

School of Computer and Information Sciences

Software Engineering Lab

M.Tech (CS, AI) 2025-26 Jan-May 2026

Announcement Date: 20-1-2026

Submission Date: On or before 22-1-2026 (23:59 Hrs) on GitHub

Task-2 : **Problem Statement: Student Result Processing System**

Modify the **Student Result Processing System** developed in last week and generate another version of the same on git incorporating the following:

1. Modularization (CO-3)

- Divide the Student Result Processing System into Modules satisfying the Module characteristics (Module has a name, Can be separately compiled and stored in a library, module can call other modules, Coupling should be low and cohesion should be high)
- Make some user defined header files

2. Quality Characteristics: Following quality characteristics need to be incorporated in the application (CO-6)

- Usability(Ability of the software which is easy to use)
- Efficiency (Ability of software to make optimal use of resources including memory utilization, processing time etc)
- Reusability (To reuse modules across applications)
- Interoperability (Ability to exchange data or services with other modules). Try invoking functionalities of the application from other platforms

3. Documentation (CO-3)

- Write Module specification (Module name, Input, Pre-condition, logic and output) for each module
- You can express logic using algorithm, flowchart or pseudo codes
- Use diagram.io to draw figures if any

4. Test Plan (CO-2)

- Write Test plan for each of the functions you wrote in the application
- Test plan includes Test id, Functionality, Input, expected output, Actual output and Test report

Learning Outcomes

- Submit your program on the git
 - Plagiarised (Code, AI, Gen AI) code will not be evaluated
 - Share the git links for evaluation
 - Submit the task latest by 22nd Jan 23.59 Hrs
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