

**Department of Information and Communication Technology**

**Faculty of Technology**

**University of Ruhuna**

**TecSys**

System for Faculty of Technology / University of Ruhuna

**Object Oriented Programming Practicum – ICT 2132**

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**INTRODUCTION**

Purpose

The purpose of TecSys is to define the functional and non-functional requirements of the Faculty Management System designed for the Faculty of Technology, University of Ruhuna. This management system aims to streamline administrative, academic and undergraduate related processes by providing an integrated platform to manage user roles, academic records.

TecSys will serve to different user profiles, including Administrators, Lecturers, Students and Technical officers ensuring both secure access and reliable functionalities. With the implementation of this system the Faculty of Technology aims to enhance operational efficiency, improve data accuracy for all the users.

Scope

The TecSys is a comprehensive, role-based software solution which is designed for the convenience of the academic and administrative processes within the Faculty of Technology. The system is implemented as a centralized, MySQL based system which ensure the data management, security and accessibility for relevant users. Aim of implementing this Faculty Management System is to enhance efficiency, accuracy, and user experience in academic and administrative operations.

Overview

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**DESCRIPTION**

System Objectives

* Efficient User Management
  + Provide a role-based authentication system for Admins, Lecturers, Undergraduates and Technical Officers
* Student Welfare and Academic Consideration
  + Enable undergraduates to submit medical records for academic absence
* Data Integrity, Security and Accessibility
  + Ensure secure storage of student records, marks and attendance data using a MySQL database.
* Operational Efficiency and Automation
  + Reduce manual workload by automating data processing and reporting.
* Streamlined Course and Academic Management
  + Maintain an organized record of course details, credit values and assigned lectures.