# *Research Design and Proposal Writing*

**Assignment #1**

# Due Date: *3rdMay 2024, 12 noon*

This assignment is an individual assignment and counts for 100% of your overall mark.

The goal of the assignment is to produce a Project Proposal, you need to do each of the following tasks (35%), and almost complete the proposal (65%).

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| **Week 1:** | * Write a 20-50 word summary your project idea |
| **Week 2:** | * Use this [Checksheet](http://damiantgordon.com/CheckSheets/ScienceArticleCheckSheet.doc) to review [this Article](http://www.damiantgordon.com/Courses/RDPW/Week2/Smile_intensity_in_photographs.pdf) |
| **Week 3:** | * Locate two papers that are relevant to your research topic, and review each of them with 5 sentences:   + 1 sentence on the Research Question of the Paper   + 2 sentences on the Experiment in the Paper   + 2 sentences on the Results of the Paper |
| **Week 4:** | * Locate three papers that are relevant to your research topic, and review each of them with 5 sentences:   + 1 sentence on the Research Question of the Paper   + 2 sentences on the Experiment in the Paper   + 2 sentences on the Results of the Paper |
| **Week 5:** | * Write a survey of 5-10 questions that you could use as part of your experiment. |
| **Week 6:** | * Locate three papers that are relevant to your research topic, and review each of them with 5 sentences:   + 1 sentence on the Research Question of the Paper   + 2 sentences on the Experiment in the Paper   + 2 sentences on the Results of the Paper |
| **Week 7:** | * Write an abstract of your experiment, answer these questions:   + What is the area of study?   + What is the problem being tackled?   + What does the literature say?   + How will you tackle the problem?   + How will you implement the solution?   + What results will you get? |
| **Week 8:** | * Write a 50-100 word Research question |
| **Week 9:** | * **NO CLASS, so nothing required** |
| **Week 10:** | * Write a 250-350 word summary of your experiment design |
| **Week 11:** | * Work on Proposal |
| **Week 12:** | * Work on Proposal |

**The Title of My Proposal**

My Name, My Student Number

# Background, Context and Scope

This section is so of the existing research for my project. It also situates the project in the broader computer science domain, and It also sets the parameters of the project. [250-300 words]

# Problem Description

Explaining the project, with literature and an experiment description. [250-300 words]

## 2.1. Approaches to Solving the Problem

Some literature [750-800 words]

## 2.2 Gaps in Research

What’s missing? [150-200 words]

# Research Question

A short section [50-100 words]

# Hypothesis

H0 (Null Hypothesis): This is no relationship between…

HA (Alternative Hypothesis): This is a relationship between…

[50-100 words]

# Design and Build

How will be project be implemented? [550-600 words]

# Evaluation

How will you measure the project? [200-250 words]

# References

[1] Creswell, J. W., & Poth, C. N. (2016). *Qualitative inquiry and research design: Choosing among five approaches*. Sage publications. [AT LEAST 20 REFERENCES]

# Activities

Including a Gannt Chart

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| **Submission of Assignment:**  You are required to electronically submit your assignment on or before the due date. To electronically submit your assignment, e-mail it to [Damian.X.Gordon@tudublin.ie](mailto:Damian.X.Gordon@tudublin.ie) with the subject heading: "RDPW Assignment 1" as well as submitting on Brightspace. |

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| **Lateness Policy**:  If you submit your assignment late, you will be marked normally, and then I will multiple your result by 0.6.  **Plagiarism Policy**:  If I catch you plagiarising, I will be my upmost to see that you are kicked off the course. |