Tribhuvan University

Bachelor of Science in Computer Science and Information Technology

B.Sc. CSIT Seventh Semester Detailed Syllabus

Course Title: Project work   **Full Marks: 100**

Course No.: CSC 404   **Pass Marks: 40**

Credit Hours: 3

Course Synopsis: This course should introduce students to the practical environment by making them build a real application. It develops students' skill regarding analysis, design and development of meaningful world application.

Phases

The students should exercise the following three phases for this course.

1. Proposal Submission
2. Mid-Term Defense
3. Final Project Submission and Defense

Baseline for project work

The student should focus on the following six different software development phases during the development of their project work.

1. Problem Identification
2. System Requirement Specification (SRS)
3. Feasibility Study
4. System Design
   a. Architectural Design
   b. Data structure Design
   c. Interface Design
   d. Procedure/Algorithm Design
5. Coding
6. Implementing, Testing and Debugging
7. Maintenance and Support

Evaluation and its Criteria

a. Term wise weight:
   − Proposal   -10%
   − Mid-term Defense   -30%
   − Final Defense   -60%
b. Evaluators:
   − Project Supervisor (Mentor of the project)   -60%
   − Internal (HOD/Program Coordinator or decided by Coordinator)   -20%
   − External Supervisor   -20%
c. Focus of the evaluation

- Present Skill
- Viva/Question Answer
- Value Added
- Scope of the Project
- Project Implementation
- Analysis, Design, documentation and overall project report

Proceeding

a. Proposal Submission:
   - Students(s) prepares proposal document in the prescribed format and submits to the Department of Computer Science in the College
   - The HOD/Program Coordinator or a panel coordinated by him/her evaluates the proposal with or without a presentation from the student(s)
   - If the proposal is accepted; a Supervisor is assigned by HOD/Coordinator depending upon the nature of the project
b. Mid Term Defense
   - The project team has to face a Mid Term Defense after first 40% to 60% of the project duration so that the supervisor and internal evaluator are assured of the progress of the project.
c. Final Defense
   Project team submits a complete project report in the prescribed format to the department
   - The department then Schedules the day for final defense
   - External Supervisor will be decided and will be called for the final defense
   - The project team needs to give presentation, followed by viva question answer session.

About the Report

- Number of Copies   : 3
- Size Limit   : 35-50 pages for main report except Annexes
- Look and Feel   : Golden Embracing with black background

Standard to be followed

A. *Page Layout*
   Your paper must use a page size corresponding to A4 which is 210mm (8.27") wide and 297mm (11.69") long.
   The margins must be set as follows:
   - Top = 19mm (0.75")
   - Bottom = 43mm (1.69")
   - Left = Right = 14.32mm (0.56")
B. *Page Style*
   - All paragraphs must be indented. All paragraphs must be justified, i.e. both left-justified and right-justified.
C. *Text Font of Entire Document*
   - The entire document should be in Times New Roman.

- The font size has to be 12 throughout
  D. *Section Headings*
     - No more than 3 levels of headings should be used.
     - Font size for the headings will be 16, 14, 12
  E. *Figures and Tables*
     - Position figures and tables at the tops and bottoms pages. Tables and figures may be full-page width or may be partial page.
     - Width with wrap on either side.
     - Figure captions should be centered below the figures. Table captions should be centered above.

Prescribed Format of the Proposal

1. Introduction
2. Problem Statement (Why have you chosen this topic?)
3. Objective
4. Scope and Limitation
5. Methodology
   a. Requirement Identification
      – Study of existing system
      – Requirement collection
   b. Feasibility Study
      – Technical
      – Operational
      – Economical
   c. Tools
      – Analysis and Design Tools
      – Implementation tools (Front End, Back End)
6. High level design of Proposed System (by system flow chart, use cases or other appropriate diagrams
7. Gantt Chart to show the projected time planning
8. Expected Outcome

Prescribed Format of the Project Report

The sequence in which the project report material should be arranged is as follows:
1. Cover Page and Title Page
2. Certificate Page
   i. Supervisor's Certificate
   ii. Internal and External Examiner's Approval
3. Corporate Certificate (Optional)
4. Abstract Page
5. Acknowledgement
6. Table of Contents
7. List of Symbols, List of figures & List of Tables
8. Main Report

9. Appendices (Screen Shots, Source Code Snap Shots)
10. References and Bibliography

Description:

1. Cover Page & Title Page: Title, Name of the Candidate and University Roll No., Name of Supervisor, College Name (and logo) with University name and month and Year of submission.

2. Supervisor's Certificate: It certifies that the student has carried out the project work presented under his/her supervision. It approves that the project work embodies result of original work and studies carried out by the student himself and the contents of the project do not form the basis for the award of any other degree to the candidate or to anybody else.

3. Internal, External Examiners' Approval: It approves the acceptance of the project work for the partial fulfillment of the award of the course.

4. Acknowledgement: The student may thank all those who helped in the preparation of project.

5. Abstract of the report should be not more than one page: It should include the purpose of the study, the methodology used and a summary of the major finding, conclusions and recommendations.

6. Table of Contents should contain the title of the contents of the document and their respective page numbers.

7. Main body of the Project: This is major part of the project giving the detail of the project work. The project may be divided into chapters with suitable titles.

8. Appendices: Appendices are provided to give supplementary information, which is included in the main body that may serve as a distraction and cloud the central theme. Appendices should be numbered using Arabic numerals, e.g. Appendix I, Appendix II, etc. Appendices, Tables and References appearing in appendices should be numbered and referred to at the appropriate places just as in the case of chapters. Appendices shall carry the title of the work reported and the same title shall be made in the content page also.

9. List of Reference and Bibliography: The listing of references should be typed 2 spaces below the heading "REFERENCES" in alphabetical order in single spacing left-justified. Should be numbered consecutively in square [] brackets, throughout the text and should be collected together in the reference list at the end of your report. The references should be numbered in the order they are used in the text. The name of the author/authors should immediately followed by the year and other details.
   Eg.

   [1]. Ariponnammal, S. and Natarajan, S. (1994) 'Transport Phenomena of Sm Sel – X Asx', Pramana – Journal of Physics Vol. 42, No.1, pp.421-425.

Prescribed Format for Chapters and their Arrangement in Main Report

1. Introduction of the Project
2. Problem Statement (a paragraph)
3. Objective (written in bullet; can be up to 3 to 5 starts with "To..")
4. Scope of Project

5. Requirement Analysis and Feasibility Study
6. System Design (Fundamental or Objective Oriented Design as per the nature of the project)
7. Implementation
8. Testing
9. Maintenance and Support
10. Conclusion and Enhancements

The main heading outlined above will be divides into several chapters and each chapter may be further divided into several divisions and sub-divisions as required.

Committee:

1. Mr. Dhiraj Kedar Pandey (Assist. Professor)   - Expert and Coordinator
   (deerajkedar@yahoo.com)
2. Mrs. Lalita Sthapit (Assist. Professor)   - Expert and Coordinator
   (lastha@gmail.com)
3. Mr. Mahesh Kumar Yadav (Assist. Professor)   - Patan Campus
   (N/A)
4. Mr. Bhoj Raj Ghimire (Lecturer)   -Amrit Campus
   (bhojghimire614@gmail.com)
5. Mr. Rom Kanta Pandey (Lecturer)   -New Summit
   (N/A)
6. Mr. Sushant Paudel (Lecturer)   -Kathford College
   (N/A)

(A Typical Specimen of Cover Page & Title Page)

NAME OF THE COLLEGE

Tribhuvan University

Institute of Science and Technology

TITLE OF PROJECT REPORT

A PROJECT REPORT

Submitted to
Department of Computer Science and Information Technology
Name of the College

In partial fulfillment of the requirement for the Bachelor Degree in Computer Science and Information Technology

Submitted by

Name of the candidate

Month and Year

A Typical Specimen of Approval)

College Name
Tribhuvan University

LETTER OF APPROVAL

This is to certify that this project prepared by NAME OF THE STUDENT entitled "TITLE

OF THE PROJECT………………." in partial fulfillment of the requirements for the degree

of B.Sc. in Computer Science and Information Technology has been well studied. In

our opinion it is satisfactory in the scope and quality as a project for the required

degree.

Signature of the Supervisor	Signature of the HOD/Coordinator
SIGNATURE	**SIGNATURE**
Name and Academic designation	Name and Academic designation
Department name and fulfillment of the college	Department name and full address of the college
Signature of the External Examiner	**Signature of the Internal Examiner**
SIGNATURE	**SIGNATURE**
Name and Academic designation	Name and Academic designation
Department name and full address of the institution	Department name and full address of the institution

(A typical Specimen of Certificate)

College Name
Tribhuvan University

Supervisor's Recommendation

I hereby recommend that this project prepared under my supervision by NAME OF THE STUDENT entitled "TITLE OF THE PROJECT…………………" in partial fulfillment of the requirements for the degree of B.Sc.in Computer Science and Information Technology be processed for the evaluation.

<<Signature of the Supervisor>>

SIGNATURE

<<Name>>

SUPERVISOR

<<Academic Designation>>

<<Department>>

<<Full address of the Dept. & College>>