IMS Engineering College, Ghaziabad

Mini Project

Subject Name: Mini project
Subject Code: KCS-354

COURSE: B.Tech.

SEMESTER:

by

Student Name (Roll No)

Department of Computer Science and Engineering
IMS ENGINEERING COLLEGE
NH-09, Adhyatmik Nagar, Ghaziabad-201015
(2022-23)

Vision and Mission of the Institute and Department

Vision of the Institute

"To make IMSEC an Institution of Excellence for empowering students through technical education coupled with incorporating values and developing engineering acumen for innovations and leadership skills for the betterment of society."

Mission of the Institute

- To promote academic excellence by continuous learning in core and emerging Engineering areas using innovative teaching and learning methodologies.

- To inculcate values and ethics among the learners.

- To promote industry interactions and produce young entrepreneurs.

- To create a conducive learning and research environment for life-long learning to develop the students as technology leaders and entrepreneurs for addressing societal needs.

Vision of the Department

To provide globally competent professionals in the field of Computer Science & Engineering embedded with sound technical knowledge, aptitude for research and innovation with ethical values to cater to the industrial & societal needs.

Mission of the Department

M1: To provide quality undergraduate education in both the theoretical & applied foundations of Computer Science Engineering.

M2: Conduct research to advance the state of the art in Computer Science & Engineering and integrate the research results as innovations.

M3: To inculcate team building skills and promote life-long learning with high societal and ethical values.

Program Outcomes (POs)

S. No.	Program Outcomes / Program Specific Outcomes
PO1.	**Engineering knowledge**: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
PO2.	**Problem analysis:** Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
PO3.	**Design/development of solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
PO4.	**Conduct investigations of complex problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
PO5.	**Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modelling to complex engineering activities with an understanding of the limitations.
PO6.	**The engineer and society:** apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
PO7.	**Environment and sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
PO8.	**Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
PO9.	**Individual and team work**: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
PO10.	**Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
PO11.	**Project management and finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
PO12.	**Life-long learning:** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

Program Specific Outcomes (PSOs)

PSO1: To apply standard software engineering practices & strategies in real-time software project development

PSO2: To apply latest programming languages in creating innovative career opportunities.

Program Educational Objectives (PEOs)

Graduate Will:

PEO1: Possess knowledge to enable continued professional development.

PEO2: Engage in life-long learning to foster personal & organization growth.

PEO3: Work productively as successful professionals in diverse career paths.

PEO4: Effectively communicate ideas to promote collaboration in accordance with societal standards & ethical practices.

Course Outcomes

CO. No.	DESCRIPTION	COGNITIVE LEVEL (BLOOMS TAXONOMY)
CO1(C209.1)	Developing a technical artifact requiring new technical skills and effectively utilizing a new software tool to complete a task	**K4,K5**
CO2(C209.2)	Writing requirements documentation, Selecting appropriate technologies, identifying and creating appropriate test cases for systems.	**K5,K6**
CO3(C209.3)	Demonstrating understanding of professional customs & practices and working with professional standards.	**K4,K5**
CO4(C209.4)	Improving problem-solving, critical thinking skills and report writing.	**K4,K5**
CO5(C209.5)	Learning professional skills like exercising leadership, behaving professionally, behaving ethically, listening effectively, participating as a member of a team, developing appropriate workplace attitudes	**K2,K4**

CO-PO-PSO Mapping

	PO 1	PO2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO1	PSO 2
C209.1	3	3	3	3	3	2	1	2	2	2	2	3	3	3
C209.2	3	3	2	2	2	1	1	2	2	3	1	1	2	3
C209.3	1	1	1	1	1	3	2	3	2	2	2	2	2	1
C209.4	3	3	3	3	3	2	1	1	2	3	1	3	1	1
C209.5	1	1	1	1	1	2	2	3	3	3	3	1	1	1
C209	**2.2**	**2.2**	**2**	**2**	**2**	**2**	**1.4**	**2.2**	**2.2**	**2.6**	**1.8**	**2**	**1.8**	**1.8**

DECLARATION

I hereby declare that this submission is my own work and that, to the best of my knowledge and belief, it contains no material previously published or written by another person nor material which to a substantial extent has been accepted for the award of any other degree or diploma of the university or other institute of higher learning, except where due acknowledgment has been made in the text.

Signature*:*
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CERTIFICATE

This is to certify that Mini Project/Internship Assessment Report entitled " " which is submitted by _____ in partial fulfillment of the requirement for the award of degree B. Tech. in Department of Computer Science and Engineering of Dr. APJ Abdul Kalam Technical University, Uttar Pradesh, Lucknow is a record of the candidate's own work carried out by him/her under my supervision. The matter embodied in this report is original and has not been submitted for the award of any other degree.

Supervisor :
Date :

ACKNOWLEDGEMENT

I would like to express my gratitude to Dr./Mr./Ms._____my supervisor for this project. I would like to thank her for her constant support, enthusiastic encouragement and useful critiques. I would like to thank our Director_____ and HOD of Computer Science and Engineering _____ for providing me this opportunity.

ABSTRACT

TABLE OF CONTENTS

Contents   **Page No.**

Front page
The front page of the proposal should contain the project title, Followed by your name.
The contents of this proposal report should contain the following:

Project Report Layout
Project report should contain all the details and text should be short and concise, lengthy reports may not be qualitative, and care should be taken to edit the material sensibly. The project report should normally be printed with single line spacing on A4 paper (one side only). Figures should be clearly drawn and all material should be reproducible by normal photocopy. All pages, tables and figures must be numbered and figures should have titles. Detailed information about the layout for the project proposal and report are also listed below:

Font size and margin
1. The report is to be bound with a clear front cover.
2. The text is in 12-point Times New Roman font.
3. The pages are of A4 size, with margins as given below, except for the front cover, which has a specific format given, Margins of pages should follow the following specifications.
 a. Left margin - 2 inch. from edge of paper.
 b. Right margin - 1 inch. from edge of paper.
 c. Top margin - 1 inch. from edge of paper.
d. Bottom margin - 1 inch. from edge of paper.
4. The above margins shall be observed on charts, graphs, tables, and drawings. Folded papers or large size paper will not be accepted unless there is absolutely no other way for the material to be presented.

Heading
1. Headings used in the project report should follow the following convention:
2. Main Headings or Chapter Headings
a. Times Roman, 16 Font size (1,2,3 etc.) numerals.
b. Capital and Bold.
c. Must begin a new page and be centered.
d. Main headings are to be titled names that reflect content of the text that follows. Main headings are not to be identified as chapters.
e. The number of the headings shall be followed by a period and two spaces. f. Must precede the following text material by second heading by three spaces.
3. **Second Heading and sub-heading**
 a. Times Roman, 12 Font size, Bold, 2.1, 2.2, 2.3, etc.
 b. First sub-headings a. Times Roman, 12 Font size, Bold, 2.2.1, 2.2.2, etc.

Figure and Tables
- Each figure has a number and a caption below the figure. As given in the example of a Figure.
  Figure 1: A typical computer network
- Each table has a number and a title above the table. As given in the example of a Table.
  Table 1: Comparison of various data structures

CHAPTER 1
INTRODUCTION