

FACULTY OF COMPUTER APPLICATIONS

- **Course** : BCA
- **Sem.** : 6
- **Subject Code** : 05BC0604
- **Subject** : **User Defined Project (UDP)**

- **Objective** : The objectives are as follows;
 1. To apply programming knowledge for solving industrial (or society or research) problems.
 2. To collect, analyze requirement, plan, schedule, and monitor the software project
 3. Development, coding, and testing of a large project cohesively.
 4. Documentation of project

- **Prerequisites** : Software engineering concept, Programming Language fundamentals.

Guidelines

- The project definition should be finalized internally at the beginning of semester. Any 'good' industrial definition will also be acceptable for industry exposure.
- It is recommended that the team should be of 2-3 students.
- Project plan along with the division of work amongst teammates would have been prepared and got approved within a week of the starting of semester from internal guide or project coordinator.
- It is recommended to follow different software engineering framework activities for the project development like requirement collection, designing model, coding , testing etc.
- Coding standards should be followed meticulously. At the minimum, the code should be self documented, modular, and should use the meaningful naming convention.
- It is advisable that object-oriented methodology is used with reusability of classes and code, etc.
- The documentation should include a chapter of literature review process to analyze an existing system available in the market relevant to project definition. Also include different suitable diagram for understanding project.
- Data structure (database design) is mandatory.
- A complete code is mandatory to present at the end of semester for evaluation. Student may be asked to write the code related to the project during examination.

FACULTY OF COMPUTER APPLICATIONS

- Project can be developed using any programming language which has been already learnt or using latest programming language but coding should be there in project development.

 - **Accomplishments of the student after completing the course:**
 - Doing the project will enable the student to go through rich experience in developing projects & application of programming knowledge. Such an experience will include encountering various technical issues, finding sources to resolve the issues and finally finding the solution of all these issues satisfactorily.
 - Thinking analytically, analyzing and synthesizing requirements and complicated information for getting a good comprehension of the solution methodology to be adopted.
 - Ability to document and write well.
 - Organizing the time effectively.
 - Working with teammates and generating substantial output of the efforts.
 - It will prepare the students for analyzing and programming for industrial problem and large projects work in future.
-