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 subheadings. 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:


SAMPLE SHEET (OUTER COVER BINDING PAGE)

<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)
Name of Student(s) (14pt)
Karan Kumar

Roll No. (14pt)
98149231

SUPERVISED BY (14pt,Bold)
NAME OF SUPERVISOR(S) (14pt)
Designation (12pt)

November 2013 (12pt)
(Month & Year of Submission)

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

SAMPLE SHEET (INNER TITLE PAGE)
<PROJECT TITLE>

A PROJECT REPORT

SUBMITTED IN PARTIAL FULFILLMENT OF THE REQUIREMENTS FOR THE AWARD OF
THE DEGREE OF

MASTER OF TECHNOLOGY
(Industrial and Production Engineering)

SUBMITTED TO
KURUKSHETRA UNIVERSITY, KURUKSHETRA

SUBMITTED BY

Name of Student(s)           University Roll No.
Karan Kumar                  98149231
Rajesh Sharma                98149232
Tarvinder Singh              98149233

SUPERVISED BY

NAME OF SUPERVISOR(S)
Designation

November 2013
(Month & Year of Submission)

GEETA ENGINEERING COLLEGE, PANIPAT
HARYANA
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
Cp  Specific heat, J/kg-K
C  Reaction progress variable

$D_d$  Instantaneous droplet diameter, m

$D_m$  Instantaneous droplet diameter
# ABBREVIATIONS

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