate tasks and improve decision-making.

1. **What are the primary activities involved in software maintenance?**

The primary activities include corrective maintenance, adaptive maintenance, perfective maintenance, and preventive maintenance.

1. **What is software reverse engineering?**

Software reverse engineering involves analyzing existing software to understand its design and implementation details.

1. **What is the primary goal of software maintenance cost estimation?**

The primary goal is to accurately predict the resources and time required for maintenance activities, enabling effective planning and budgeting.

1. **Why is software reuse often overlooked or underutilized?**

Several factors contribute to this, including organizational culture, lack of standardized components, and the perception that reuse is more effort than building new software.

1. **What are the key issues in implementing a software reuse program?**

Some key issues include identifying reusable components, managing and storing components, and ensuring component compatibility and quality.