Thesis Title

Student Name – Student Number

Orientador: XXXXX

Co-Orientador: XXXX

Departamento de Engenharia Informática

Instituto Superior Técnico

**Abstract.** 1 paragraph for context, Problem, Proposal and Evaluation

**Keywords:** at lest six

1 Introduction

Context

Problem

Proposal

Evaluation process and criteria

Structure of the document

2. Problem

One sentence in **bold** or define Research Questions / Hypothesis - see (1)

Figure to illustrate the problem

References that support the problem

Problem consequences / motivation

3 Related Work

Critical analysis of the solutions that tried to solve the thesis problem

For each solution:

Brief description of the solution with reference to the publications

Critical analysis of the solution (try to find references)

Section to compare solutions

4 Theoretical Background

If the thesis proposal is based on an existent solution, then this solution can be described in this chapter (e.g. DEMO (2))

5 Proposal

One sentence in bold that defines the proposal

Figure that illustrates the proposal

Explain extensively the proposal

6 Research Methodology

Describe the research methodology used in the thesis (e.g. Design Science Research (3))

Can be included in the introduction as a section

7 Evaluation

Evaluation process

Explain using (4) (5)

Evaluation criteria

8 Conclusion

Main expected contributions

References

1. **Creswell, John.** *Research Design - Qualitative, Quantitative, and Mixed Methods Approaches.* 3rd. SAGE, 2009.

2. **Dietz, Jan.** *Enterprise Ontology: Theory and Methodology.*  Springer, 2006.

3. **Hevner, Alan, et al..** *Design Science in Information Systems Research.*  MIS Quarterly, Vol.28, No.1, pp.75-105, Society for Information Management and The Management Information Systems Research Center, 2004.

4. **Österle, H, et al.** *Memorandum on Design-Oriented Information Systems Research.* 2011. pp. 7-10. Vol. 20.

5. **Pries-Heje, J., Baskerville, R. and Venable, J.** *Strategies for Design Science Research Evaluation.*  16th European Conference on Information Systems (ECIS), pp. 255-266, 2004.

Appendix

Gantt chart

Explain the chart