

Group No.: ____B____

Project No.: ____Z____

Project Name: IIT BHILAI COURSE MANAGEMENT SYSTEM

PHASE - I
REQUIREMENTS DOCUMENT

I. MINIWORLD :

The Course Management System is designed to help instructors in managing the courses they offer and students in manage their enrollment in courses. This Centralized database will be available to all the student and faculty of IIT Bhilai. It allows the instructors and students to manage their courses and saves their time because they can access all the information in one place. An instructor can float any number of courses and manage the students enrolled. Any student who want to enroll for a course (or courses) must be a registered student. In case he/she is not, then the student has to create an account using his/her institute email id given by academic section and enroll for his/her course(s). An instructor can modify course details like prerequisites, course content, credits, etc. He/she will be able to see the details of the students who have registered for the course. If a student enters or leaves the course his details will have to be added or removed from the database. Similarly if a faculty decides that they cannot offer a course or the course is to be taken by some other faculty, the course will have to be removed or it's instructor changed. The summary of all the available courses and their instructors, number of students enrolled in different courses, and number of courses in each department can be easily enquired using the stored database, which is regularly updated.

II. DATABASE REQUIREMENTS :

Instructors must register themselves using their unique institute id and create courses which they will offer in the coming fractal. A fractal is a one and half month period. An instructor might be a professor or a TA. Each course will have unique course id, title and description. Undergraduate and Postgraduate students register themselves using their institute id and enroll for courses which is going to offer in coming fractal. All departments will offer different courses which will be made available to students of his own departments except few courses like basic sciences, open elective, CALA, etc.

Registered students can view the course content and enroll for it if they fulfill the prerequisites for that course. Students will either belong to Undergraduate, Postgraduate or Honours. To enroll a student need to create an account using his/her institute id and email id. Enrollment is allowed only for specific academic year. The student enrollment is approved by the DUGC and DPGC of his/her respective department.

Student add or drop the course only in the first week of each fractal. If a student want to add/drop a course after that week he can do with the approval of DUGC/DPGC.

Professor or TA posts slides, and notes for his/her class. They put some announcement to inform the student if there is some change in class schedule or location of class.

Every registered students can view his/her grades and exam results in his/her enrolled courses.

Instructor may make the grade public or each student can view only his/her grade. Grades of quizzes are made available after the quiz or once the course finishes. He/she can analyze his/her performance in the courses.

The courses has term like spring, summer or fall. After the term, the course becomes inactive. Instructor updates the course and make it available for new academic year for students to enroll.

Constraints:

1. Students should have unique institute id.
2. Students must use the institute's email id for enrollment.
3. Students are enrolled only if DUGC ^{or DPGC} approves.
4. Student should not register for the course which he/she has already passed. If he/she is, then the final grade of the course will be of the later one.
5. A course cannot run for more than 6 fractals.
6. A course cannot run for less than 1 fractal.
7. Student can add/drop a course only within the first week after the commencement of the course.
8. Instructor must belong to only one department.
9. Students can enroll for subset of courses which will be offered to him/her in the fractal.
10. Student can view only his grades and exam result.
11. Instructor cannot change the unique id of a course. Neither he/she can change the title of course.
12. Instructor cannot change the grade once the course becomes inactive.

III. APPLICATION REQUIREMENTS :

There must be provision for:

1. Addition of new department in the institute.
2. Addition of new instructor in a department.
3. Addition of new course in a department by the instructor.
4. Registration of student in the course management system.
5. Student to enroll in a course.
6. Student to unenroll from a course.
7. DUGC to accept/reject the course registration.
8. Updation of the Head of department.
9. Updation of the course detail.
10. Updating the list of students in a particular course after every semester.
- ~~11.~~ 11. Displaying the list of departments in the institute.
12. Displaying the list of all the courses offered by a department.

- 13. Displaying the course detail of a particular course.
- 14. Displaying the list of all the students in a particular course.
- 15. Displaying the list of head of departments.
- 16. Displaying the list of all the instructors of a particular department.
- 17. Displaying the list of courses taken by an instructor.
- 18. Displaying the list of all the students.
- 19. Displaying the list of courses taken by an student.
- 20. Displaying the grades of an student.
- 21. Adding grade of Each student.
- 22. Updating Department Details like Phone No., Office, ~~etc~~ DPGC, DUGC, etc
- 23. Updating Faculty/Instructor Details.
- 24. If an Instructor leaves the Institute, then archive his details.
- 25. Updating student's Profile.
- 26. Converting Students to Alumni if they Graduate.
- 27. ~~Addition~~ Addition of Course Material.
- 28. Addition of Announcements.
- 29. Registering request for Add/Drop.
- 30. Updating status of Add/Drop request.