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| Dundalk Institute of Technology |  | PGDip/MSc in Science in Data Analytics – 2021/22 | |
| Department: Mathematics and Computing | | Contribution : Refer to the document below | |
| Cross Module Project   * Programming for Data Analytics * Statistics * Research Processes for Data Analytics | | Lecturers | Dr Rajesh Jaiswal  Dr Siobhan Connolly  Dr Jack McDonnell |
| **Project Presentation Date : To be decided** | |

The Cross module Project will contribute 40% towards the final marks for Research Process for Data Analytics (RP), 25% for Programming for Data Analytics and 25% for Statistics module. The list of deliverables for the this Project are

* Research Proposal (RP)
* Combined Written Report ( RP + Statistics + Source Code for Programming in Appendix)
* Screen Cast 1 (Programming)
* Source Code (Programming)
* PowerPoint Presentation

# The table below summarises the deliverables and their respective contents for each module

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Deliverables | Research Processes | Statistics | Programming | Due Date |
| Research Proposal | Background Research, Problem Statement, Research questions and objectives in context of chosen project, Proposed Plan and design of lifecycle stages, risk and ethical consideration |  |  | Completed |
| Combined Written Report | This written report should detail the formulation and subsequent addressing of research questions and include description of various stages of project implementation in context with a chosen research process such as CRISP-DM. Students will include reflective journal within this report. Student should also include discussion of existing solutions, justification of chosen methodologies for descriptive analysis on data, data description, formulating of hypothesis based on graphics and summary stats, Data Analysis, interpretation and conclusion with future works. Your source code used within the project will append the written report. | | | 10th December, 2020 |
| Screen Cast 1 |  |  | Screen Cast to demonstrate the working of source code |  |
| Source Code |  |  | Submission of labelled source code |  |
| Presentation |  |  |  | 11th December |

More information on contents and marks breakdown/contribution for individual deliverables will be provided by module lectures.

Distribution of 40% contribution for Research Processes module is given below.

* Project Proposal 10%
* Combined Written Report 30%

Grade distribution for Combined written Report (Research Process in Data analytics). You will be marked on the following

* **Abstract and Introduction – 15%**

Project description, background, addressing of research questions, objective formulation, description of structure of report

* **Data Analytics life Cycle – 45%**

Description of various stages of project implementation in context with a chosen research process such as CRISP-DM.

* **Evidence of reflective journal (portfolio) – 5%**

How effectively you have followed the Gantt chart

* + **Conclusion and Future work – 5%**
* **Document Structure, writing and ethical & risk consideration 20%**
* **Formatting and grammar – 5%**
* **Q&A – 5%**