# CNG491 Final Report Templates

This document provides two different templates for standard development and research-based development project reports. You will need to prepare your report in LaTeX and submit it in .pdf format. The required LaTeX template is available on ODTUCLASS. The following items will also be parts of the assessment.

- **Organisation of Report:** Appropriateness of organisations, structures, formats, the standard of appearance of the report, readability, logical flow and visual presentation of all material pertinent to the project.
- **Referencing, Bibliography & Appendices**: Standard of citation, reference method and supporting documents – Please note that proper citations, paraphrasing, use of quotations etc. are very important. Please do not directly copy paragraphs of information from external resources. In case there are simple diagrams you need, draw them from scratch. If the figures are rather complicated, or unique, you can copy them, but for both of the cases, proper citation is essential.

## Final Report Template for Standard Development Project

The report MUST include at least the following sections:

1. Introduction (15 marks)
   - Problem formulation
   - Presenting the background to the problem – a review of related literature & research reports for research elements may be used
   - Aims and objectives
   - Stakeholders

2. Requirements Specification (25 marks)
   - Functional requirements
   - Non-functional requirements
   - Assumptions and justifications
   - Structured use case diagram
   - High level sequence diagrams
   - Interfaces definitions with external systems (if exists)
   - Graphical user interface

3. System Architecture and Models (25 marks)
   - Architectural model
   - Process model
   - Data flow models – for the first three levels
   - Class diagram (if OO modelling is used) or a list of required functions realising the subsystems and their definitions (if OO is not used).
   - Database design (if exists) – provide ERD model and a complete description for DB tables and relationships
   - List of special data structures and required data types.
   - List of special algorithms needed for the system.

- List of interfaces definitions – detailed according to the designed data types

4. Project Management Section (25 marks)
   - Software estimations
   - List of ALL the project tasks and their durations for this semester
   - Task allocation for this semester
   - List of the milestones for this semester
   - Activity diagram, you can show only the milestones, and main tasks.
   - Gantt chart, you can show only the milestones, and main tasks.

5. Conclusion (10 marks)
   - Critical evaluation of the project and conclusions reached
   - Retrospective of the first semester
   - Future work

**Final Report Template for Research-based Development Project**

The report MUST include at least the following sections:

1. Introduction (15 marks)
   - Problem formulation
   - Presenting the background to the problem – a review of related literature & research reports for research elements may be used
   - Aims and objectives
   - Stakeholders

2. Literature Review: (15 marks)
   - Background information of the problem considered
   - Previous work in the field of interest – you need to present the background to the problem using a review of related literature. Literature should be up to date, directly relevant and should underpin the problem area chosen.

3. Research Method (5 marks)
   - Methods to be employed for implementation, testing, and validation should be briefly discussed.

4. Requirements Specification (15 marks)
   - Functional requirements
   - Non-functional requirements
   - Assumptions and justifications
   - Structured use case diagram
   - High level sequence diagrams
   - Interfaces definitions with external systems (if exists)
   - Graphical user interface

5. System Architecture and Models (15 marks)
   - Architectural model
   - Process model
   - Data flow models – for the first three levels

- Class diagram (if OO modelling is used) or a list of required functions realising the subsystems and their definitions (if OO is not used).
- Database design (if exists) – provide ERD model, and complete description for DB tables and relations
- List of special data structures and required data types.
- List of special algorithms needed for the system.
- List of interfaces definitions – detailed according to the designed data types

6. Project Management Section (25 marks)
   - Software estimations
   - List of ALL the project tasks and their durations for this semester
   - Task allocation for this semester
   - List of the milestones for this semester
   - Activity diagram, you can show only the milestones, and main tasks.
   - Gantt chart, you can show only the milestones, and main tasks.

7. Conclusion (10 marks)
   - Critical evaluation of the project and conclusions reached
   - Retrospective of the first semester
   - Future work