



FACULTY OF COMPUTING AND INFORMATION TECHNOLOGY

GUIDELINES FOR DIPLOMA/UNDERGRADUATE PROJECTS (DIT503, DBIT506, BAC 4500, BAC 2206, BCT 3106, BIT 2206, BIT 3205, BIT 3205A, KCA 398, KCA399)

The main aim of the project units is to give learners the experience of developing a software project with focus on development, installation, operation, maintenance and administration of the software. The projects are a requirement for the undergraduate programs.

PROJECT AREAS

Suggested areas are;

- (1) Information system development for a real client
- (2) Mobile computing systems
- (3) Web applications (for two trimester projects)
- (4) Projects suggested by Faculty

PROJECT PLANNING AND EXECUTION

The students are expected to plan their project and execute it in the following manner; (1) Supervisor Allocation – A supervisor will be nominated for each student by the HOD Projects and Attachment. This will be done at the beginning of the trimester. Change of supervisors mid-stream is prohibited.

- (2) Ideation – This is the conceptual stage. The student should consider a solution to a problem facing a real organisation. A list of ideas in the form of a short abstract may be written and must be presented to the supervisor. The student is expected to have a note book at every visit and write the suggestions.
- (3) Proposal – This document provides the background, problem, solution, justification, literature review, importance of the study, and so on. A schedule and budget are also expected. The student MUST discuss the proposal with the supervisor
- (4) Proposal Presentation – The first of two presentations, this is a requirement. and constitutes the course work
- (5) System Requirements Specifications (SRS) – This is a general document for the system requirements and will include the purpose, general system description, functional and non-functional requirements and so on. The document MUST be discussed with the supervisor
- (6) System Design Specifications (SDS) – This is a more technical document detailing the logical design of the system. This document MUST be presented to the supervisor

and discussed

- (7) System Implementation – This involves coding of the software (In some systems hardware may be set up and configured). If multiple components are needed they should be designed and tested separately then intergrated. Supervisors should be consulted in this stage also
- (8) Testing – This involves confirming that the system works, validation, verification and evaluation
- (9) Final Presentation – This is the second and final presentation. In addition to the powerpoint presentation, the student must have a working system. The student should demonstrate that the project objective(s) have been met.
- (10) Documentation – The student will present for marking a final project document. The document will be spiral bound.

ASSESSMENT

Assessment will be in the following manner;-

- a) The student MUST make the two presentations , the proposal presentation and the final presentation. Both presentations should be before a panel made up of faculty supervisors. The presentations constitute the course work of the project (30%)
- b) The student should present ALL the required documents and in good time
- c) The document and other work done will constitute 70% of the final results.
- d) All students must consult with their supervisors on a regular basis. One semester projects require a weekly consultation, two semester projects require a bi-weekly consultation.
 - i. Proof by way of signing attendance sheets is a requirement.
 - ii. Students who do not consult their supervisors will be deemed to have absconded the project and will not be allowed to make any presentations.
 - iii. The student is expected to have a note book at every visit and write the suggestions.
- e) Where a student does two projects, the two trimester project will be done AFTER the one trimester project.
- f) The students who have a two trimester project MUST complete the project in two consecutive trimesters. (No break will be allowed; see (d) above)
- g) Students are NOT allowed to do two projects in the same trimester
- h) Plagiarism of any form will lead to disciplinary action

A guide is given below

Propo sal	SRS	SDS	Impem en tation	Testin g	User Manual	Final documen t	Compil ed system	Proposal Presentation	Final Presentation
10	10	10	10	5	5	10	10	10	20