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Appointment scheduling Platform 2025

**Graduation Project Documentation**



**Appointment scheduling Platform**

**A Project Submitted in partial fulfilment of the requirements for the Degree of Bachelor of Science in Systems and Computers Engineering**

**Submitted By**

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**2025**

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**Date**

10th of July, 2025

ABSTRACT

**Time New Roman, 12pt and justify with 1.5 line**

**Time New Roman, 14pt, bold, and centred**

**Top margin: 3cm**

The abstract should identify clearly and succinctly the purpose of the project, the methods used, the results obtained and the significance of the results or findings. The abstract must not exceed 300 words. Abstract section gives readers a brief idea about your project, which briefly presents your problem statement and how you can solve it.

**Left margin: 3.8 cm**

paragraph. Leave tab with 4 spaces when you start.

**3 lines spaces only**

**Right margin: 2.5cm**

**You can use at max 5 keywords**

KEYWORDS keyword1; Keyword2; Keyword3

**Here you can name your project keywords and separate them with semicolon**

ACKNOWLEDGEMENTS

The content of this single page is left to the preference of the student. It is suggested however that the page makes reference to guidance received by the student from his or her supervisor and project Committee members. Reference should also be made to any financial assistance received to carry out the project. Any extraordinary assistance received by the student for example in word processing, data collection, data analysis, and so on, should be properly acknowledged. The acknowledgements should not exceed 250 words.

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**GLOSSARY AND LIST OF ABBREVIATIONS**

**CHAPTER 1**

**CAPITAL LETTERS**

**Font Style: Time New Roman , Bold**

**Font Size: 14**

**Justified: Centre**

**Spacing After title: 12p**

**Capital First Letter**

**Font Style: Time New Roman, Bold**

**Font Size: 12**

**Spacing before: 18**

**Spacing After: 6**

**INTRODUCTION**

## Background and Motivation

In this section, you should describe the problem that you set out to solve with the project. An introduction might, for example, begin by stating, "The aim of the work described in the Report was to provide a software tool with which peoplecan arrange meetings." Avoid starting a Report with an irrelevant history ofinformation technology.

Explain whatever background the reader will need in order to understand the problem. The background might refer to previous work in the academic literature that provides evidence that the problem is a real and significant problem worth solving. Include a clear and detailed statement of the project aims and provide an overview of thestructure of the solution. Please note that the GP2 report (492) should have more literature material than the GP1 (491).

**Leave 8 spaces at the beginning of paragraphs**

**except the first paragraph in each section**

Conventionally, the last part of the introduction outlines the remainder of the Report,explaining what comes in each section. Your report should be organized as follow:

**Start from this page with Arabic numbering**

**CHAPTER 2**

**BACKGROUND MATERIALS**

## Introduction

This chapter introduces the necessary background material related to the underlying project. It is often appropriate to provide more information than was given in your Introduction. Try to limit yourself just to what the reader needs to know to understand the solution that you havedeveloped in your project. Put your work in the context of related existingwork, commercial products, and research papers (if relevant).

## Graph Colouring

## Meta-Heuristic Methods

Sub-Sub title font is time new roman with 12pt and not bold.

A. Local Search Methods

You can extend you numbering by using A and leave tab with 2 spaces “Before text indentation = 0.13"”, then Sub A “A.I” and leave tab with 7 spaces “Before text indentation = 0.44"”, then Sub-Sub A “A.I.1” and leave tab with 15 spaces “Before text indentation = 0.94"”.

A.I Hill Climbing

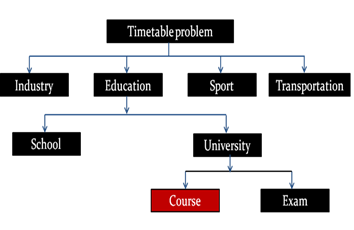
Sub A “A.I” and leave tab with 4 spaces.

B. Population Based Algorithms

B.I Evolutionary Algorithms

B.I.1 Harmony Search Algorithm

Figure can be cited inside the text by using “Figure”, for example, figure 1 shows the classification of the timetable problems.



**Figure: bold with capitalizing the first letter.**

**First number: Chapter number**

**Second number: figure number within the chapter starting from 1 then followed by a colon (:)**

**Figure 2.1:** Timetable scheduling problems classification.

**Figure caption: under the figure.**

**Font: 11pt**

**Style: Time New Roman**

Figure 1 shows that before and after spacing should be equal to 12pt. The figure caption is under the figure. Figures are center justification. If you start a paragraph with the word “Figure” then we use capital F, otherwise small f.

Tables are similar to the figures, but the difference that the table caption is above the table, for example, Table 1 shows the physical annealing converting to simulated annealing. In addition that, the column header are bold.

**Table caption: Above the table.**

**Font: 11pt**

**Style: Time New Roman**

**Table 2.1:** The physical annealing converting to simulated annealing (Cerny, 1985).

|  |  |
| --- | --- |
| **Thermodynamic Simulation** | **Combinatorial Optimization** |
| System States  **Table: bold with capitalizing the first letter.**  **First number: Chapter number**  **Second number: table number within the chapter starting from 1 then followed by a colon (:)** | Feasible Solutions |
| Energy | Cost |
| Change of State | Neighbouring Solutions |
| Temperature | Control Parameter |
| Frozen State | Heuristic Solution |

References are cited inside the text between “(” and ”)”. We Use APA style, see the examples in the references section.

## Methodology

Analysis and Specification: How you analyzed the problem, including user requirements. Give an appropriate specification of the solution. This is done inGP1.For example, we can include, the method used, functional requirements, non-functional requirements, and security requirements.

**CHAPTER 3**

**SYSTEM DESIGN**

## Introduction

Design: if it is a software development project then give a high-level account of the structure of your software and how it works. What algorithms does it use? How do these compare with alternatives? What were the main design decisions you took, and their justifications? This is done in GP1.

Implementation and testing: a detailed account of the implementation and testing of your software. Explain the conceptual structure of the algorithms. Also explain what data structures you used, and how the algorithms were implemented. What implementation decisions did you take, and why? There is no need to list every little function and procedure and explain its working in elaborate detail; use your judgment on what is appropriate to include. This is done in GP2.

**CHAPTER 4**

**RESULTS AND DISCUSSION**

## Results

Results: you should assess the success of your project. How does it compare with the original specification? How reliable is it? How have you tested it? Comment on its robustness. This is done in the final documentation of the project.

## Discussion

Discussion: here you will summarize your achievements and also the deficiencies of your project. You can also say what you would or could have done, if you had had more time or if things had worked out differently. It is important to be completely honest about the deficiencies and inadequacies of your work, such as they are. Part of your aim is to demonstrate your ability to recognize problems that remain. This is done in GP2.

**CHAPTER 5**

**CONCLUSION AND FUTURE WORK**

## Conclusion

Give a brief statement of how the solution that you have provided addresses the problem stated in the introduction. Provide an evaluative statement based on the results. You should not introduce new material.

## Future Work

Future Work: here you will recommend what is needed to be done in the future to your work. This is done in GP2.

**REFERENCES**

Cerny, V. 1985.Thermodynamical Approach to the Traveling Salesman Problem: An Efficient Simulation Algorithm, *J. Opt. Theory Appl.*, volume 45, number1, pages.41-51.

References: for your Final Year project, it is required that you cite and reference work to which you owe an intellectual debt. It is required that you cite and reference work that provides supporting evidence. It is required that you cite and reference work so that the reader can find the sources that have been quoted.

In other words, the purposes of a reference are to acknowledge the contributions of other authors and to enable readers to locate source easily. In this section, you can use alphabetically or numerically system (e.g. APA style referencing).

**General guidelines:**

**APA Reference List Examples**

* **Book with Single Author:**

Gore, A. (2006). *An inconvenient truth: The planetary emergency of global warming and what we can do about it.* Emmaus, PA: Rodale.

**In-text reference:** (Gore, 2006)

* **Book with Two Authors:**

Michaels, P. J., & Balling, R. C., Jr. (2000).*The satanic gases: Clearing the air about global warming*. Washington, DC: Cato Institute.

**In-text reference:** (Michaels & Balling, 2000)

* **Book with Editor as Author:**

Galley. K. E. (Ed.). (2004). *Global climate change and wildlife in North America.*Bethesda, MD: Wildlife Society.

**In-text reference:** (Galley, 2004)

* **An Anonymous Book:**

*Environmental resource handbook*. (2001). Millerton, NY: Grey House.

**In-text reference:** (Environmental Resource Handbook, 2001)

* **Articles in Reference Books (unsigned and signed):**

Greenhouse effect.(2005). *American heritage science dictionary*. Boston, MA: Houghton Mifflin.

Schneider, S. H. (2000). Greenhouse effect.*World book encyclopedia* (Millennium ed. Vol. 8, pp. 382-383). Chicago, IL: World Book.

**In-text references:** (Greenhouse effect, 2005)

(Schneider, 2000)

* **Journal Article when each issue begins with p.1:**

Bogdonoff, S., & Rubin, J. (2007). The regional greenhouse gas initiative: Taking action in Maine. *Environment, 49*(2), 9-16.

**In-text reference:** (Bogdonoff& Rubin, 2007)

* **Website:**

United States Environmental Protection Agency. (2007, May 4). *Climate Change*. Retrieved From the Environmental Protection Agency website: http://www.epa.gov/climatechange

**In-text reference:** (United States Environmental, 2007)

Gelspan, R. (2007). *The Heat Is Online*. Lake Oswego, OR: Green House Network. Retrieved from The Heat Is Online website: http://www.heatisonline.org

In-text reference: (Gelspan, 2007)

**How to Cite an Website in APA**

**Structure:** Last, F. M. (Year, Month Date Published). Article title.*Website Title*.Retrieved Month Date, Year, from URL.

**Example:**

* Satalkar, B. (2010, July 15). Water aerobics. *Buzzle*.com. Retrieved July 16, 2010, from http://www.buzzle.com.
* Cain, K. (2012, June 29). The Negative Effects of Facebook on Communication. *Social Media Today RSS*. Retrieved January 3, 2013, from [http://socialmediatoday.com](http://socialmediatoday.com/).

OR numerically as below

All reference items must be in 10pt font. Please use Regular and Italic styles to distinguish different fields. Number the reference items consecutively in square brackets (e.g. [1]).

When referring to a reference item, please simply use the reference number, as in [2]. Do not use “Ref. [3]” or “Reference [3]” except at the beginning of a sentence, e.g. “Reference [3] shows …”. Multiple references are numbered with one bracket and separated with comas (e.g. [2], [2, 3], [4 – 6]).

Structure: First Author Last Name, First Author First Name.

[1]**Author. (Date published if available; n.d.--no date-- if not). Title of article/book. *Title of web site* . Retrieved date. From URL.**

[2]Author. (Date published if available; n.d.--no date-- if not). Title of article/book. Title of web site . Retrieved date. From URL.

**APPENDICES**

**Appendix A:**

Appendices: the Report must contain an appendix explaining file structure on thedata CD submitted with it. The appendix must also contain information on how thecode should be run. Other appendices may include documents such as: the projectproposal; a selection of experimental data; schedules; testing strategy; riskmanagement plans; glossary; manual; etc. Don't include the source code as anappendix (submit it on CD; see below). Don't include voluminous appendices (theseshould also be submitted on a CD). A report template can be found in the collegewebsite.

**Timeline/Milestones (Gantt Chart)**

This course is similar to self-study/research. Weekly meetings are scheduled with the supervisor for the project. Each student’s group will meet together weekly, keeping detailed minutes of the meetings.

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Task |  | Weeks | | | | | | | | |
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|  |  |  |  |  |  |  | |  |  |  |
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| 2. …….. |  |  |  |  |  |  | |  |  |  |
| 3. …….. |  |  |  |  | |  |  | |  |  |
| 4. …….. |  |  |  |  |  |  | | |  |  |
| 5. …….. |  |  |  |  |  |  | |  |  |  |
| ……….. |  |  |  |  |  |  | |  |  | |