

Automatic Lecture Time Table Generation System
System Test Plan
Version 1.0

## 1. Introduction

### Purpose

This document is a test plan for the Automatic Lecture Time Table Generation System produced by the Project team. It describes the testing strategy and approach to testing the team will use to verify that the application meets the established requirements of the software.

### Objectives

1. Meets the requirements and specifications of the software.
2. Supports the intended software functions and achieves the required software standards.

## 2. Functional Scope

The Modules in the scope of testing for the Automatic Time Table Generating System Testing are mentioned in the document attached in the following path:

Functional Requirement	Expected Output
Admin login with id and password	Should be redirected to dashboard successfully
Admin selects excel document which contains data regarding courses and student ids of those who have registered in those courses.	Should be able to select the appropriate excel document
Admin generate time table for lecture	Should generate the lecture time table from given data in excel document successfully
Admin generate time table for lab	Should generate the lab time table from given data in excel document successfully
Admin retrieve program information	Should be able to see all the programs conducted in institute
Admin add program	Should be able to add new programs in database
Admin update a program by giving ID	Should be able to update program detail of given ID in the database.
Admin delete program by giving ID	Should be able to remove the program with given ID from the database.
Admin retrieve course information	Should be able to see all the courses conducted in institute

Admin add course	Should be able to add new courses in database
Admin update a course by giving ID	Should be able to update course detail of given ID in the database.
Admin delete course by giving ID	Should be able to remove the course with given ID from the database.
Admin retrieve faculty information	Should be able to see all the faculties conducted in institute
Admin add faculty	Should be able to add new faculties in database
Admin update a faculty by giving ID	Should be able to update faculty detail of given ID in the database.
Admin delete faculty by giving ID	Should be able to remove the faculty with given ID from the database.

### 3. Item Pass/Fail Criteria

#### Item Pass Criteria

Functional Requirements	Pass Criteria
Admin login with id and password	Admin needs to enter correct id and password
Admin selects excel document which contains data regarding courses and student ids of those who have registered in those courses.	Admin should select correct file containing data for generating time table.
Admin retrieve program information	Must be redirected to Program page displaying list of programs
Admin add program	Admin should enter the correct data in input fields
Admin update a program by giving ID	Only existing selected record should be updated
Admin delete program by giving ID	Selected recorded must be removed from database
Admin retrieve course information	Must be redirected to Course page displaying list of courses
Admin add course	Must enter the proper details in input fields
Admin update a course by giving ID	Selected recorded must be updated in database
Admin delete course by giving ID	Selected entry must be removed from database
Admin retrieve faculty information	Must be redirected to Faculty page displaying list of faculties

Admin add faculty	Should enter proper details in input fields
Admin update a faculty by giving ID	Only selected entry gets changed in database
Admin delete faculty by giving ID	Only selected entry gets removed from database

### Item Fail Criteria

Functional Requirements	Fail Criteria
Admin login with id and password	Any of the two are incorrect than login fails.
Admin selects excel document which contains data regarding courses and student ids of those who have registered in those courses.	If wrong file has been selected it will not be able to generate time table.
Admin retrieve program information	Program page does not loads displaying list of courses.
Admin add program	Proper data is not entered in input fields
Admin update a program by giving ID	Program to be updated is not present in database
Admin delete program by giving ID	Record is not present in database
Admin retrieve course information	Course page does not loads displaying list of courses.
Admin add course	Proper data is not entered in input fields

Admin update a course by giving ID	Course to be updated is not present in database
Admin delete course by giving ID	Record is not present in database
Admin retrieve faculty information	Faculty page does not loads displaying list of faculties.
Admin add faculty	Proper required data is not entered in required fields
Admin update a faculty by giving ID	Selected record to be updated is not present in database
Admin delete faculty by giving ID	Record to be deleted is not present in database

#### 4. Environmental Needs

Sr. No.	Environment
1.	User should have any device which can access browser and should match required browser version.
2.	User should have internet connection.