Course Title: Minor Project II **Credit: 3**

Course No: CSIT.414

Nature of the Course: Project

Year: Fourth, Semester: Seventh

Level: B. Sc. CSIT

1. Course Introduction

This course will allow students who are taking the ***Advanced Java Programming*** course to expand their programming knowledge and work on significant projects of their choice. Lessons on software development processes, project design & management, and other topics will assist in completing the projects as well as advance their programming skills. There is no set syllabus. Students identify their chosen project area and are allocated a supervisor who is a member of the academic staff, and is responsible for providing support and guidance. Students are responsible for organizing themselves and their work, with advice from their supervisor with whom they should meet on a regular basis, as agreed with the supervisor.

2. Objectives

Upon completion of this course students will be:

- → Experienced and empowered in undertaking significant project work in a self disciplined, organized, and professional manner from conception to documentation.
- → Skilled in analyzing, designing and developing of meaningful and efficient real world application

3. Method of Instruction:

Individual working with support from the project supervisor

4. Tentative Project Report Format

The final report documents the results of the project and should be submitted within 1 week after finishing final examination. Students should use Times New Roman Font and Line spacing 1.5 while formatting their project report. Tentative project report format should be as per following outline:

Front Part

- Cover Page
- Students Declaration
- Supervisors Recommendation
- Letter of Approval
- Acknowledgement
- Abstract
- Table of Contents
- List of Figures

- List of Tables
- List of Abbreviations

Body Part

a. Introduction

First and foremost, you should write about the most interesting or important parts of your project. Devote most space and time to this. For example:

- What design choices did you have along the way, and why did you make the choices you made?
- What was the most difficult part of the project?
- Why was it difficult?
- How did you overcome the difficulties?
- Did you discover anything novel?
- What did you learn?

Set the scene and problem statement/specification. Provide the motivation for reading this report. Introduce the structure of report (what you will cover in which chapters).

b. Background

You should provide enough background to the reader for them to understand what the project is all about. For example:

- What the reader needs to know in order to understand the rest of the report. Examiners like to know that you have done some background research and that you know what else has been done in the field (where relevant). Try to include some references.
- Related work (if you know of any)
- How does this relate to other work in this area?

c. Analysis and Design

- Write how requirements are collected and also write about feasibility analysis of the project.
- If your project involves designing a system, give a good high-level overview of your design. In many projects, the initial design and the final design differ somewhat.
- If the differences are interesting, write about them, and why the changes were made. If your design was not implemented fully, describe which parts you did implement, and which you didn't. If the reason you didn't implement everything is interesting write about it.

d. Implementation and Testing

- Give description of tools used in implementation and code details (not a complete listing, but descriptions of key parts). Discuss the most important/interesting aspects.

- Test plan -- how the program/system was verified. Put the actual test results in the Appendix.

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e. Conclusion, Evaluation and Further Work
What have you achieved? Give a critical appraisal (evaluation) of your own work - how could the work be taken further (perhaps by another student next year)?

End Part

- References
- Bibliography
- Appendices

Note-Referencing and Citation should follow IEEE style.

5. Evaluation System

Internal Evaluation:-40%

- Proposal Defence:-10%
  Needs to be evaluated in following basis
  - Concept and Depth of Understanding
  - Proposal document
  - Presentation
  - Viva
- Mid Term Evaluation:-30%
  Students are expected to complete their database design and also start design and implementation of the project. Evaluation should be done following basis
  - Database Design
  - Progress and clarity of concepts
  - Presentation
  - Viva

External Evaluation: - 60% (Supervisor:-30%, External Examiner:-30%)

External evaluation should be done in the presence of external examiner and evaluation should be done following basis

- Project Report
- Practical relevance of the project
- Presentation
- Viva