

### DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

### PROJECT RECORD NOTE BOOK

**ACADEMIC YEAR: 2024-2025** 

Proje	ect Title:						
Subje	ect Code / Name	: CS3811/1	Project Work				
Class	<b>S</b>	:					
Batcl	n Number	:					
C	• 37						
Supe	rvisor Name	:					
Team Members							
Sl.No.	Roll No.	Reg. No.	Name of the Student				
1.							

2.

3.

#### **VISION & MISSION OF THE INSTITUTE**

#### Vision

- ❖ To set a bench mark for the education providers in the field of Engineering and Technology
- ❖ To provide quality technical education that fosters the spirit of learning and research.
- ❖ To spawn creative, globally competent, highly employable and disciplined professionals through an innovative synergistic model of education that promotes academic excellence, scientific pursuit, and professionalism.

#### Mission

- ❖ To impart education that caters to the growing challenges of the Industry and social needs of our nation.
- ❖ To constantly upgrade the standards of teaching and learning in the field of engineering and technology.
- ❖ To build a good rapport between the academia and Industry
- ❖ To bridge the gap between the academia and industry.
- ❖ To promote and encourage the spirit of research in engineering and technology.
- ❖ To empower the youth not only technically but also to serve the society selflessly.

#### VISION & MISSION OF THE DEPARTMENT

#### Vision

To set a benchmark in the field of computer science and engineering education by delivering high-quality, innovative, and research-driven program that cultivates a passion for learning and produce globally competent, ethical, and socially responsible professionals equipped to tackle the challenges of the digital age.

#### Mission

- 1.To provide state-of-the-art computer science and engineering education that both satisfies the societal needs of our country and the world at large and tackles the expanding problems of the industry.
- 2. To consistently improve teaching and learning standards by incorporating cutting-edge techniques and cultivating a strong research environment that promotes originality and critical thinking.
- 3. To create and preserve dynamic relationships with the industry sector, guaranteeing that the graduates are equipped with the necessary skills to succeed in the workplace.

#### PROGRAM EDUCATIONAL OBJECTIVES(PEOs)

- **PEO1**: To enable graduates to pursue higher education and research, or have a successful career in industries associated with Computer Science and Engineering, or as entrepreneurs.
- **PEO2**: To ensure that graduates will have the ability and attitude to adapt to emerging technological changes.
- **PEO3 :** To prepare the graduates to be able to become entrepreneur in the field of Computer Science and Engineering

#### **PROGRAM OUTCOMES(POs)**

- 1) **Engineering Knowledge**: Apply the knowledge of mathematics, science, engineering fundamentals and an engineering specialization to the solution of complex engineering problems.
- 2) **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.
- 3) **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
- 4) **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.
- 5) **Modern Tool Usage**: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
- 6) **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.
- 7) **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.

- 8) **Ethics**: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- 9) **Individual and Team Work**: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- 10) **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.
- 11) **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.
- 12) **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 OBJECTIVES (PSOs)

- **PSO1**: To analyze, design and develop computing solutions by applying foundational concepts of Computer Science and Engineering.
- **PSO2**: To apply software engineering principles and practices for developing quality software for scientific and business applications
- **PSO3**: To adapt to emerging Information and Communication Technologies (ICT) to innovate ideas and solutions to existing/novel problems.

**CS3811 PROJECT WORK** 

LTPC 0 20 10

**OBJECTIVES:** 

1. To train the students to gain domain knowledge, and technical skills to solve potential

business/research problems

2. To Gather requirements and analyse and design suitable software solutions and evaluate the

alternatives

3. To work in small teams and understand the processes and practices in the 'industry.

Implement, Test and deploy solutions for target platforms

5. Prepare project reports and presentation

The students shall individually / or as group work on business/research domains and related

problems approved by the Department Panel members or the organization that offered the project.

The students in a group of 2 or 3 works on a topic approved by the Project Coordinator and

the Head of the department under the guidance of a faculty member and prepares a comprehensive

project report after completing the work to the satisfaction of the supervisor. The progress of the

project is evaluated based on a minimum of three reviews. The review committee may be constituted

by the Head of the Department and the Project Coordinator. A project report is required at the end of

the semester. The project work is evaluated based on oral presentation and the project report jointly

by external and internal examiners constituted by the Headof the Department.

**TOTAL: 300 PERIODS** 

**COURSE OUTCOME:** 

On Completion of the project work students will be in a position to take up any challenging

practical problems and find solution by formulating proper methodology.

MAPPING OF COURSE OUTCOMES WITH PROGRAMME OUTCOMES

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
СО		*	*	*	*	*	*	*	*	*	*	*

5

#### **RULES AND REGULATIONS**

- 1. Each batch should maintain this project handbook with complete details.
- 2. Student must bring the handbook and file to all the review sessions and also while meeting their respective Supervisor / Coordinators / HOD.
- **3.** Internal mark will be awarded based on the internal review mark.
- **4.** All the completed projects will belong to the institution and need to be submitted to the coordinator to get no dues clearance.
- **5.** The consumables required for the project should be taken care by the students.
- **6.** Review will be conducted only in the presence of the supervisor.
- 7. Final working model should be painted neatly and specification details should be embedded on the final review itself. (Name plate: project title, name of the students with <u>Reg.No.</u>, Name of the Supervisor; Specification board: Specification of the machine)
- **8.** There will not be any re-review for the students those who failed to attend the review.
- **9.** This Project workbook must be submitted to the coordinators at the end of the pre-final review.
- **10.** Every week students have to meet the Supervisor and it's the duty of the Supervisor to record the status of the project in the note book.

S. Pariarr			Date		
No	Review	"A" Sec	"B" Sec	"C" Section	Stages of completion
1.	Zeroth Review				Title and the area with details
2.	First Review				Title, Literature survey, project methodology, theoretical design calculation.
3.	Second Review				Project Report should be partially completed, completion of fabrication part should be above 50%.
4.	Third Review				Testing of physical model completed, final corrected project report completed.
5.	Pre - Final Review				Final Review
6.	Monitoring	-	Every Week supervisors have to sign the project record note book		Status of the work to be noted by the supervisor

### PROJECT COORDINATOR:

### **IMPORTANT DATES**

Si. No.	Description	Due Date	Completion Date	Remarks
1	Batch Formation			
2	Title and Supervisor confirmation			
3	Zeroth Review			
4	First Review			
5	Second Review			
6	Third Review			
7	Submission of Physical Model			
8	Submission of Rough Report			
9	Submission of Fair Report			

# **ABSTRACT**

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Supervisor for this team.									
1									
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Signature of Supervisor							Sig	nature	of HOD

# TITLE CHANGE (IF ANY)

CHANGE O	F TITLE:	
<b>Existing Title</b>	<b>:</b>	
New Title	:	
Reason	:	
Applied on	:	
Signature of S	Supervisor	Signature of HOD
	TITLE CHANGE (IF ANY)	
CHANGE O	F TITLE:	
Existing Title	e :	
New Title	:	
Reason	:	
Applied on		
	•	

**Signature of HOD** 

**Signature of Supervisor** 

### **REFERENCES**

Sl.No.	Type of References (Book/Journal/ website)	TITLE / AUTHOR / WEB ADDRESS
1		
2		
3		
4		
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6		
7		
8		
9		
10		
11		
12		

Date	Details of Work Done	Students' Sign	Supervisor Sign

Date	Details of Work Done	Students' Sign	Supervisor Sign

Date	Details of Work Done	Students' Sign	Supervisor Sign

Date	Details of Work Done	Students' Sign	Supervisor Sign

Date	Details of Work Done	Students' Sign	Supervisor Sign

# PROJECT APPROVAL

Project Title :					
Sl.No.	Reg.	No.	Name	of the Student	
1.					
2.					
3.					
4.					
Project D	omain :				
Impleme Tools Softwa	and				
			Declaration by Stud	lent	
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the academic			be withheld for any	further review and w	ill be punished as per
Students	1.		2.	3.	4.
Signature					
Supervisor				Proje	ct Coordinator
(Name & Sign	n)				

### **REVIEW**

#### **Candidate:**

Register Number	Candidate Name

### CANDIDATE CONTRIBUTION AND PERFORMANCE

Sl.No.	Subject Matter	Marks
1	Understanding background and topic	
2	Specifies Project goals	
3	Architecture /System Design	
4	Summaries algorithms and highlights the project features	
5	Specifies the testing platforms and benchmark systems	
6	Discusses the reasons of using Benchmark systems	
7	Summaries the ultimate findings of the project	
8	Question and Answer	
9	Presentation skills	
10	Implementation	
	Total	
Comme	nts:	

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<b>C</b>	.1:	1-4-	
Can	a	date	- 7

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Member 1 Member 2 Member 3 Guide

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10	Implementation (30 Percentage)	
	Total	
Comme	nts:	

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7	Summaries the ultimate findings of the project	
8	Question and Answer	
9	Presentation skills	
10	Implementation (60 Percentage)	
	Total	
Comme	nts:	

### **REVIEW**

#### **Candidate:**

Supervisor	Candidate Name

### CANDIDATE CONTRIBUTION AND PERFORMANCE

Sl.No.	Subject Matter	Marks
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7	Summaries the ultimate findings of the project	
8	Question and Answer	
9	Presentation skills	
10	Implementation (60 Percentage)	
	Total	
Comme	nts:	

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Member 1 Member 2 Member 3 Guide

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Comme	nts:	

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	Total	
Comme	nts:	

#### FORMAT FOR PREPARATION OF PROJECT

#### **FOR**

#### B.E. / B. TECH. / B. ARCH.

#### 1. ARRANGEMENT OF CONTENTS:

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

- 1. Cover Page & Title Page
- 2. Bonafide Certificate
- 3. Abstract
- 4. Table of Contents
- 5. List of Tables
- 6. List of Figures
- 7. List of Symbols, Abbreviations and Nomenclature
- 8. Chapters
- 9. Appendices
- 10. References

The table and figures shall be introduced in the appropriate places.

#### 2. PAGE DIMENSION AND BINDING SPECIFICATIONS:

The dimension of the project report should be in A4 size. The project report should be bound using flexible cover of the thick white art paper. The cover should be **printed in black letters** and the text for printing should be identical.

#### 3. PREPARATION FORMAT:

Cover Page & Title Page –A specimen copy of the Cover page & Title page of the project

- report are given in **Appendix 1.**
- **3.2 Bonafide Certificate** The Bonafide Certificate shall be in double line spacing using FontStyle Times New Roman and Font Size 14, as per the format in **Appendix 2.**

The certificate shall carry the supervisor's signature and shall be followed by the supervisor's name, academic designation (not any other responsibilities of administrative nature),

department and full address of the institution where the supervisor has Supervised the student. The term 'SUPERVISOR' must be typed in capital letters between the supervisor's name and academic designation.

- **3.3 Abstract** Abstract should be one page synopsis of the project report typed double line spacing, Font Style Times New Roman and Font Size 14.
- 3.4 Table of Contents The table of contents should list all material following it as well as any material which precedes it. The title page and Bonafide Certificate will not find a place among the items listed in the Table of Contents but the page numbers of which are in lower case Roman letters. One and a half spacing should be adopted for typing the matter under this head. A specimen copy of the Table of Contents of the project report is given in **Appendix 3.**
- **3.5 List of Tables** The list should use exactly the same captions as they appear above the tables in the text. One and a half spacing should be adopted for typing the matter under this head.
- **3.6 List of Figures** The list should use exactly the same captions as they appear below the figures in the text. One and a half spacing should be adopted for typing the matter under this head.
- **3.7 List of Symbols, Abbreviations and Nomenclature** —One and a half spacing should be adopted or typing the matter under this head. Standard symbols, abbreviations etc. should be used.
- 3.8 Chapters The chapters may be broadly divided into 3 parts (i) Introductory chapter, (ii) Chapters developing the main theme of the project work (iii) and Conclusion.

  The main text will be divided into several chapters and each chapter may be further divided into several divisions and sub-divisions.
  - **\Delta** 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.
- **3.8 Appendices** –Appendices are provided to give supplementary information, which isincluded in the main text may serve as a distraction and cloud the central theme.
  - Appendices should be numbered using Arabic numerals, e.g. Appendix 1, Appendix 2, etc.
  - Appendices, Tables and References appearing in appendices should be numbered and referred to at appropriate places just as in the case of chapters.
  - Appendices shall carry the title of the work reported and the same title shall be made in the contents page also.

**3.10 List of References** –The listing of references should be typed 4 spaces below the heading "REFERENCES" in alphabetical order in single spacing left – justified. The reference material should be listed in the alphabetical order of the first author. The name of the author/authors should be immediately followed by the year and other details.

A typical illustrative list given below relates to the citation example quoted above.

#### REFERENCES

- 1. Ariponnammal, S. and Natarajan, S. (1994) 'Transport Phonomena of Sm Sel X Asx', Pramana Journal of Physics Vol.42, No.1, pp.421-425.
- 2. Barnard, R.W. and Kellogg, C. (1980) 'Applications of Convolution Operators to Problems in Univalent Function Theory', Michigan Mach, J., Vol.27, pp.81–94.
- 3. Shin, K.G. and Mckay, N.D. (1984) 'Open Loop Minimum Time Control of Mechanical Manipulations and its Applications', Proc.Amer.Contr.Conf., San Diego, CA, pp. 1231-1236.
- **3.10.1 Table and figures -** By the word Table, is meant tabulated numerical data in the body of the project report as well as in the appendices. All other non-verbal materials used in the body of the project work and appendices such as charts, graphs, maps, photographs and diagrams may be designated as figures.

#### 4. TYPING INSTRUCTIONS:

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

One and a half 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 14.

\* \* \* \* \*

#### **APPENDIX 1**

(A typical Specimen of Cover Page & Title Page) <Font Style Times New Roman – Bold>

### TITLE OF PROJECT REPORT

<Font Size 18><1.5 line spacing>

#### A PROJECT REPORT

<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>

IN

BRANCH OF STUDY

<Font Size 14>

#### NAME OF THE COLLEGE

<Font Size 14>

ANNA UNIVERSITY: CHENNAI 600 025

<Font Size 16><1.5 line spacing>

**MONTH & YEAR** 

<Font Size 14>

#### **SPECIMEN**

# DESIGN AND FABRICATION OF AN MR FLUID BASED SUSPENSION SYSTEM FOR AUTOMOBILE

#### A PROJECT REPORT

Submitted by

SARAVANAN. A (Reg. No.)

AGATHIYAN.R (Reg. No.)

in partial fulfillment for the award of the degree

of

**BACHELOR OF ENGINEERING** 

in

**MECHANICAL ENGINEERING** 

RAJALAKSHMI INSTITUTE OF TECHNOLOGY

**ANNA UNIVERSITY: CHENNAI 600 025** 

**APRIL 2025** 

#### **APPENDIX 2**

(A typical specimen of Bonafide Certificate) <Font Style Times New Roman>

### **ANNA UNIVERSITY: CHENNAI 600 025**

<Font Style Times New Roman – size -18>

### **BONAFIDE CERTIFICATE**

<Font Style Times New Roman – size -16>

<Font Style Times New Roman – size -14>

Certified that this project report "TI's is the bonafide work of "NAME O	
"who carried out the project work	under my supervision.
< <signature department="" head="" of="" the="">&gt; SIGNATURE</signature>	< <signature of="" supervisor="" the="">&gt; SIGNATURE</signature>
< <name>&gt; HEAD OF THE DEPARTMENT</name>	< <name>&gt; SUPERVISOR</name>
< <department>&gt;</department>	< <department>&gt;</department>
< <full &="" address="" college="" dept="" of="" the="">&gt;</full>	< <full &="" address="" college="" dept="" of="" the="">&gt;</full>

**INTERNAL EXAMINER** 

**EXTERNAL EXAMINER** 

.

### APPENDIX 3

(A typical specimen of table of contents) <Font Style Times New Roman>

# TABLE OF CONTENTS

		CONTENTS	
CHAPTER NO.	TITLE		PAGE NO.
		ABSTRACT LIST OF TABLE LIST OF FIGURES	
		LIST OF SYMBOLS	xxvii
1.	INTRODUCTION		1
	1.1	GENERAL	1
	1.2		2
		1.2.1 General	5
		1.2.2	12
		1.2.2.1 General	19
		1.2.2.2	25
		1.2.2.3	29
		1.2.3	30
	1.3		45
	1.4		58
2.	LITERATURE REVIEW		69
	2.1	GENERAL	75
		2.2	99
		2.2	100

# Stick the Conference certificate / Journal publication / Patent/ Copyright

### CHECK LIST – REVIEW

Power Point Presentation (ppt and pptx format)	
Hard copy of the PPT with Supervisor sign	
Literatures	
Project Record Note Book	
Project File	
Paper Publication	
Conference Certificate	
Project Model	
Project Report	
CD with all the above documents	
Supervisor Signature	

### PROJECT HANDOVER CERTIFICATE

This	to	acknowledge	that	the	project		
titled							
Batch No. :	:						
Supervisor Name :					is received from the		
student (Re	eg No.)						
1.							
2.							
3.							
4.							
with all the	component	s and in fully working cond	dition for the proje	ct lab.			
No dues ca	n be issued	L					
Project Sup	pervisor	Project Coordinator	Project Lab In-	-charge	HOD		