

MECHANICAL ENGINEERING DEPARTMENT

FORMAT FOR PREPARATION OF PROJECT REPORT (M.tech)

ARRANGEMENT OF CONTENTS:

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

1. Cover Page
2. Inner Title Page (Same as cover page)
3. Certificate
4. Acknowledgement
5. Abstract
6. Table of Contents
7. List of Tables
8. List of Figures
9. Abbreviations and Nomenclature(If any)
10. Chapters
11. References
12. Appendices(If any)
13. Publication (If any)

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

TYPING INSTRUCTIONS:

1. The project must be submitted in Two Copies
2. The project report shall be computer typed (English- British, Font -Times Roman, Size- 12 point) and printed on A4 size paper .
3. The project report shall be hard bound with cover page in black colour. The name of the students, degree, month and year of submission, name of the university including institute name shall be printed in golden letters on the cover page [Refer sample sheet (outer cover page)]
4. The project report shall be typed with 1.5 line spacing with a margin 3.5 cm on the left, 2.5 cm on the top, and 1.25 cm on the right and at bottom. Every page in the project

report must be numbered. The page numbering, starting from acknowledgements 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 centre of the page.

5. In the project report, the title page [Refer sample sheet (inner title pager)] should be given first then the Certificate by the candidate and the supervisor(s) in sequence, followed by an **abstract** of the report (not exceeding one page) and so on.
6. **The table of contents** should list all headings and sub headings. The title page and certificate will not find a place among the items listed in the Table of Contents. One and a half spacing should be adopted for typing the matter under this head.
7. **The list of tables** 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.
8. **The list of figures** 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.
9. The list of symbols, abbreviation & nomenclature should be typed with one and a half line spacing. Standard symbols, abbreviation etc should be used.
10. Project report consists of following chapters.
 - a. Chapter 1- Introduction
 - b. Chapter 2- Literature Survey
 - c. Chapter 3- Present Work

(It will be divided into several chapters and each chapter may be further divided into several divisions and sub-divisions depending on type & volume of work.)

- d. Chapter 4- Result & Discussion
- e. Chapter 5- Conclusion & Future Scope (The chapter No. of chapter 4 & 5 may vary depending on no. of chapters covered in 'Present Work' chapter).

Each chapter should be given an appropriate title. Tables & 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. Conclusion must not exceed more than two pages. Future scope also must not exceed one page.

13. Appendices are provided to give supplementary information, which is included in the main text may serve as a distraction and cloud the central theme.

i) Appendices should be numbered using Arabic numerals, e.g. Appendix 1, Appendix 2, etc.

ii) Appendices, Tables and References appearing in appendices should be numbered and referred to at appropriate places just as in the case of chapters.

iii) Appendices shall carry the title of the work reported and the same title shall be made in the contents page also.

14. 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 surname of the first author. The name of the author (s) 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. **Anderson, J.D. (1995)** *Computational Fluid Dynamics*. McGraw Hill, Singapore 1995.
2. Barnard, R.W. and Kellogg, C. (1980) ‘Applications of Convolution Operators to Problems in Univalent Function Theory’, *Michigan Math, 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.
4. Smith, R., (2002), —Conformal Lubricated Contact of Cylindrical Surfaces Involved in a Non-Steady Motion,|| from web site <http://www.cas.phys.unm.edu/rsmith/homepage.html> accessed on 12/08/2007.

<PROJECT TITLE>

(24pt., 1.5 line spacing, Centre Aligned, Bold)

A PROJECT REPORT

(14pt, Bold)

SUBMITTED IN PARTIAL FULFILLMENT OF THE REQUIREMENTS FOR THE AWARD OF
THE DEGREE OF
(12pt, Centre Aligned)

MASTER OF TECHNOLOGY (14pt, Bold)

(Industrial and Production Engineering) (12pt)

SUBMITTED TO (14pt, Bold)

KURUKSHETRA UNIVERSITY, KURUKSHETRA (14pt, Bold)

SUBMITTED BY (14pt, Bold)

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NAME OF SUPERVISOR(S) (14pt)

Designation (12pt)

November 2013 (12pt)

(Month & Year of Submission)



GEETA ENGINEERING COLLEGE, PANIPAT
HARYANA (14pt, Bold)

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SAMPLE SHEET

ACKNOWLEDGEMENT

I would like to place on record my deep sense of gratitude to Er. _____, HOD-Dept. of Mechanical engineering, Geeta Engineering College, Panipat for his generous guidance, help and useful suggestions.

I express my sincere gratitude to Er. _____, Deptt. of Mechanical engineering, Geeta Engineering College, Panipat for his stimulating guidance, continuous encouragement and supervision throughout the course of present work.

I am extremely thankful to Prof. _____, Director, Geeta Engineering College, Panipat for providing me infrastructural facilities to work in, without which this work would not have been possible.

Signature(s) of Students

Karan Kumar
Roll no. 98149231

CERTIFICATE

I hereby certify that the work which is being presented in the M.Tech. Project Report entitled “<project title>”, in partial fulfillment of the requirements for the award of the **Master of Technology in Industrial and Production Engineering** and submitted to the Dept. of Mechanical Engineering, Geeta Engineering College, Panipat is an authentic record of my own work carried out during a period from **July 2013 to November 2013(3rd semester)** under the supervision of **Name & Designation of supervisor(s), ME Department.**

The matter presented in this Project Report has not been submitted by me for the award of any other degree elsewhere.

Signature of Student (S)

Karan Kumar (98149231),

This is to certify that the above statement made by the student(s) is correct to the best of my knowledge.

Signature of Supervisor(s)

HOD

Name & Designation

Mechanical Department

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NOMENCLATURE

English Symbols

A Pre-exponential constant

C_p Specific heat, J/kg-K

c Reaction progress variable

D_d Instantaneous droplet diameter, m

D_m Instantaneous droplet diameter

ABBREVIATIONS

ATDC	After Top Dead Center
BDC	Bottom Dead Center
BTDC	Before Top Dead Center
CA	Crank Angle
CAD	Computer Aided Design
CCS	Combined Charging System
CFD	Computational Fluid Dynamics
CO	Carbon Monoxide
CTC	Characteristic– Time Combustion