**3. System Requirements:**

***3.1 Functional Requirements:***

* + Students with GPA less than 2.0 can't register more than 16 credit hours and students with GPA more than 2.0 can register a maximum of 20 credit hours.
  + Each professor can't teach more than 9 credit hours per semester.
  + No student could be registered in a course twice.
  + The student couldn’t drop or withdraw a course unless it's already registered in it.
  + Each course can't have more than 1 instructor and 100 students.
  + The system should be able to calculate each student's payment based on his registered credit hours.
  + The system should be able to calculate each professor's salary based on his teaching credit hours.
  + The system should reserve an empty class room for the used in the provided time slot.
  + The user should be able to open or close any course he wants.
  + The student can't add a closed course.
  + The user can't open and close the course in the same session.
  + The user can't register a new student and a professor at the same time.
  + The user can't add a new course with an invalid professor's name.
  + The user can't reserve a classroom after 20:00 o'clock.

***3.2 Non-Functional Requirements:***

* + The program should be written in java programming language.
  + The program should be delivered by 5th of May.
  + The program shouldn’t take more than 50 Megabytes of memory.
  + The program should have a user guide.
  + The system should have the faculty logo on the home page.
  + The program should work on any laptop or PC running windows operating system.
  + Any process in the program shouldn't take more than 3 minutes.