



UGANDA CHRISTIAN
UNIVERSITY

A Centre of Excellence in the Heart of Africa

FACULTY OF ENGINEERING, DESIGN AND TECHNOLOGY
DEPARTMENT OF COMPUTING AND TECHNOLOGY
EASTER 2025 SEMESTER CAPSTONE PROJECT

PROGRAM: *BACHELOR OF SCIENCE IN COMPUTER SCIENCE*

YEAR: 2 SEMESTER: 2

COURSE CODE: *CSC2210*

COURSE NAME: *WEB PROGRAMMING*

TIME ALLOWED: *Two weeks*

Examination Instructions

1. The general Uganda Christian University examination guidelines and academic & financial policies apply to this examination. Violating any of the policies by the student automatically makes this examination attempt void, even if you have completed and submitted the answer booklet.
2. This exam consists of a project to be executed in *two* weeks.
 - a. Assessment of the project shall be based on five milestones, evaluated during the duration of the project. Each milestone shall be evaluated out of 20 marks.
 - b. At the end of the project, the following SHALL be submitted on Moodle.
 - i. A well-written project (Font: Trebuchet MS, 12Pts, 1.5 spacing, justified aligned), IEEE Referencing style.
3. Every student has a responsibility to prove their contribution towards every milestone, and marks may be awarded to every student individually.

PART A:

PROJECT DESCRIPTION

The modern job market presents significant challenges for both employers and job seekers. Employers struggle to find qualified candidates efficiently, while job seekers face a fragmented and often overwhelming application process. To address these issues, we are tasked with developing a robust, user-friendly, and efficient online job posting and application platform.

This project aims to create a centralized web-based system where employers can easily post job openings, and job seekers can seamlessly search, filter, and apply for relevant positions. The platform will facilitate a streamlined recruitment process, enhancing communication between employers and job seekers.

For this project, you will use your web programming skills to design and build a practical job posting and application system. This project demands a comprehensive application of web development principles, including user role implementation (employers, job seekers, and potentially administrators), robust database design, seamless front-end (React.js) and back-end (Node.js) integration, and rigorous security considerations.

Creative problem-solving and exploration of cutting-edge web development techniques are highly encouraged to build an innovative and effective platform.

PART B: Project-based assessment guidelines

S/N	Milestone Description	Maximum Marks
1	MILESTONE ONE Focus on Conceptualization and Design to research, outline requirements, design system architecture, and explain design decisions.	20 %
2	MILESTONE TWO Focus on Core Functionality Implementation, implement user authentication and enrollment, applying programming principles.	20 %
3	MILESTONE THREE Focus on Advanced Feature Development, develop chapter president functionalities, analyzes data for trends, and integrates modules	20 %
4	MILESTONE FOUR Focus on Evaluation and Optimization, conduct system review, identify improvements, and present findings.	20 %

5	MILESTONE FIVE Focus on Creation and Documentation, create project documentation, synthesizes project aspects, and prepares a final presentation.	20 %
	TOTAL MARKS	100 %

~END OF EXAM GUIDELINES~