

1. CALENDAR FOR THE PROJECT WORK- I

Sr. No.	Topic	Date
1	Submission of Project Work- I Proposal to Project Work- I In –Charge, Department of CSE, ABVGIET	
2	Approval of Project Work- I Synopsis by, Project Work- I In-Charge, Department of CSE, ABVGIET	
3	Submission of the Project Work- I Report (One copy in bound form) to Project Work- I In-Charge, Department of CSE, ABVGIET	
4	Viva-Voice to be conducted	

2. PROFORMA FOR APPROVAL OF B.TECH VII SEM PROJECT WORK- I

Project Work- I Proposal No._____

(for office use only)

1. Name of the Student :_____
2. Enrolment No:_____
3. E-Mail:_____
4. Mob No:_____
5. Title of the Project Work- I:_____
6. Name of the Guide:_____

For Office Use Only:



Approved



Not Approved

Signature of the Guide

Date:_____

Suggestions for reforming the Project Work- I:

- 1.
- 2.
- 3.
- 4.
- 5.

3. GUIDELINES FOR VII SEM PROJECT WORK- I FORMULATION

Every Student is required to carry out project work under the supervision of a faculty member of the department. The internal supervisor shall monitor progress of the student continuously. A candidate is required to present the progress of the project work (at least twice) during the week at an appropriate time decided by the Department. There will be a final presentation of the project work at the end of the semester. It is recommended that project is to be chosen which should have some direct relevance in day-to-day activities of the candidates in his/her institution.

OBJECTIVES

- Application of knowledge and techniques learnt in theoretical classes for developing the software for real problems.
- Gives an insight into the working of the real organization/companies.
- Gaining deeper understanding in specific functional areas.
- Helps in exploring career opportunities in their areas of interest.

The course B.Tech Project Work- I is one that involves requirement analysis, feasibility analysis, Database design coding, testing, implementation and maintenance.

PROJECT WORK- I PROPOSAL (SYNOPSIS) STRUCTURE

Project Work- I proposal should be prepared in **consultation with the guide**. It should clearly state the objectives and environment of the proposed project to be undertaken. Ensure to include the following items while submitting your project synopsis. Project synopsis may contain 10-20 pages and sequence of contents strictly should be in the following order:

- 1.) Cover and Title Page
- 2.) Synopsis Approval Performa Duly filled and signed by the student
- 3.) Acknowledgement
- 4.) Index
- 5.) Introduction and objective of the project
- 6.) H/W and S/W Requirement
- 7.) Table and Structure, Number of Modules, Detail of Modules, Data Structure
- 8.) Types of Reports
- 9.) Scope of future application

4. PROJECT WORK- I PROPOSAL (SYNOPSIS) SUBMISSION AND APPROVAL

COMMUNICATION OF SYNOPSIS APPROVAL

A list of approved synopsis will be put on the notice board of the institute as per the dates mentioned in the activity schedule. In case of non-approval, the suggestions for reformulating the project will be communicated to the student. Students can resubmit the modified synopsis to Project In-Charge, Department of CSE, ABVG IET as per the specified time given in activity schedule.

PROJECT WORK- I REPORT STRUCTURE

The project should be prepared in consultation with the guide and may contain 100-120 pages (including coding). Project Report should strictly follow the points given below:

1. Cover and Title page
2. Inside cover page
3. Synopsis Approval Certificate/Company Certificate
4. Certificate of Originality
5. Acknowledgement
6. Abstract
7. Index
8. List of tables
9. List of Abbreviations
10. Introduction
11. S/W and H/w Requirement Specifications
12. System analysis
 - 12.1 Identification of Need
 - 12.2 Preliminary Investigation
13. Feasibility Study
 - 13.1 Technical Feasibility
 - 13.2 Economic Feasibility
 - 13.3 Operational Feasibility
14. Analysis (Feasibility Study, DFD 0 Level, 1- Level and 2- Level/ER Diagram, and Data Structure, Table Structure etc)
15. S/W Engineering. Paradigm applied
16. System Design
17. Screen shots
18. Coding (only main modules)
19. Validation Checks

20. Testing (Testing techniques and Testing strategies)
21. Implementation and Maintenance
22. System Security measures
23. Various types of Reports/ modules
24. Pert Chart/ Gantt Chart
25. Future Scope of the Project
26. Bibliography / References/Glossary

SUBMISSION OF A PROJECT WORK- I REPORT

Only one copy of the project report in bound form is to be submitted to the Project In-Charge, Department of CSE, ABVGIT. Another copy of the Project Report must be retained by the student which should be produced before the examiner at the time of the Viva-Voice.

PROJECT WORK- I EVALUATION

As per the H.P. Technical University norms, Project Report shall be evaluated by the external examiner at the end of the semester. However, there will be continuous monitoring of the Project Work- I progress report during the semester and distribution of marks shall be as follows:

Course Code	CS – 712	Credits: 2	L-0, T-0, P-4
Name of the Course	Project Work-I		
Lectures to be delivered	4 hrs per week		
Semester End Examination	Max. Time: 2 hrs	Max. Marks: 50	Min. Pass Marks :
Laboratory Continuous Assessment:	Viva voice and software	Max. Marks: 50	Min. Pass Marks:

Project Evaluation will consists of Three parts:

1. Evaluation of the project report along with source code in a CD in the required format by an external examiner 40% marks. Continuous evaluation by the internal examiner 30% marks
2. Viva-voce examination (20%marks).
3. Software evaluation with test runs (10%).

Viva-voice examination will be related to the projects executed by the candidate during the course of the semester.

NOTE:

If a student submits project report as per the activity schedule and fails to attend the viva, at the end of the semester, his/her project will remain incomplete and should contact Project In-Charge (CSE), department of CSE, ABVGJET.

5. IMPORTANT POINTS WHILE PREPARING THE PROJECT WORK- I REPORT

5.1 PAGE DIMENSION AND BINDING SPECIFICATIONS:

The student can directly start working on the project selected after due permission from Project Guide. The students are required to prepare in A4 size two hard copies of the project report hardly bound in **black** color wrapper.

5.2 PREPARATION FORMAT:

- **Cover Page and Title:** A specimen copy of the cover page and Title page of the project report are given in **Annexure 1**. The fonts and locations of various items on this page should be exactly as shown in **Annexure 1.A**
- **Inside Cover Page:** Same as cover page.
- **Acknowledgement:** This should not exceed one page. **Annexure 2**
- **Letter of Authentication:** To be submitted by students declaring that the Project Report is the original work of student and no reward has been attained for same project ever before. Students are advised not to **COPY** the project report from other students.
- **Bonafide certificate/ Certificate from Project Guide:** Certificate from the Project Guide certifying the project work under his/her guidance along with course, student name & project details complete in all respects, as per the format in **Annexure 3**.
- **Abstract:** Abstract should be a one-page synopsis of the project work, typed in double line spacing (about 300 words). Font styles Times New Roman and Font Size 12.
- **Table of Contents:** The table of contents should list all headings, sub headings after the table of contents page, as well as any titles preceding it. The title page and Bonafide Certificate will not find a place among the items listed in the Table of Contents. 1.5 spacing should be adopted for typing the matter under this head.
- **List of Tables:** The list should use exactly the same captions as they appear above the tables in the body of the report. 1.5 should be adopted for typing the matter under this head.

- **Tables and Figures:** The word Table means tabulated numerical data in the body of the project report. All other non-verbal materials used in the body of the project work and appendices such as charts, graphs, maps, photographs and diagrams should be designed as figures.
- **List of symbols, Abbreviations:** 1.5 spacing should be adopted for typing the matter under this head. Standard symbols, abbreviations etc should be used.
- **Chapters:** The chapters may be broadly divided into 3 or 4 parts with minimum total pages 50, (i) Introductory Chapter (ii) System analysis (iii) Feasibility Study (iv) Analysis etc.

The main text will be divided into several chapters and each chapter may be further divided into several divisions and sub-divisions.

- Each chapter should be given an appropriate title.
 - Tables and figures in a chapter should be placed in the immediate vicinity of the reference where they are cited.
 - Footnotes should be used sparingly. They should be typed single space and placed directly underneath in the very same page, which refers to the material they annotate.
- **List of References:** The listing of references should be typed 4 spaces below the heading “REFERENCES” in alphabetical order, in single spacing and left justified. The reference material should be listed in the alphabetical order of the surname of the first author. The name of the author/authors should be immediately followed by the year and other details.

5.3 TYPING INSTRUCTIONS:

The impression on the typed copies should be **black** in color.

One and a half (1.5) spacing should be used for typing the general text. The general text shall be typed in the font style ‘Times New Roman’ and Font Size 12. Use A4 (210 mm * 297 mm) bond un-ruled paper (80 gsm) for all copies submitted. Use one only side of the paper for all printed/typed matter.

- **Numbering:** Every page in the project report, except the project report TITLE PAGE, must be accounted for and numbered.

The page numbering, starting from the acknowledgement and till the beginning of the introductory chapter, should be printed in small Roman Numbers, i.e. i, ii, iii, iv.....

The page number of the first page of each chapter should not be printed (but must be accounted for). All page numbers from the second page of each chapter should be printed using Arabic numerals, i.e. 2, 3, 4, 5.....

All printed page numbers should be located at the bottom center of the page.

- **Chapters:** Use only Arabic numerals. Chapter numbering should be centered on the top of the page using large bold print. <size 15> <Times New Roman>
- **Sections:** Use only Arabic numerals with decimals. Section numbering should be left justified using bold print. Example: 1.1, 1.2, 1.3 etc.
- **Subsections:** Use only Arabic numerals with two decimals. Subsection numbering should be left justified using bold print. Example: 1.1.1, 1.1.2, 1.1.3 etc.
- **References:** Use only Arabic numerals. Serial numbering should be carried out based on alphabetical order of surname or last name of first author.

5.4 TEXT

- **Color:** Black
- **Font:**
 - ✓ **Regular Text:** Times New Roman 12 pts. And normal print.
 - ✓ **Chapter Heading:** Times New Roman 15 pts. , bold print and all capitals.
 - ✓ **Section Heading:** Times New Roman 12 pts. , bold print and all capitals.
 - ✓ **Subsection Headings:** Times New Roman 12 pts. , bold print and leading capitals. i.e. Only first letter in each word should be in capital.
 - ✓ **Special Text:** Italics/Superscript/Subscript/Special Symbols, etc as per necessity. Special text may include footnotes, endnotes, mathematical notations etc.
 - ✓ **References:** Same font as regular text. Serial number and all author's names to be in bold print. Journal names and book titles should be in italics.

5.5 PARAGRAPH SPACING

Use 6 pts. before & 6 pts. after paragraphs.

All paragraphs in the project report should be left justified completely, from the first line to the last line.

Use 1.5 spacing between regular text and quotations.

- Provide double spaces between:
 - ✓ Chapter title and first sentence of a chapter.

- Use single spacing
 - ✓ In footnotes and endnotes for text.
 - ✓ In explanatory notes for tables and figures.
 - ✓ In text corresponding to bullets, listings and quotations in the main body of project report.
- Use single space in references and double space between references.

5.6 JUSTIFICATION

The text should be fully justified.

5.7 MARGINS

The margins for the regular text are as follows:

LEFT:	1.50"
RIGHT:	1.00"
TOP:	1.00"
BOTTOM:	1.00"

5.8 TABLES

All tables should have sharp lines, drawn in black ink, to separate rows/columns as and when necessary.

Tables should follow immediately after they are referred to for the first line in the text. Splitting of paragraphs, for including tables on a page, should be avoided. Provide double spaces on the top and bottom of all tables to separate them from the regular text, wherever applicable.

The title of the table etc. should be placed on the top of the table.

The title should be centered with respect to the table. The title must be in the same font as the regular text and should be single spaced. The title format is given below:

Table<Blank><Chapter Number>.<Serial Number><Left Indent><Table Title>

5.9 FIGURES

All figures, drawings and graphs should be drawn black ink with sharp lines adequate contrast between different plots if more than one plot is present in the same graph.

The title of the figure etc. should be placed on the bottom of the figure.

Figures should follow immediately after they are referred to for the first time in the text. Splitting of paragraphs, for including tables on a page, should be avoided. Provide double spaces on the top and bottom of all figures to separate them from the regular text, wherever applicable. Figures should be centered with respect to the figure. The titles must be in the same font as the regular text and should be single spaced. The titles format is given below:

Fig.<Blank><Chapter Number>.<Serial Number><Left Indent><Figure Title>

The size of the project report can be approximately 150-200 pages, which include the following details. In along with it, if a student feels to add on any other topics as per the demand of the project or want to include the functionalities as per the SDLC or software engineering mode used, that can be done and included in the Project Report. The project report must include all the components as per the SDLC (Software Development Life Cycle).

It is highly recommended to follow the approaches of Software Engineering methodology. Design documents should be reviewed properly. **Testing should have been taken at various levels followed by acceptance test based on SRS** and user manual. Students are advised to implant and present the alternative methods and techniques reviewed during the Project phases.

Project should not be a closed copy or resemblance of commercial/freely available software from internet or market. Student should avoid concept introduction of various SE/SAD terminologies.

[Annexure 1]

PROJECT TITLE

A PROJECT REPORT

Submitted to



HIMACHAL PRADESH TECHNICAL UNIVERSITY, HAMIRPUR

by

NAME (UNIV.ROLL.NO.) OF THE STUDENT

*in partial fulfillment for the award of the degree
of*

BACHELOR OF TECHNOLOGY

in

COMPUTER SCIENCE & ENGINEERING



DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

**ATAL BIHARI VAJPAYEE GOVT. INSTITUTE OF
ENGINEERING & TECHNOLOGY**

PRAGATINAGAR, SHIMLA, HIMACHAL PRADESH.

DECEMEBER 2023

[Annexure 1.A]

PROJECT TITLE

<1.5 line spacing>

A PROJECT REPORT

<Italic>

Submitted to

<Italic>



HIMACHAL PRADESH TECHNICAL UNIVERSITY, HAMIRPUR

<Bold>

by

<Italic>

NAME (UNIV.ROLL NO.) OF THE STUDENT

<Bold>

in partial fulfillment for the award of the degree

of

<1.5 line spacing><Italic>

BACHELOR OF TECHNOLOGY

<Bold>

in

<Italic>

COMPUTER SCIENCE & ENGINEERING

<Bold>



DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

<Bold>

**ATAL BIHARI VAJPAYEE GOVT. INSTITUTE OF
ENGINEERING & TECHNOLOGY**

<Bold>

PRAGATINAGAR, SHIMLA, HIMACHAL PRADESH.

<Bold>

DECEMEBER 2023

<Bold>

[Annexure 2]

ACKNOWLEDGEMENT

I am very grateful to my Project Work- I guide Dr./Mr./Ms. _____ for giving his/her valuable time and constructive guidance in preparing the Synopsis/Project Work- I. It would not have been possible to complete this Synopsis/Project Work- I in short period of time without his/her kind encouragement and valuable guidance.

Date:

Signature

(Name and Roll No. of the Student)



[Annexure 3]
CERTIFICATE

I hereby certify that the work which is being presented in the B.Tech. Project Work- I Report entitled “**TITLE OF THE PROJECT**”, in partial fulfillment of the requirements for the award of the **Bachelor of Technology in Computer Science & Engineering** and submitted to the Department of Computer Science & Engineering of Atal Bihari Vajpayee Govt Institute of Engineering & Technology, Pragatinagar, Shimla, HP is an authentic record of my own work carried out during a period from August 2023 to November 2023 under the supervision of **Name & Designation of supervisor(s), CSE Department.**

Signature

(Name and Roll No. of the Student)

This is to certify that the above statement made by the candidate is correct to the best of my knowledge.

Signature of Supervisor

Date:

(Name and Designation of Supervisor)

Head

Computer Science & Engineering Department

Atal Bihari Vajpayee Govt Institute of Engineering & Technology, Pragatinagar