

Ajeenkya DY Patil School of Engineering, Lohegaon, Pune.



# Final Year Project

## A Project Diary

Workbook No: WB/ 2019 /2.2.1



## *Vision*

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Empowerment through quality technical education

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## *Mission*

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M1: To achieve excellence in teaching, learning and research

M2: To impart skill based education to meet the needs of industry and Society

M3: To excel as a center of excellence in technical education

M4: To inculcate social & ethical values among the students

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## *Quality Policy*

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We strive to impart the quality technical education through academic excellence and provide best of facilities to satisfy the need & expectations of the students & stakeholders.

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"Empowerment through quality technical education"

**AJEENKYA**  
**DY Patil School of Engineering**

Approved by AICTE, Recognized by Govt. of Maharashtra, Affiliated to Savitribai Phule Pune University



**nir** NATIONAL  
INSTITUTIONAL  
RANKING  
FRAMEWORK  
2022 Rank Band (251-300)



**ISO**

R  
World Institutional  
RANKING  
United No. 1 in Maharashtra



# Project Diary

**Group No. -**

**Group Name -**

**Department of ..... Engineering**

**Academic Year:**



# Students Information

**Title of the Project:-**

	<b>Name of the student</b>	<b>Mobile No.</b>	<b>Email Id</b>
1			
2			
3			
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**Name of the Project Guide and Sign:-**

**If Sponsored Project -**

Industry Guide Name -

Designation-

Company Name -

Mobile No -

Email ID -.....

## Guidelines for Students

1. Allocation of Faculty Project Topics: Faculty project topics will be allotted to students on a first-come, first-served basis. It is recommended to promptly express your interest in a specific project topic.
2. Guide Selection: While students cannot select a specific guide, their preferences will be considered if the desired guide is available. The allocation of guides will be based on availability and feasibility.
3. Work Assignment and Confirmation: Students should clearly document the specific tasks they will undertake for the project and get them signed by the guide. This ensures clarity regarding individual responsibilities and commitments.
4. Weekly Meetings with Project Guide: Attendance at weekly meetings with the project guide is mandatory. Students should ensure their active participation, update progress, seek guidance, and complete assigned tasks within the given timeframes.
5. Mandatory Presentation Attendance: Students must attend all project presentations. These presentations carry marks and provide an opportunity to showcase progress, receive feedback, and demonstrate project achievements.
6. Synopsis Submission: Each group must submit a one-page synopsis during the Topic Approval Presentation.
7. Project Work Evaluation: If the project work is found unsatisfactory, the student's term may be carried over to the next semester. It is important to meet the project's requirements and deliver high-quality work.
8. Industry Projects: For groups engaged in industry projects, the guide will visit the industry site. Students should include photo proof of this visit at the back of their final project report.
9. Project Report Guidelines: Students should carefully read and follow the guidelines provided for preparing the project report. Adherence to formatting, structure, and content requirements is crucial.
10. Final Report and CD Submission: Along with the printed copies of the final report, each group must submit the complete project work in CD format during the final examination.
11. Project Setup Submission: After the final project oral, the project setup should be submitted to the college as per the specified instructions.
12. Conduct and Discipline: Students should demonstrate utmost care and discipline throughout the project activity. Professional behavior, respect for deadlines, and adherence to ethical practices are essential.



## University Marks Distribution

Semester	Subject	Examination marking Scheme		Total
		TW	OR	
I	Project Stage –I	50	50	100
II	Project Stage – II	100	50	150
<b>Total</b>		<b>150</b>	<b>100</b>	<b>250</b>

Space for Rough Work

## Marks Distribution

Sr	Dates	Phase	Task	Marks
1		Phase- I	Literature Survey & Problem identification and its relevance to solving the real world problems	10
2			Abstract and a rough sketch submission	5
3			Project diary and discussion with project guide	10
4			Attitude of the student	5
5			Completion of the work (40%)	10
6			Presentation-1 and quality of the Seminar report	10
1		Phase- II	Presentation -2	10
2			Work Progress (65% complete)	5
3			Presentation -3	5
4			Work Progress (80% complete)	5
5			Presentation -4	5
6			Work Progress (100% complete)	10
7			Participation in Project Exhibition	15
8			Paper Publication	10
9			Filling a Patent/Copyright	15
10			Working of the model as per the specification	10
11		Final report submission	10	

**Note – OR Marks are in the hands of SPPU External Examiner**



## Idea Generation Form At the Beginning

Sr	Problem Identified	Possible Solution	Date
1			
2			
3			
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7			

**Signature of Guide**

### Idea Evaluation

When evaluating ideas, it's important to consider various factors to determine their feasibility, potential impact, and alignment with your goals. Here is a list of criteria you can use to evaluate ideas:

1. **Relevance:** How well does the idea address the problem or challenge at hand? Is it relevant to your objectives or the needs of your target audience?
2. **Feasibility:** Assess the practicality and achievability of the idea. Consider the available resources, skills, technology, and time required to implement it.
3. **Innovation:** Does the idea introduce a new approach or perspective? Does it offer a unique solution that differentiates it from existing alternatives?
4. **Scalability:** Can the idea be scaled up or expanded to accommodate growth or increased demand? Consider if it has the potential to be replicated or applied in different contexts.
5. **Impact:** Evaluate the potential positive outcomes and benefits of the idea. Will it solve a problem, create value, or improve existing processes?
6. **Cost-effectiveness:** Analyze the costs associated with implementing the idea compared to the potential benefits or returns. Consider both monetary and non-monetary factors.
7. **Risk assessment:** Identify the potential risks and challenges associated with the idea. Assess the probability and potential impact of these risks on the success of the idea.
8. **Sustainability:** Consider the long-term viability and sustainability of the idea. Will it remain relevant and effective over time? Are there any potential negative environmental or social impacts?
9. **Market demand:** Evaluate the market potential and demand for the idea. Is there a target audience or market that would be interested in the solution? Conduct market research if necessary.
10. **Stakeholder input:** Seek feedback and input from relevant stakeholders, such as team members, customers, or experts. Consider their perspectives and incorporate their insights into the evaluation process.
11. **Flexibility and adaptability:** Assess the idea's potential to evolve, adapt, or pivot based on changing circumstances, market conditions, or user feedback.



## Expected Outcomes of the Project

Following are the expected outcomes of the final year Projects. Tick mark the relevant after discussing with the project guide

- New product design and development
- Technology Transfer
- App development
- Website development
- Industry problem solving
- Participate in State/National level project competitions
- Present/publish in National/International conferences/Proceedings
- Publication in peer reviewed national/international Journals
- File National /International Patent
- Any other.....

**Signature of Guide**

**Abstract**



**Signature of Guide**



## Rough Sketch / Flow Chart of the Project Idea

Signature of Guide

### Project Roadmap Phase-I (Sem -I)

Sr. No	Task to be completed	Month	Date
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2			
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Signature of Guide







**Project Discussion**

Meeting No. ....

Date: ....

**Discussion:**

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**Task Given by Guide:**

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**Absent Student Roll No.:**.....

**Signature of Guide**

**Project Discussion**

Meeting No. ....

Date: ....

**Discussion:**

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**Task Given by Guide:**

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**Absent Student Roll No.:**.....



**Signature of Guide**



# Project Discussion

Meeting No. ....

Date: ....

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Task Given by Guide:

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Absent Student Roll No.:.....

Signature of Guide

## Remarks for Presentation- 1

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Sr. No.	Examiner Panel Members
1	
2	
3	
4	



Date -

Signature of Guide



**Project Roadmap  
Phase – II (Sem-II)**

Sr. No	Task to be completed	Month	Date
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**Signature of Guide**

**Remarks for Presentation - 2**

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Sr. No.	Examiner Panel Members
1	
2	
3	
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**Date -**



**Signature of Guide**

**Weekly Plan of Month .....**

<b>Sr. No</b>	<b>Week</b>	<b>Date</b>	<b>Task to be completed</b>
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**Signature of Guide**

**Project Discussion**

**Meeting No. ....**

**Date: ....**

**Discussion:**

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**Task Given by Guide:**

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**Absent Student Roll No.:**.....



**Signature of Guide**



# Project Discussion

Meeting No. ....

Date: ....

Discussion:

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Task Given by Guide:

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Absent Student Roll No.:.....

Signature of Guide

## Weekly Plan of Month .....

Sr. No	Week	Date	Task to be completed
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Signature of Guide



**Weekly Plan of Month .....**

<b>Sr. No</b>	<b>Week</b>	<b>Date</b>	<b>Task to be completed</b>
<b>1</b>			
<b>2</b>			
<b>3</b>			
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<b>10</b>			
<b>11</b>			

**Signature of Guide/Co Guide**

**Project Discussion**

**Meeting No. ....**

**Date: ....**

**Discussion:**

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**Task Given by Guide:**

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**Absent Student Roll No.:**.....



**Signature of Guide**

# Project Discussion

Meeting No. ....

Date: ....

**Discussion:**

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**Task Given by Guide:**

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**Absent Student Roll No.:**.....

**Signature of Guide**

## Remarks for Presentation 3

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9. ....

Sr. No.	Examiner Panel Members
1	
2	
3	
4	

**Date-**



**Signature of Guide**

## Remarks for Presentation 4

1. ....
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Sr. No.	Examiner Panel Members
1	
2	
3	
4	

Date-

Signature of Guide

## Project Report Writing Guidelines

### Project Stage –I

It is important that the procedures listed below be carefully followed by all the students of B.E.

1. Prepare Three Spiral Binding Copies of your manuscript.
2. Limit your Project Stage I to **25– 30** pages (preferably)
3. The footer must include the following:  
Institute Name, B.E. (Mechanical Engg) Times New Roman 10 pt. and centrally aligned.
4. Page number as second line of footer, Times New Roman 10 Pt, centrally aligned.
5. Print the manuscript using
  - a. Letter quality computer printing.
  - b. The main part of manuscript should be Times New Roman 12 pt. with alignment - justified.
  - c. Use 1.5 line spacing.
  - d. Entire report shall be of 5- 7 chapters.
6. Use the paper size 8.5“× 11“or A4 (210 × 197 mm). Please follow the margins given below.  
Margin Location Paper 8.5“× 11“Paper A4 (210 × 197 mm)
 

Top 1“	25.4 mm
Left 1.5“	37 mm
Bottom 1.25“	32 mm
Right 1“	25.4 mm
7. All paragraphs will be 1.5 line spaced with a one blank line between each paragraph. Each paragraph will begin with without any indentation.
8. Section titles should be bold with 14 pt typed in all capital letters and should be left aligned.
9. Sub-Section headings should be aligning at the left with 12 pt, bold and Title Case (the first letter of each word is to be capitalized).





10. Illustrations (charts, drawings, photographs, figures) are to be in the text. Use only illustrations really pertinent to the text. Illustrations must be sharp, clear, black and white. Illustrations downloaded from internet are not acceptable.
  - a. Illustrations should not be more than two per page. One could be ideal
  - b. Figure No. and Title at bottom with 12 pt.
  - c. Legends below the title in 10 pt.
  - d. Leave proper margin in all sides
  - e. Illustrations as far as possible should not be photo copied.
11. Photographs if any should be of glossy prints
12. Please use SI system of units only.
13. Please number the pages on the front side, centrally below the footer
14. References should be either in order as they appear in the thesis or in alphabetical order by last name of first author
15. Symbols and notations if any should be included in nomenclature section only.
16. Following will be the order of report
  - i. Cover page and Front page as per the specimen on separate sheet
  - ii. Certificate from the Institute as per the specimen on separate sheet
  - iii. Acknowledgements
  - iv. List of Figures
  - v. List of Tables
  - vi. Nomenclature
  - vii. Contents
  - viii. Abstract (A brief abstract of the report not more than 150 words)
  - **Abstract** should be bold, Times New Roman, 12 pt and should be typed at the centre. The contents of abstract should be typed on new line without space between heading and contents. Try to include one or two sentences each on motive, method, key-results and conclusions in Abstract
  1. **Introduction** (2-3 pages) (TNR – 14 Bold)
    - 1.1 Problem statement (TNR – 12)
    - 1.2 Objectives
    - 1.3 Scope
    - 1.4 Methodology
    - 1.5 Organization of Dissertation
  2. **Literature Review** (10-12 pages)  
Discuss the work done so far by researchers in the domain area and their significant conclusions. No derivations, figures, tables, graphs are expected.
  3. **3 Detailed designs.** (10-12 pages)
  4. **4 Activity chart** with time period for pending work like fabrication / Experimentation / result analysis / validation (1 Page)
  5. **Concluding Remarks and Scope for the Future Work** (2-3 pages)
  6. **References**

**ANNEXURE** (if any) (Put all mathematical derivations, Simulation program as Annexure)

1. All section headings and subheadings should be numbered. For sections use numbers 1, 2, 3... And for subheadings 1.1, 1.2... etc. and section subheadings 2.1.1, 2.1.2... etc.
2. References should be given in the body of the text and well spread. No verbatim copy or excessive text from only one or two references. If figures and tables are taken from any reference then indicate source of it. Please follow the following procedure for references

**Reference Books**

Collier, G. J. and Thome, J. R., Convective boiling and condensation, 3rd ed., Oxford University Press, UK, 1996, pp. 110 – 112.

**Papers from Journal or Transactions**

Jung, D. S. and Radermacher, R., Transport properties and surface tension of pure and mixed refrigerants, *ASHRAE Trans*, 1991, 97 (1), pp. 90 – 98.

**Papers from Conference Proceedings**

Colbourne, D. and Ritter, T. J., *Quantitative assessment of flammable refrigerants in room air conditioners*, Proc. of the Sixteenth International Compressor Engineering Conference and Ninth International Refrigeration and Air Conditioning Conference, Purdue University, West Lafayette, Indiana, USA, 2002, pp. 34 – 40.

**Reports, Handbooks etc.**

United Nations Environmental Programme, Report of the Refrigeration, Air Conditioning and Heat Pumps, Technical Option Committee, 2002, Assessment - 2002.

ASHRAE Handbook: Refrigeration, 1994 (Chapter 44)

**Patent**

Patent no, Country (in parenthesis), date of application, title, year.

**Internet**

www. (Site) [Give full length URL with date on which site is assessed]



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