# Minor Project

**For**

###### **Bachelor of Computer Applications (BCA)**

**(Session 2025)**

## **Module Manual**

# Instructor:

# Prof. Sanjay Kumar Sharma

**Fifth semester**

**Section: A, B**

**Session – 2025-26**

**© Institute of Technology and Science**

**Index**

|  |  |  |
| --- | --- | --- |
| S. No. | Contents | Page No. |
| 1 | Module descriptor | 3 |
| 2 | Introduction and Learning Objectives | 3 |
| 3 | Mode of assessment | 4 |
| 4 | University Syllabus | 4 |
| 5 | Suggested Readings | 4 |
| 6 | Reference Available in the Library | 4 |
| 7 | Key Dates | 4 |
| 8 | Session Plan | 5 |
| 9 | Format of Scenario Document | 6 |
| 10 | Format of SRS | 7-10 |
| 11 | Guideline to prepare Project Report | 11-14 |
| 12 | Final Submission | 15 |
| 13 | Suggested Project Titles | 15 |

1. **Module Descriptor**

**Module Title: Project Work**

**Academic Year: 2025-26 Total Sessions: 32**

**Time (per session):55-minute Paper ID: BCA 507**

**Semester V**

**2.Introduction:** After passing the course the student understands the basic concepts of Software development Life Cycle. The student is able to understand the concept of SRS. Student will be able to draw UML Diagrams (Use Case Diagrams, Sequence Diagrams, Activity Diagrams and Data Flow Diagrams). Students will be able to develop a static Web Based Application. Student will understand HTML, Java Script and CSS. Student will be able to write test cases and also apply these test cases for UI Testing.

**Objectives:** The basic objective of this Lab is to make students aware of following skills.

* To develop an ability to design and develop software specific to a given problem scenario.
* To apply the concept of software development life cycle to write SRS, design document, code writing of application, testing, deployment of application.
* To enhance the understanding and application of HTML, CSS, Java Script using tools such as notepad++, Dream Weaver etc by the student for project development.
* To know and apply the concept of deployment of a web based application

**Outcomes:** After completing of the Project, students are expected to understanding of following skills.

* Software development approaches & software architectural issues of application.
* Software languages like HTML/CSS/Java Script
* Key concepts of deployment of a web based application

**3.Mode of Assessment:**

|  |  |  |
| --- | --- | --- |
| **I.** | **Internal Exam** | **Duration (min/hours)** |
|  | 1. First (Presentation on SRS) 2. Second (Presentation of Final Project) | 10 Minutes( Each Group) |
| **II.** | Attendance | |
|  | **TOTAL (I+II)** | **50 Marks** |

**4.University prescribed Syllabus: Paper ID: BCA 507**

**5**.**SUGGESTED**  **READINGS TO IMPLEMENT STATIC APPLICATION**

**Software Engineering**: **K.K. Agrawal**

**HTML5 Black Book: Dreamtech Press**

**Mastering HTML, CSS &Javascript Web Publishing : BPB Publications**

**HTML & CSS: The Complete Reference, Fifth Edition**

In Developing project report students need hours of internet surfing and surveys to complete their project report and meet the desired outcome. Finding out the alternative ways students need to go through already built in projects and the problems with those projects.

**6. REFERENCES AVAILABLE IN THE LIBRARY:**

|  |  |  |  |
| --- | --- | --- | --- |
| **SR.NO.** | **NAME OF BOOKS** | **AUTHOR NAME** | **NO. OF COPIES** |
| **1.** | **HTML 5 Black Book** | **Kogent Ssolution** | **10** |
| **2.** | **HTML,DHTML Javascript Perl CGI** | **Ivan Bayross** | **13** |

**7.KEY DATES:**

|  |  |  |
| --- | --- | --- |
| **S. No.** | Document | Deadline |
| 1 | Scenario | 2nd week of August |
| 2 | SRS | 2nd week of September |
| 3rd | Project Report | 3rd week of November |

**8.Session Plan**

|  |  |  |  |
| --- | --- | --- | --- |
| **SNO** | **Topic** | **Lecture No** | **Reference** |
| 1 | Group Formation and Project topic discussions and understanding of the project | 1-2 |  |
| 2 | Introduction to HTML, Basic Tags of HTML | 3-8 | Ivan Bayross/W3Schools |
| 3 | Preparation of SRS | 9-14 | K. K. Aggarwal |
| 4 | Presentation of SRS | 15-16 | K. K. Aggarwal |
| 5 | UI Designing | 17-20 | Ivan Bayross |
| 6 | CSS | 21-22 | Ivan Bayross |
| 7 | Form validation using Javascript | 23-26 | Ivan Bayross |
| 8 | Implementation | 27-30 |  |
| 9 | UI Testing | 31 |  |
| 10 | Final Project Submission | 32 | It will be comprising uptil the designing of the project |

**9.Format of Scenario Document**

|  |  |  |
| --- | --- | --- |
| **S. No** | **Heading** | **Content** |
| 1 | Name of the project | It should be having title of the project |
| 2 | Objective/Vision | It should have clear Objective of the project to be developed |
| 3 | Users of the system | List the people who will use the project |
| 4 | Functional Requirements | Basic functionalities of the project |
| 5 | Non-Functional Requirements | Additional functionalities that will make your project impressive |
| 6 | Optional Features | Some optional features |
| 7 | User Interface Priorities | How effective will the user interface be |
| 8 | Other Important Issues | Any other important issues |
| 9 | Team Size | Members in a team with name and university roll number |
| 10 | Technology to be used | HTML and CSS (Designing)  JavaScript (Validations) |
| 11 | Tools to be used |  |
| 12 | Final Deliverables | Project Report  Complete Source Code |

**Signature of the team members**

**10.Format of SRS Document**

**Software Requirements Specification**



**<Project Title>**

**Submitted by:**

*<Team Name>*

*Name of Student-1:*

*(Roll Number)*

*Name of Student-2:*

*(Roll Number)*

**Institute of Technology and Science**

**Mohan Nagar, Ghaziabad**

**<Date>**

*Software Requirements Specification* *Page 1*

**Table of Contents**

**1. Introduction**

**1.1Purpose**

*The purpose of this document is to describe the Project’s purpose. This document contains the functional, behavioral and non- functional requirements of the project and it also contains the guidelines for system engineers and designers to start working the project.*

**1.2Intended Audience and Reading Suggestions**

*All the stakeholders of this project are intended audience.*

**1.3Project Scope**

*The features mentioned in the document are the only scope of the development.*

**1.4References**

**2. Definition, Acronyms, and Abbreviations**

*(List all the abbreviations that you are using in this document)*

3. Overall Description

**3.1Product Perspective**

*Describe the perspective of the product to be developed.*

*(Scope and Limitations of the project)*

**3.2Product Features**

*This system has following features –*



**3.2.1** **Functional Requirements**

**3.2.2** **Non Functional Requirements**

*Software Requirements Specification* *Page 2*

**3.3User Classes and Characteristics**

*Describe the type of users who will use this system.*

**3.4User Interfaces**

*(Show basic template of your page design)*

**3.5Operating Environment**

*(Explain the environment in which your project will run)*

1. Technologies to be used:
2. **Hardware Interface:**

**Minimum Hardware requirements**

**Client Side**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **Browser** | **Processor** | **RAM** | **Disk Space** | |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  | **Server Side** |  |  |  |  |
|  | **Web Server** |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  | **Database** |  |  |  |  |  |
|  |  |  |  |  |  |  |

6. Design and Implementation Constraints

*Mention if there is any design or implementation constraints.*

7. Architectural Design:

7.1Use case Diagram

7.3Sequence Diagram

7.4Activity Diagram

7.5Data Flow Diagram

1. Test cases:

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Test** | **Test Case** | **Test** |  | **Expected** | **Test** | **Severity** | **Test** | **Comments** |  |
| **Test #** | **Case** | **Input Data** | **(H/M/L)(if** |  |  |
| **Description** | **Procedure** | **Result** | **Results** | **Results** |  |  |
|  | **Name** |  | **Failed)** |  |  |
|  |  |  |  |  |  |  |  |  |

**11.Guidelines for preparing Project Report**

***Paper Size:***Good quality only white A4 size paper should be used for typing and duplication.

***Page Specification***

*Left margin:* 1.25 inch

*Right margin:* 1 inch

*Top margin:* 1 inch

*Bottom margin:* 1 inch

***Font size***

*Normal Body Text:* 12-point type size, Times New Roman

*Section Heading:* 18-point type size, Times New Roman

*Subsection Heading:* 16-point type size, Times New Roman

*Sub to Subsection Heading:* 14-point type size, Times New Roman

*Line Spacing:* 1.5 spacing

*Justification:* The whole document should be both sided fully justified

***Page Numbers***

All text pages as well as program source code listing should be numbered at the bottom right of the pages.

***Headers and Footers***

Headers and footers should be provided in the document, if required.

***Screen Shots and other images/ Photographs***

Minimum 10-point type size, captions should be in upper-and lower-case, bold, and

Centred. Images must be computer-designed and submitted as EMBEDDED images in your document (postscript, .pdf, or MS Word format). Please do not submit colour

Images.

***Arrangement of contents:***

The sequence in which the project report material should be arranged and bound should be as

follows:

1. Cover Page (Instructions mentioned as specimen-Appendix)

2. Acknowledgement

3. Certificate (Instructions mentioned as specimen-Appendix)

3. Abstract

4. Table of Contents (Instructions mentioned as specimen-Appendix)

APPENDIX 1( **COVER PAGE WILL BE AS PER FOLLOWING INSTRUCTIONS)**

TITLE OF PROJECT REPORT

<Font Size 18><1.5 line spacing>

A PROJECT REPORT ON

<Font Size 14>

Submitted by

<Font Size 14><Italic>

NAME OF THE CANDIDATE(S)

<Font Size 16>

in partial fulfillment for the award of the degree

of

<Font Size 14><1.5 line spacing><Italic>

NAME OF THE DEGREE

<Font Size 16>

NAME OF THE COLLEGE

<Font Size 14>

C.C.S. UNIVERSITY : MEERUT

<Font Size 16><1.5 line spacing>

MONTH & YEAR

<Font Size 14>

APPENDIX 2

(A typical specimen of Bonafide Certificate)

<Font Style Times New Roman>

**I.T.S- UG CAMPUS-MOHANNAGAR: GHAZIABAD**

<Font Style Times New Roman – size -18>

**CERTIFICATE**

<Font Style Times New Roman – size -16>

<Font Style Times New Roman – size -14>

Certified that this Project report “……….TITLE OF THE PROJECT……………..”

is the bonafide work of “…………..NAME OF THE CANDIDATE(S).…………” Roll No................................. batch................................... who carried out the project work under my supervision for the partial fulfilment of Bachelor’s of Computer Applications degree.

Date: Signature of the Guide

(Name of the Guide)

Academic Designation

**Table of Contents**

|  |  |  |
| --- | --- | --- |
| **Sno** | **Topics** | **Page no.** |
| 1. | **Introduction**  1.1 Overview & Problem Statement  1.2 Purpose  1.3 Scope  1.4 Tools Used  1.5 Methodology  1.6 Technology used | Page Numbers at each sub point |
| 2. | **Overall Description**  2.1 Product Perspective  2.2 Software Interface  2.3 Hardware Interface  2.4 Communication Interface  2.5 Constraints  2.7 Data Flow Diagrams | Page Numbers at each sub point |
| 3. | **Specific Diagrams**  3.1 Use-Case Diagram  3.2 Sequence Diagrams  3.3 Activity Diagrams | Page Numbers at each sub point |
| 4. | **Supporting Information**  4.1 Screen Shots | Page Numbers at each sub point |
| 5. | **Coding excerpts** | Page Numbers at each sub point |
| 6. | **Test Cases** |  |
| 7. | **Conclusion (if any)** | Page Numbers at each sub point |
| 8. | **Future Scope** |  |
| 9. | **Bibliography** | Page Numbers at each sub point |

**12.Final Submission:**

Spiral Bound Project Report (2 copy each student)

CD containing the softcopy of project report and static web Projects.

**13.Suggested Project Titles:**

1. Attendance Management System
2. Living Mantra
3. ADR Entry Management System
4. Event Management System
5. Online Examination System
6. Facility Booking Management System
7. Guest Details Management System
8. Lab Attendance Management System
9. Criminal Record Management System
10. Visitor Management System
11. Compliant Management System
12. Citizen Complaint Management System
13. Faculty Feedback System
14. Alumni Portal
15. E-Library
16. Online Food Supply Management System
17. Vendor Management System
18. E-Service
19. Online Music Store
20. Online Movie Store
21. Mentor-Mentee Interaction Management System