MCA **16MA309** **Practical –MINI PROJECT I**

Course Objective : To enable the students to understand the principles and practice of programming and design in the construction of robust, maintainable programs which satisfy their requirements;

Expected Level of Output: Working Level

Department offered: Computer Applications

Course Inputs:

Ex.	Description	Text Book	Chapter	Practical Hours
I	**Name:** Identification of real time problem **Input: P**roblem Requirement **Functions to be used: Requirement gathering** **Expected Output:** Initial study	**A**	**9**	**3**
II	**Name:** Literature survey and exploring different solutions for the problem **Input: P**roblem Requirement **Functions to be used:** Constraints **Expected Output: Literature study**	**A**	**16**	**4**
III	**Name:**Model development and Design methodologies **Input: P**roblem Requirement **Functions to be used: DFD, ER** **Expected Output: Software Design**	**A**	**32**	**4**
IV	**Name:** System requirements and specification **Input: P**roblem Requirement **Functions to be used: Requirement analysis** **Expected Output:SRS**	**A**	**32**	**3**
V	**Name:** Implementation and Testing **Input: P**roblem Requirement **Functions to be used: methods and test case** **Expected Output:** Coding and test document	**A**	**33**	**3**

VI	**Name:** Report preparation. **Input: P**roblem Requirement **Functions to be used: report generation** **Expected Output:** Project report	**A**	**33**	**3**
	Total Hours			33

Software essential: Based on the project requirement

Text Book(s):

A. Roger S Pressman Software engineering.

Reference Books:

1. K. Arnold and J. Gosling - The Java Programming Language - Second Edition, Addison Wesley, 1996.
2. Cay S.Horstmann, Gary Cornell - Core Java 2 Volume I Fundamentals,5th Edn. PHI,2000.