**HARARE INSTITUTE OF TECHNOLOGY**

**SOFTWARE ENGINEERING DEPARTMENT**

**HIT 200 Project Documentation Structure**

**PRESENTATION-**

Format – Times Roman 12 for ordinary text, Main headings Times Roman 14, Spacing 1.5. Chapters and sub-chapters, tables and diagrams should be numbered. Document should be in report form. Range of document pages: Between 50 and 100. Work should be clear and neat.

Pre- Chapter Section

* Abstract page
* Preface page
* Acknowledgements page
* Dedication page
* Declaration page

Chapter One - Introduction

* + Background,
  + Problem Statement,
  + Objectives – smart, clearly measurable from your system. Always start with a TO…
  + Hypothesis,
  + Justification,
  + Proposed Tools
  + Feasibility study: Technical, Economic & Operational
  + Project Plan – Time Plan, Gantt chart

Chapter Two – Literature Review

* Introduction,
* Related Work
* Conclusion

Chapter Three - Analysis

* Information Gathering Tools, Description of System
* Data Analysis - Using UML diagrams (existing system), DFDs of existing system
* Functional Analysis of Proposed System – Functional and Non-Functional Requirements, User Case Diagrams

Chapter Four - Design

* Systems Diagrams – Using UML diagrams, DFD diagrams, Activity diagrams
* Architectural Design – hardware, networking
* Database Design – ER diagrams, Normalized Databases
* Program Design – Class diagrams, Sequence diagrams, Package diagrams, Pseudocode
* Interface Design – Screenshots of user interface

Chapter Five: Implementation & Testing:

* Pseudocode of major modules /Sample of real code can be written here.
* Software Testing – Unit, Module, Integration, System, Database & Acceptance Testing
* Installation & deployment, Maintenance

Chapter Six – Conclusion and Recommendations

* Results
* Summary
* Recommendations
* Future Works.

Bibliography (References)

* Proper numbering should be used

Appendices

* templates of data collection tools,
* a user manual of the working system,
* sample code,
* research papers. (survey paper and technical paper)