DEPARTMENT OF ELECTRONICS & TELECOMMUNICATION

Project Work Book

Year 2022- 2023

Group/Project ID   : | | | | |

Team Members: 1. _____

2. _____

3. _____

4. _____

Project Title   :   _____

Project Guide   :   _____

Area of Project :   _____

Matoshri Education Society's
Matoshri College of Engineering and Research Centre, Nashik
Eklahareshivar, Near Odhagaon, Opp Nashik-Aurangabad Highway, Nashik, Maharashtra 422105

Institute Vision

"To Establish Omnipotent Learning Centre Meeting the Standards to Evolve as a Lighthouse for the Society"

Institute Mission

- ❖ Setting up state-of-the-art infrastructure
- ❖ Instilling strong ethical practices and values
- ❖ Empowering through quality technical education
- ❖ Tuning the faculty to modern technology and establishing strong liaison with industry
- ❖ Developing the institute as prominent centre for research &development
- ❖ Establish the institute to serve as a lighthouse for the society

Department Vision:

"To provide quality technical education for developing globally competent and ethically strong Electronics and Telecommunication engineers with power of innovation contributing to the technology for the betterment of society and indigenous development"

Department Mission:

M1. To impart the quality education by keeping pace with rapidly changing technologies for developing globally competent Electronics &Telecommunication engineers.

M2. To provide state-of- art facilities and opportunities to create, interpret, apply and disseminate knowledge.

M3. To motivate the students and faculty for imbibing morality and values through ethical practices.

M4. To create technical manpower of global standards in Electronics and Telecommunication engineering with analytical capabilities of accepting new challenges through practical exposure.

M5. To emphasize and inculcate Research attitude among students and faculty in tandem with modern technology.

M6. To create effective interface with industries and communities.

M7. To encourage solutions for indigenous development.

Rules and regulations

1. All students should enter the correct information in the work book.

2. Get all entries verified by respective project guide. No changes are to be made without project guides permission.

3. Students should report to their respective guides as per time table and log will be maintained as given in the work book.

4. Follow all deadlines and submit all documents as per prescribed formats.

5. The work book should be produced at the time of all discussions, presentations and examinations.

6. This work book must be submitted to project coordinator/guide.

CONTENTS

I. About Project Work

The word *project* comes from the Latin word *projectum* from the Latin verb *proicere*, "to throw something forwards" which in turn comes from *pro-*, which denotes something that precedes the action of the next part of the word in time (paralleling the Greek πρό) and *iacere*, "to throw". The word "project" thus actually originally meant "something that comes before anything else happens".

                                                                                    - http://en.wikipedia.org/

The Project is conceiving the idea and implementing it systematically by using the knowledge derived in the course of education mainly to innovate or facilitate.

The aim of project work is to allow the students to study the feasibility of the project, planning project, studying existing systems, tools available to implement the project and state of art software testing procedures and technology with use of case tools.

The group of students will undertake one project over the academic year. The project work may involve the designing a system/subsystem or upgrading an existing system. The design is to be implemented into a working model (software or hardware or both) with necessary software interface as an executable package.

a. Objectives:

The objectives of the project are that you acquiring the knowledge, understanding and skills to:

- To Organize, sustain and report on a substantial piece of individual & team work over a period of several months,
- To Apply the knowledge, you have gained or taught modules to a realistic problem,
- To Evaluate alternative approaches, and justify the use of selected tools and methods,
- To Reflect upon the experience gained and lessons learned,
- To Consider relevant social, ethical and legal issues,
- To Find information for yourself from appropriate sources such as manuals, books, research journals and from other sources, and
- To Work in TEAM and learn professionalism.

b. How to choose a Project:

Project is one of the significant contributory team works that has to be completed with distinct impression. It is really very difficult to explore the domain of interest / research/ thirst area/ society need. In Toto one can not figuratively define best project but still there are certain parameters on which we can gauge the quality of project work done. It will be better suited to go for well-defined and relatively safe projects that provide scope for demonstrating proficiency with a low risk of failure.

General guidelines:

- Project work should involve a combination of sound background research (thorough study/ follow a line of investigation), a methodical implementation.
- Identifying domain of work: Identify feasibility and usability of work.

- Instead of fancied and driven behind the gaudy and ostentatious ideas, the utility has to be emphasized. It is also acceptable to identify the discrepancies/ flaws in the existence system and work accordingly to rectify or improve.
- It is irrational to select the IDE and the software/ tools before the idea is not yet finalized.
- Understanding the way project will be materialized and progressed.

c. **Project Evaluation Guidelines**

Project work is to be evaluated by both Internal and External examiners jointly, unanimously agreeing the following points among many others.

- Problem Title and scope of the project
- Literature Survey done.
- Software Engineering Approach used.
- Implementation- Design, platform, coding, documentation etc
- Optimization considerations(Memory, time, Resources, Costing)
- Testing
- Project Presentation and Demonstration(User Interface, ease of use, usability0)
- Presentation of work in the form of Project Report
- Understanding, individual capacity & involvement in the project
- Team Work
- Participation in various contests
- Providing manuals(quick reference, system manual, Installation guide etc.) for the user

II. University Syllabus (Sem-1)

Savitribai Phule Pune University
Fourth Year of E & Tc Engineering (2019 Course)
404188: Project Phase – I

Teaching Scheme:	Credit	Examination Scheme:
Practical: 02 Hrs. / Week	01	Term Work: 50 Marks

Course Objectives:

- To understand the basic concepts & broad principles of projects.
- To understand the value of achieving perfection in project implementation & completion.
- To apply the theoretical concepts to solve real life problems with teamwork and Multidisciplinary approach.
- To demonstrate professionalism with ethics; present effective communication skills and relate

  engineering issues to broader societal context.

Course Outcomes:

CO1: Demonstrate a sound technical knowledge in field of E&TC in the form of project.

CO2: Undertake real life problem identification, formulation and solution.

CO3: Design engineering solutions to complex problems utilizing a systematic approach.

CO4: Demonstrate the knowledge, effective communication skills and attitudes as professional engineer.

Project phase 1 is an integral part of the project work. The project work shall be based on the knowledge acquired by the student during the graduation and preferably it should meet and contribute towards the needs of the society. The project aims to provide an opportunity of designing and building complete system or subsystems in the field of Electronics and communication where the student likes to acquire specialized skills. The student shall prepare the duly certified Fourth report of project work in standard format for satisfactory completion of the work by the concerned guide and head of the Department/Institute.

Guidelines:

1. Group Size: The student shall carry the project work individually or by a group of students. Optimum group size shall be 3 students. However, if project complexity demands a maximum group size of 4 students, the project committee should be convinced about such complexity and scope of the work. Projects selected should meet and contribute towards the needs of the society.

2. Selection and approval of topic: Topic should be related to real life application in the field of Electronics and Telecommunication engineering.

3. The topic may be based on : Investigation of the latest development in a specific field of Electronics or Communication / The investigation of practical problem in manufacture and / or testing of electronics or communication equipment/ Software based projects related to VHDL, Communication, Instrumentation, Signal Processing agriculture Engineering etc. with the justification for techniques used / any topic in the field of E&TC may be allowed.

4. Interdisciplinary projects should be encouraged. The examination of Interdisciplinary projects shall be conducted independently in respective departments.

5. The term work assessment of project phase 1 shall be based on Innovative Idea of selected project, literature survey, Depth of understanding, Applications, Individual contributions, presentation, project report, timely completion of work.

6. The department should prepare project planner and should follow accordingly.

7. A log book of work carried out during the semester should be maintained with weekly review remarks by the guide and committee.

8. A certified copy of report preferably using LATEX is required to be presented to external examiner at the time of Fourth examination.

9. The project report must undergo by plagiarism check and the similarity index must be less than 15%. The plagiarism report should be included in the project report.

III. University Syllabus (Sem-2)

<table>
<tr><td colspan="3" align="center">**Savitribai Phule Pune University**
Fourth Year of E & Tc Engineering (2019
Course)404197: Project Phase – II</td></tr>
<tr><td>**Teaching Scheme:**</td><td>**Credit**</td><td>**Examination Scheme:**</td></tr>
<tr><td>**Practical: 10 Hrs. / Week**</td><td>**05**</td><td>**Term Work: 100 Marks**
Oral: 50 Marks</td></tr>
<tr><td colspan="3">Project phase 2 is extension of Project phase 1 carried out in seventh semester. The student shall prepare the duly certified Fourth report of project work in standard format preferably in LATEX for satisfactory completion of the work by the concerned guide and head of the Department/Institute.</td></tr>
<tr><td colspan="3" align="center">**GUIDELINES**</td></tr>
<tr><td>1.</td><td colspan="2">The project TW/OR assessment shall be based on Live Project Demonstration and presentation by the students. The assessment parameters shall be Innovative Idea of selected project, literature survey, Depth of understanding, Applications, Individual contributions, presentations, project report, timely completion of work (Project review presentations), participation in project competition, publication of research work in journal/conference, publication in the form of patent and copyright etc. The college can prepare the rubrics based on these parameters</td></tr>
<tr><td>2.</td><td colspan="2">Certified hard bound project report to be submitted by the students in prescribed format.</td></tr>
<tr><td>3.</td><td colspan="2">Students must preferably publish at least one technical paper on project work in the conference or peer reviewed Journals or publish patent or copyright or should participate into one of the project competition at university/State/National/International level.</td></tr>
<tr><td>4.</td><td colspan="2">A log book of work carried out during the semester should be maintained with weekly reviewremarks by the guide and committee.</td></tr>
<tr><td>5.</td><td colspan="2">A certified copy of report preferably using LATEX is required to be presented to externalexaminer at the time of Fourth examination.</td></tr>
<tr><td>6.</td><td colspan="2">The project report must undergo by plagiarism check and the similarity index must be less than 10%. The plagiarism report should be included in the project report.</td></tr>
</table>

<u>UNDERTAKING BY STUDENT</u>

We, the students of B.E. Electronics & Telecommunication hereby assure that we will follow all the rules and regulations related to project activity for the academic year 2022-23.

The Project entitled-

_____

_____

will be fully designed/ developed by us and every part of the *project will be original work and will not be copied/ purchased from any source*.

	Name of Student	**Sign**
1.	_____	_____
2.	_____	_____
3.	_____	_____
4.	_____	_____

V. Instructions Regarding project proposal and Finalization

1. The project work may involve the designing a system/subsystem or upgrading an existing system. The design is to be implemented into a working model (software or hardware or both) with necessary software interface as an executable package (installable CD or hardware model) along with

    - User & system manual and quick reference guide.
    - A project report including all necessary documents such as Requirement Analysis, Design specifications, SRS, Risk Plan, Project Plan, Design Modeling, test plan, results etc.

2. The project will be undertaken preferably by a group of at least 3 students who will jointly work and implement the project. The group will select a project with approval of Project coordinator, team of teachers & the guide.

3. The idea for your project may be a proposal from a member of faculty or some industry expert or your own, or perhaps a combination of the you and faculty.

4. Every group may come up with sponsored project. Sponsorship may not be in terms of money or resources. It might be in terms of just suggesting problem definition and associated guidance.

5. Students may collect the letter required for applying the Institute/Industries for the project sponsorship from project coordinator

6. List of suggested projects, prominent domains and respective staff, whom you may contact for guidance, is displayed on the notice board. Students may contact respective staff along with synopsis for the guidance. Students may contact respective staff for projects suggested by them in the respective areas.

7. Meet Project Coordinator for project title registration. <u>For project title registration, every group must submit synopsis approved by all the staff in the respective area</u>.

8. Synopsis must include project title, group members, sponsor details (if any), detailed problem definition, area, abstract, details of existing similar systems if any, scope of the project and software-hardware requirements. Sponsorship details include name of sponsoring authority, address, name of guide, sponsorship terms & conditions and respective document certifying the same from authorities.

9. A Panel formed by the department will approve the project group and project work title only after presentation in the first week of August 2022. Presentation

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will cover details mentioned in the synopsis as above. After finalization of the project, the guide will be assigned.

VI. Project Work Schedule

Semester I

Sr. No.	Activity Scheduled	Date/Week
1.	Registration of Project groups	25th July
2.	Submission of Project Synopsis	1st August
3.	Project presentations	Second week of Aug
4.	Finalization of projects & allotment of guide	Third week of Aug
5.	Submission of final synopsis	Last week of Aug
6.	First presentation about progress of project work	First week of Sept
7.	Second presentation about progress of project work	Second week of Sept
8.	Third presentation about progress of project work	Third week of Sept
9	Fourth presentation about progress of project work	Last week of Sept
10	Submission of partial project report	1st Week Oct
11	Project work Examination	As per SPPU Notification

Semester II

Sr. No.	Activity Scheduled	Date
1.	Forth presentation about progress of project work	Last week of Jan
2.	Fifth presentation about progress of project work	Last week of Feb
3.	Sixth presentation about progress of project work	Last week of March
4.	Submission of final project repot and Project Work book to the project Coordinator	First week of April
5.	Project Examination	As per SPPU Notification

VII. Format of Final Synopsis

After completing the preliminary background work of the project, the student should submit the final synopsis in the format given below.

Title Page

- Project Group ID
- Title of the project
- Category / area such as databases, image processing, network based, web technology based etc.
- Team Members (List with Signatures)
- Sponsorer details if any(with Signature of external guide)
- Internal Guide(with signature of approval)

Inner Pages:

- Problem Definition
- List of modules/ functionalities
- Current market survey: This should include list of similar products available, if any and also their pros and cons
- Scope o the project
- Literature survey (List of references only): This should include the list of books, magazines, research papers, web links etc referred by the students
- Software and hardware requirements of the project
- Probable date of completion

VIII. Format of Partial Project Report (Semester I)

A preliminary report of project work (Partial Project Report) is to be prepared as per the guideline given below and is to be submitted at the end of semester I.

Title Page

First page containing Name, Topic Name, Guide Name, Year, Branch, and College Name etc. (see format displayed herewith)

Certificate (will be provided by college)

Dissertation approval sheet (see format displayed herewith) Also attach certificate certifying the project work done approved by the sponsoring authority, if any.

Acknowledgements (if any)

Thanking any person / staff member / friend if to be done so.

Abstract

A minimum of 100 words briefing the topic in consideration.

Keywords

A minimum of 5 and maximum of 10

Introduction

Introduction should be minimum of 200 words, briefing of the details to follow. It should cover details of project work, objectives, scope of the project and organization of report.

Literature Survey

The purpose of the literature survey is to identify information relevant to project work and the potential and known impacts of it within the project area. This section should include a comprehensive report of current market survey done with respect to problem. Include study of similar systems available, if any along with their pros and cons. Identify those areas where there is an absence or scarcity.

Design Details (Phase I to IV)

Phase I: Requirements Analysis
The Group is to submit a detailed write – up indication the requirements that the project demands, viz.

- Actual detailed problem definition.
- The definition is to include all that is to be done and is to be put up in the final software and / or
- Hardware (product) that is to be generated from the years work (User's point of view).

Requirement may not be final and provision should be available to add features dynamically without affecting the actual flow and design of the document.

Modified Requirements (After doing feasibility study) are to be prepared under all the 3 categories listed above from the developer's point of view. The requirement listed herein should be feasible technically from the software / Hardware point of view. The new list is also be categorized in the 3 categories listed above.

Follow the standard format of SRS.

Phase II: Analysis Phase
The group (based on Phase I) is to suggest the paradigm followed by them in the project. The paradigm should be justifiable from Phase I. The various stages and work to be completed under them is to be indicted in detail.

Phase III: Design Phase

ERDs (Optional, decide in consultation with guide)

- The group is to draw the ERD (Entity Relationship Diagram) for the project. (This should be justifiable with regard to Phase I & II)
- The ERD after getting evaluated (by dry running) is to be analyzed for incompleteness from any point of view.
- The ERD thus validated should be made fair in a presentable fashion.
- This ERD is to be included in the Report.

IF

The project group is to follow an "Object Oriented" Approach for their Project.

THEN

- The group is to draw all (all the nine) UML (Unified Modeling Language) diagrams for the project.
- These diagrams are to be refined in every aspect for this report(as per requirements finalized in phase I)
- Proper notations are to be used in all the figures drawn.
- Proper Color-coding if required is to be used.
- Extensions to diagrams / customizations may be done and represented (if the project demands it)

ELSE (groups following Structured Approach)

- The group is to draw the DFD-s (Data Flow Diagrams) for the Project. (These should be justifiable with respect to Phase I, II and the ERD)
- DFD Level 0, Level 1, Level 2 should be drawn in an evolutionary fashion (No entries to appear in Level 2 unless they are in Level 1, which in turn are in Level 0)
- The DFD – s are to be validated and made final in a presentable fashion.
- Proper Color- coding is expected
- Extensions to DFD-s may be represented (if the project demands it)

Phase – IV: Planning Phase

- The group is to finalize the Front End/ Back End required for the project as per the demands of the project(Software and / or hardware)
- The Front End/ Back End should be justifiable depending on the complexity of the project.
- The structure of the database to be finalized depending on the complexity of the project.
- Any Normalization required on the database is done so as to ensure error free for the future phase.
- Coding Language / Methodology should be finalized/
- Time requirement to be finalized and indicated
- Actual project plan including major milestones should be decide and finalized
- Rough estimates of lines of code / functions / routines to be made.
- Rough estimates of lines of code / Objects / Classes to be made (for Groups following OO Paradigm)
- Software Reuse /Re – Engineering possibilities are to be expected and indicated
- Software and Hardware requirement.
- Probable date of completion.
- Scope of the project.

Phase – V: Prototyping
- A prototype is expected which basically includes all the MAJOR features in the project.
- The GUI/ Front end is to be prepared.
- The structure of the database / back end (if any) to be indicated.
- The prototype is basically to give a feel of the actual software and / or hardware (Product) that is expected
  Major routines / Functions are expected.

Conclusions

Include conclusions from the work done with a minimum of 50 words

References

List out Books, Magazines, Thesis, Journals, Web links etc referred in IEEE format

Format of SRS

Software requirement Specification is a detailed write-up indicating the requirements that the project demands, viz. it contains actual detailed problem definition. The definition is to include all that is to be done and is to be put up in the final software and / or . Hardware (product) that is to be generated form the years work (User's point of view). The entries under this section are to be categorized under the categories,

1. Necessary functions,
2. Desirable functions, and others

Requirement may not be final and provision should be available to add features dynamically without affecting the actual flow and design of the document. Modified requirements (after doing feasibility study) are to be prepared under all the 3 categories listed above form the developer's point of view. The requirements listed herein should be feasible technically form the software/ Hardware point of view.

It should include following important requirements.

1. Detailed Problem Definition

2. External Interface Requirements
- User interfaces
- Hardware Interfaces
- Software Interfaces
- Communication Interfaces

3. System Features
- Feature 1
- Feature 2 etc.

4. Other Non- functional requirements.
- Performance requirements
- Safety requirements
- Software Quality attributes

IX. Format of Final Project Report (Semester II)

A report of project work is to be prepared as per the guidelines given below and is to be submitted at the end of semester II.

- **FIRST PAGE AS PER STANDARD COLLEGE REPORTS**
  First page containing Name, Topic Name, Guide Name, Year, Branch, and College Name etc. (see format displayed herewith)

- **Certificate** (will be provided by college)
  Dissertation approval sheet (see format displayed herewith) Also attach certificate certifying the project work done approved by the sponsoring authority, if any.

- **Abstract**
  A minimum of 100 words briefing the topic in consideration.

- **Keywords**
  A minimum of 5 and maximum of 10

- **Index**
  Details of various Topics, Sub-Topics, with Page No. Figure Index, giving details of page number, figure number and figure caption Table Index, giving details of page number, table number and table caption (If any) Index of Pseudo-code / Sample code (If any)

I) Introduction

Minimum of 200 words, giving some briefing of the details to follow.

- Detailed problem definition

- Justification of problem

- Need for the new system

- Advances/additions/updating the previous system

- Presently available systems for the same

- Purpose of your system

- Organization of the report

This section should be relevant to the Literature Survey done and reported in the partial project report. The purpose of the literature survey is to identify information relevant to project work and the potential and known impacts of it within the project area. This section should include a comprehensive report of current market survey done with respect to problem. Include study of similar systems available, if any along with their pros and cons. identify those areas where there is an absence or scarcity.

II) Analysis

- Project plan
- Requirement analysis
- Team structure

The Group is to submit a detailed write-up indicating the requirements that the project demands, viz.

Actual detailed problem definition

The definition is to include all that is to be done and is to be put up in the final software and / or Hardware (product) that is to be generated from the years work (User's point of view). The entries under this section are to be categorized under the categories,

---

1. Necessary functions,
2. Desirable functions,
3. Others

Requirement may not be final and provision should be available to add features dynamically without affecting the actual flow and design of the document. Modified Requirements (after doing feasibility study) are to be prepared under all the 3 categories listed above from the developer's point of view. The requirements listed herein should be feasible technically from the Software / Hardware point of view. The new list is also be categorized in the 3 categories listed above. (Follow the IEEE format of SRS)

The group is to suggest the Paradigm followed by them in the Project. The Paradigm should be justifiable from Phase I. The various stages and work to be completed under them is to be indicted in detail.

III) Design
  · Software Requirement Specification(SRS) format is as given below.
  · Risk assessment
  · Brief discussion on Project plan submitted in semester I including major
milestones
  and the work done as per it.

IV) Modelling
  · UML diagrams (all 9)
  · ERD & Normalization (NF) for database (if any)

ERDs (Optional, decide in consultation with guide)
  · The group is to draw the ERD (Entity Relationship Diagram) for the Project. (This should be justifiable with regard to Phase I & II)
  · The ERD after getting evaluated (by dry running) is to be analyzed for incompleteness   from any point of view
  · The ERD thus validated should be made fair in a presentable fashion
  · This ERD is to be included in the Report

IF
The project group is to follow an "Object Oriented "Approach for their Project.
THEN
  · The group is to draw all (all the nine) UML (Unified Modeling Language) diagrams for the
  project
  · These diagrams are to be refined in every aspect for this report (as per requirements
  finalized in phase I)
  · Proper notations are to be used in all the figures drawn
  · Proper Color-coding if required is to be used
  · Extensions to diagrams / customizations may be done and represented (if the project demands it)
ELSE (groups following Structured Approach)
  · The group is to draw the DFD-s (Data Flow Diagrams) for the Project. (These should be justifiable with respect to Phase I, II and the ERD)
  · DFD Level 0, Level 1, Level 2 should be drawn in an evolutionary fashion (No entries to   appear in Level 2 unless they are in Level 1, which in turn are in Level 0)
  · The DFD-s are to be validated and made final in a presentable fashion.
  · Proper notations are to be used in all the figures drawn
  · Proper Color-coding is expected
  · Extensions to DFD-s may be represented (if the project demands it)

V) Coding

. Algorithms/ Flowcharts
· Software's used
· Hardware specification
· Programming language
· Platform
· Components
· Tools
. Coding Style Format

V) Result Sets

VI) Testing

· Format technical reviews
· Test plan
· Test cases
· Test results
(Unit, integration, regression, system,a,b)

VII) Configuration Management Plan

VIII) Software Quality Assurance Plan

* Costing (Time, Money and Resources)
(Do not include costing in the project report; submit to the guide)

Conclusion

Your conclusions from the topic dealt with a minimum of 50 words.

References

List out Books, Magazines, Thesis, Journals, Web links etc referred in IEEE format

Glossary

In Keyword Alphabetical Order Ascending along with Page numbers

Formatting Guidelines for Project Report

1. **Report Size:** Limit your Project report to preferably 25- 40 pages for partial project report

    Limit your Project report to preferably 80- 100 pages for final project report

2. **Footer:** The footer "DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION ENGINEERING, MCEREC NAS HIK" should be included. It should be TIMES NEW ROMAN 10 pt and centrally justified.

3. **Header:** Project Title centered and page nos. on right should be included. **Start numbering from introduction.**

4. **Paper Size:** A4 Size, bond paper.

5. **Margins: Mirrored.**

    3. **Top** : 1 inch
    4. **Bottom** : 1 inch
    5. **Inside** :1.25 inch
    6. **Outside** :1 inch

6. **Line Spacing:** 1. 5 lines

7. **Title of Chapter:**

    i. **Font** : Arial (Bold face, Capital,)
    ii. **Size** :16 pt, Alignment: centered

8. **All Topics heading:**

    i. First order Heading: (for example -**1. Introduction**)
        1. Font : Times New Roman(Bold Face)
        2. Size : 14 pt

    ii. Second order Heading: (for example -**1.1 Evolution**)
        1. Font : Times New Roman(Bold Face)
        2. Size : 12 pt

    iii. Third order Heading: for example -1.1.1 Image Processing
        1. Font : Times New Roman(Normal Face)
        2. Size : 12 pt

9. **Text:**

    1. **Font** : Times New Roman (Bold Face)
    2. **Size** : 12 pt

10. Figures and Tables:

      i.   **Caption:**(for figures below the figure and for tables above the table)

      ii.   **Font**: Garamond(Bold)

      iii.   **Size**:11 pt

      iv.   **Alignment**: Center

11. References :

. Book

Author name(s), Book Title, Publisher, Copyright Year, page nos. if any.

. Journal/ Magazine/ Periodical

Author name(s), paper name, Journal/ Magazine/ Periodical name, issue no., page nos.

.Web Resources

Complete URL including File name.

Format for Cover page/ Title page

Project Report
On

Title of Project

by

Name of Student 1 (Exam NO:)
Name of Student 2 (Exam NO:)

Under the guidance of

Name of the Guide

Department of Electronics & Telecommunication Engineering
Matoshri College of Engineering and Research Center, Nashik – Pin: 422105

SAVITRIBAI PHULE PUNE UNIVERSITY
2022-2023

XI. Project Outline

Project title:

Detailed problem definition:

Abstract:

XI. Project Outline

<u>Introduction: (details along with System Working/ Flow Diagram)</u>

<u>Objectives/Core Functionalities:</u>

<u>H/W and S/W Requirements with specification:</u>

<u>Sponsorship Details, if any:</u>

   Name of Sponsorer:

   Designation:

   Company/ Institute:

   Email: **Mobile:**

XII. Log Record

Time Recording Log / Phase Semester I

Project	Start Date:	1. Requirement Analysis	3. Project Planning	6. Design Review
	Due Date :		4. Risk Analysis	7. Modeling
		2. Design & Estimation	5. Detailed Design	8. Modeling Reviews

Sr. No.	Date	Phase	Interrupts / Progress	Comments & Grade (To Be Filled by Guide)

Sr. No.	Date	Phase	Interrupts / Progress	Comments & Grade (To Be Filled by Guide)

Time Recording Log / Phase Semester II

Project	Start Date:	1. Modular Implementation	4. Integration Testing	7. Software Costing
	Due Date :	2. Modular Testing	5. Final Verification and Testing	8. User/ Operational manuals if any
		3. Integration of modules	6. Deployment	9. Final project report

Sr. No.	Date	Phase	Interrupts / Progress	Comments & Grade (To Be Filled by Guide)

Sr. No.	Date	Phase	Interrupts / Progress	Comments & Grade (To Be Filled by Guide)

XIII. Internal Evaluation Sheet (Semester I)

Sr. No.	Name(s) of the student in the project group	Literature Survey (05)	Modeling & Designing (15)	Planning & Prototyping (05)	Presentation & Question - Answer (15)	Partial Project Report (10)	Total (50)
1.							
2.							
3.							
4.							

Name and Signature of Evaluation Committee:

1. Prof.

2. Prof.

3. Prof.

Signature of Guide   Prof.D.D.Dighe

[Name of Guide]   Head

XIV. Internal Evaluation Sheet (Semester II)

Sr. No.	Name(s) of the student in the project group	Design & Planning (10)	Modular Implementation (40)	Integration of Modules (10)	Software Testing (10)	Understanding, Individual Involvement / Contribution in the project (10)	Team Work (10)	Demonstration cum Presentation (10)	Total (100)
1.									
2.									
3.									
4.									

Name and Signature of Evaluation Committee:

1. Prof.

2. Prof.

3. Prof.

Signature of Guide   Prof.D.D.Dighe

[Name of Guide]   Head

Report Documentation

Report Code: ETC-BE-Project 2022 -2023	**Report Number:**

Report Title:

Address (Details):
Matoshri College of Engineering and Research Centre, Nashik
Pin – 422 105, M.S. INDIA.

Author 1:	**Author 2:**	**Author 3:**	**Author 4:**
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Cell No:	**Cell No:**	**Cell No:**	**Cell No:**

Year: 2022 -2023

Branch: Electronics & Telecommunication Engineering

***Key Words*:**

Type of Report: FINAL	*Report Checked By:*	Report Checked Date:	**Guides Complete Name:**	Total Copies **N+2**

Abstract:

X. Group Details

Matoshri College of Engineering and Research Center, Nashik
Department of Electronics & Telecommunication Engineering

Title of Project :
Project ID :
Name of Guide :
List of Group Members :

Sr. No	Name of Student	Roll No.	Exam No.	Mobile No.	Email -ID
1.					
2.					
3.					
4.					