

**Course Title: Project II (2 Cr.)**  
**Course Code: CAPJ356**  
**Year/Semester: III/VI**  
**Class Load: 4 Hrs. / Week (Practical: 4 Hrs.)**

### Course Description

To develop small scale project based on the application development platforms and tools (JAVA, visual c++, PHP , Python or plate form of any current trend. This course provides practical skill based knowledge.

### Course objectives

The objectives of this course are to provide project management skills (developing, implementing, managing collaboration) and to learn working as a team. The student will also learn about formulating project documentation.

### Course Contents

<b>Unit 1: Project Ideas and proposal guidance</b>	<b>4</b>
1.1 Project concept and Scope	
1.2 Proposal writing techniques	
<b>Unit 2: Application Development</b>	<b>8</b>
2.1 Object oriented programming	
2.2 Frameworks and APIs	
2.3 Programming design patterns	
2.4 Data collection for project	
2.5 Application of GPUS	
<b>Unit 3: Project management, team work and collaboration</b>	<b>8</b>
3.1 Project management techniques	
3.1.1 Develop project management plan	
3.1.2 Project implementation, monitor and control	
3.2 Collaborative development environment	
3.2.1 Communications planning process	
3.2.2 Organizing and conducting effective meeting,	
<b>Unit 4: Project Guidance</b>	<b>5</b>
<b>Unit 5: Project work</b>	<b>30</b>



## Unit 6: Project documentation guidance

5

- 4.1 documentation format
- 4.2 Table writing format
- 4.3 Figure writing format
- 4.4 Writing equation
- 4.5 References and citation techniques
- 4.6 Abstract writing

### Reference Books:

1. The Project Manager's Guide to Software Engineering's Best Practices, M. C. Christensen and R.H. Thayer, IEEE computer Society
2. Angelika H. Hofmann, " Scientific Writing and Communication: Papers, Proposals, and Presentations Oxford University Press; 3 edition (November 17, 2016)

