

ITEC243 – Project Topics (2017-2018 Spring)

Students who would like to work on a project are required to choose one of the topics listed below. Main components are given however you are to add the specifications for the topic you have chosen and use C++ language to design it. You can optionally create user interfaces (in Visual C++) for your project.

Some topics that you need to include in your project:

- Dynamic Memory Allocation (DMA) (since you don't know how to work with files you should use DMA),
- Aggregation (Composition)
- Inheritance
- Operator Overloading
- Friend Functions
- Templates

Report submission should include the following: Project Topic, Description of the topic, specifications of the system, Source Code, Screen Shots [User Interfaces], References.

Submission Date: 25/MAY/2018 by 4 p.m.

1. Hospital Management System

(Patients (in-patient, out-patient), Doctors, Treatments etc...)

2. Bank System

(Opening Account, Closing Account, Seeing details of customers, update customers balance (withdraw, deposit), etc...)

3. Hotel Reservation System

(Reserving a room, Checking Vacant Rooms, Customers Information, Deleting a reservation etc...)

4. Scientific Calculator

(Simple Operations, Trigonometric and Logarithmic Functions etc...

Multiplication, Division, Subtraction, Addition, Square Root, Logarithm, Sin etc...

You are allowed to use <math.h> library)

5. Inventory Management System

(Create Product Group, Add a Product, update products, Delete a Product, Send an alert to admin if product threshold is less than 10, Admin add customers, suppliers, sales representative, and link all product group to a supplier).

6. Student Information System

(Personal Info, Check Timetable, Curriculum, Attendance etc...) I.e. EMU Student Portal