**DISSERTATION SUPERVISION LOGBOOK**

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| **Institute** | Information and Communication Technology |
| **Programme** | Software Development |
| **Dissertation**  **Title** |  |
| **Supervisor** | Mr Frankie Inguanez |
| **Student** | Mr Massimo Darmanin |
| **Student ID No** | 0277596M |

**Note**

1. It is the **student’s responsibility** to ensure that this logbook is correctly documented and maintained, and that Supervisor recommendations and signatures are acquired after each and every meeting.
2. This logbook is to be submitted together with the dissertation.
3. The institute reserves the right **to not accept** the student’s dissertation for evaluation if this logbook is **not filled in correctly** and **duly signed** by the student and supervisor as indicated.

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| **Meeting Number : 01** | **Date of meeting : 08/10/2021** |
| **Issues discussed at the meeting (*to be filled in by Student*)**  **TODO** | |
| **Supervisor recommendations (*to be filled in by Supervisor*)**  1 - Revise the code and work, will check to debug the visualisation  2 - Obtain data for months of March, April, May for years of 20117-2021  3 - Create a git repository and share with me (mcast email) | |

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| **Date of Next Meeting** | **Student Signature** | **Supervisor Signature** |
| 15/10/2021 |  |  |

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| **Meeting Number : 02** | **Date of meeting : 15/10/2021** |
| **Issues discussed at the meeting (*to be filled in by Student*)**   * **Repository** * **Official Documents** * **Dataset** | |
| **Supervisor recommendations (*to be filled in by Supervisor*)**   * Thanks for repository * Check official documents * Well done on dataset gathering. Complete to have also for 2017 (2017-2021). Start identifying which products have Malta without clouds. * Python environment and setup ready * For next week we shall focus on R code to identify issue and fix. Then start migrating to python. * Identify articles over the study period, to find situations when extreme weather (hot or cold) was reported for a specific month. Our research shall investigate whether the same observations can be made, and whether a contribution can be made. * Research any publication/article that argue that urban areas are hotter than rural. We can consider a study of the land temperature difference between the rural and urban zones in Malta (& Gozo). | |

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| **Date of Next Meeting** | **Student Signature** | **Supervisor Signature** |
| 29/10/2021 |  |  |

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| **Meeting Number : 03** | **Date of meeting : 29/10/2021** |
| **Issues discussed at the meeting (*to be filled in by Student*)**  Progress update | |
| **Supervisor recommendations (*to be filled in by Supervisor*)**  Well done on script to index products  Well done on downloading 2017 products yet double check to confirm that they are working properly  Download SNAP and QGis  Follow the tutorial here and visualize LST and Clouds layers in QGIS for Malta. Remember to reproject CRS to 4326 both in SNAP and in QGIS. <https://www.youtube.com/watch?v=GbQOZJC6Jgc>  Attempt to use the script used so far, to reproject product, extract cloud\_in layer and export to visualize. This will allow you to determine if clouds are present or not.  Well done on finding articles documenting events of extreme heat or cold. | |

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| **Date of Next Meeting** | **Student Signature** | **Supervisor Signature** |
| 22/11/2021 |  |  |

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| **Meeting Number : 04** | **Date of meeting : 22/11/2021** |
| **Issues discussed at the meeting (*to be filled in by Student*)**  **Progress Update**  **Bug Fix**  **CSV To do** | |
| **Supervisor recommendations (*to be filled in by Supervisor*)**  Continued to download more data.  Consider the .transpose() method for the pandas dataframe.  Consider exporting all data in a csv containing date, longitude, latitude and temperature.  Focus on literature review. | |

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| **Date of Next Meeting** | **Student Signature** | **Supervisor Signature** |
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| **Meeting Number : 05** | **Date of meeting : 16/12/2021** |
| **Issues discussed at the meeting (*to be filled in by Student*)**  **Overleaf**  **Write-up sequence** | |
| **Supervisor recommendations (*to be filled in by Supervisor*)**  Fixed overleaf sharing of template. Start drafting, will assist if errors and warnings arise.  Recommended sequence of write-up is: lit rev, res meth, disc of res, con, int, abs  The focus of your lit rev should not be on what the satellite is and how it works but rather on how it is being used for research purposes and to the general benefit. You can assume that the reader has a base knowledge on the subject matter, if not they are responsible to gather that information from sources other than your dissertation. | |

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| **Meeting Number : 06** | **Date of meeting : 11/01/2022** |
| **Issues discussed at the meeting (*to be filled in by Student*)**  **Progress update**  **Citations** | |
| **Supervisor recommendations (*to be filled in by Supervisor*)**  Ok no problem on lack of progress due to assignment, I understand. Make sure to resume and give focus in February.  In regards to citations use citep command to enclose citation in parenthesis. The cite command does not enclose in parenthesis. The difference is that citep is silent, meaning, the reader would not pronounce the citation, the cite command means that the reader would pronounce the citation as part of the paragraph/sentence to be read. | |

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| **Date of Next Meeting** | **Student Signature** | **Supervisor Signature** |
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| **Meeting Number : 07** | **Date of meeting : 07/02/2022** |
| **Issues discussed at the meeting (*to be filled in by Student*)**  **Progress update**  **Literature Review** | |
| **Supervisor recommendations (*to be filled in by Supervisor*)**  Ok, no problem on limited progress. Important to focus more on dissertation from now on.  Literature Review: the NDVI and NDBI sections should be moved to the research methodology. For now add content to the literature review, we shall then focus on the ideal format and structure to adopt. | |

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| **Date of Next Meeting** | **Student Signature** | **Supervisor Signature** |
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| **Meeting Number : 08** | **Date of meeting : 14/02/2022** |
| **Issues discussed at the meeting (*to be filled in by Student*)**  **Progress update**  **Literature Review, Research Methodology**  **Bug fix** | |
| **Supervisor recommendations (*to be filled in by Supervisor*)**  The purpose of a literature review is to document what 3rd party researchers have done and not what you did in this research.  The research methodology should contain the research hypothesis, research questions, research pipeline and the research methods adopted.  Use recommended bug fix to progress. | |

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| **Meeting Number : 09** | **Date of meeting : 21/02/2022** |
| **Issues discussed at the meeting (*to be filled in by Student*)**  **Progress update**  **Literature Review, Research Methodology**  **Code review** | |
| **Supervisor recommendations (*to be filled in by Supervisor*)**  Well done on literature review progress. When ready with draft will review. Use \enquote command for double quotes, for blogs use footnote and url.  Find the correct CRS function for cartopy not OSNI but most probably check for EPSG 4326. Confirm that satellite product is projected to that CRS. | |

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