Research on innovative approaches for software utilization for the custom design of heat cylinders.

**Introduction**

Sort description about heat cylinders custom design

Background

Problem statement

Aim Objective

Significance

Scope and methodology

Dissertation structure

**Literature Review**: Only provide CAD Designing related reference

**CAD Designing Tools**

Current designing process with different software

Autodesk inventor, Solid works, Fee CAD

Detail overview of current method of designing process in CAD software

**Analysis**

Challenges or limitation of current approach with advantage

**Experimentation Designing**

Potential use of web base tools

Web Base 3D Modeling tools: WebGL and 3D tools ThreeJS and BabylonJS

Building web-based Modeling tools for designing cylinders

Build 3D interactive tools

Auto Calculation

Calculate Metal Sheet Size with hole size and position

Export data and import design in CAD software use of advantage of CAD Software.

**Evaluation**

Comparative analysis

Current method of design vs new approach

Pro and Cons

Opinion survey

**Conclusion**

Reference

GitHub Rep for software and designing tools and

Online link for use tools

While the exact marking scheme for each chapter of a dissertation at Manchester Metropolitan University (MMU) can vary depending on the specific program and individual supervisors, MSc Computer Science dissertations typically follow a common structure with marks allocated to specific chapters or sections. Here's a general breakdown based on common academic practice for dissertations:

**Typical Chapter Mark Allocation for an MSc Dissertation**

1. **Introduction (10%-15%)**
   * Problem statement
   * Objectives and aims
   * Research scope and significance
2. **Literature Review (20%-25%)**
   * Critical evaluation of relevant literature
   * Identification of research gaps
   * Establishing the theoretical framework for the research
3. **Methodology (15%-20%)**
   * Research design and justification
   * Description of methods (e.g., experimental, computational, or theoretical)
   * Ethical considerations (if applicable)
   * Limitations of the methodology
4. **Implementation or Experimentation (20%-25%)**
   * Explanation of implementation details (e.g., algorithms, software, experiments)
   * Justification of technical choices
   * Presentation of the experimental setup
5. **Results and Analysis (15%-20%)**
   * Presentation of findings (e.g., graphs, tables, summaries)
   * Statistical or qualitative analysis of results
   * Interpretation in relation to objectives
6. **Discussion (10%-15%)**
   * Relating results to the literature
   * Implications of findings
   * Reflection on research outcomes and limitations
7. **Conclusion and Future Work (5%-10%)**
   * Summary of contributions and key findings
   * Recommendations for further research
   * Highlighting the significance of the work
8. **Presentation and Referencing (5%-10%)**
   * Quality of writing, structure, and flow
   * Correct use of citations and references
   * Adherence to formatting guidelines

**Example Mark Distribution Table**

| **Chapter** | **Weight (%)** |
| --- | --- |
| Introduction | 10 |
| Literature Review | 20 |
| Methodology | 15 |
| Implementation/Experiment | 20 |
| Results and Analysis | 20 |
| Discussion | 10 |
| Conclusion and Future Work | 5 |
| Presentation & Referencing | 5 |

**Notes:**

* These percentages are indicative and may vary based on specific dissertation guidelines at MMU.
* Ensure that you refer to the **Dissertation Handbook** or consult your **supervisor** for the official mark allocation for your program.