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|  | **THE UNIVERSITY OF SHEFFIELD Department of Electronic and Electrical Engineering**  **3rd Year Individual Project**  **Project Initialisation Document** | | | |  |
| **Student Name** | | Yａｂ | | | |
| **Project Title** | |  | | | |
| **Supervisor** | |  | **Second Marker** |  | |

**Description and aims of Project:**

**Project Specification:**

*This is the specification for your project. At the end of the project, your achievement will be marked against it. The specification should be produced with the help of your supervisor. The specification should contain enough detail for another person to carry out the work having read it. It should not contain descriptions of any required theory. It should not contain descriptions of any required theory, consisting of no more than 1 page. Remember, this is a project specification not a project description.*

**Background Theory:**

*This section should include the relevant background theory related to your project and should be concise – no more than 1 page. The background research included in this section should be from peer-reviewed material (IEEEexplore for example) and be referenced accordingly (see Reference section below).*

**Project Schedule:**

*Identify the main component headings (e.g. literature review, testing) and label them with numbers or letters. Insert the labels in the left hand column of the Gantt chart and indicate the projected time span of each component in* ***weeks*** *using ‘Start week’ and ‘Duration’. You can find the Gantt chart template (in excel) on Blackboard. This is just a suggested template and you may use your own Gantt chart design.*

*A common mistake here is to not give enough detail. i.e. having just three components of Research, Design, Test shows that you have not given sufficient thought to the execution of the project. Also indicate any interdependencies between components and try to identify the critical path for the project. You should also include milestones in your Gantt chart. Examples have been included here.*

**Gantt chart**



*You may also include some descriptions or details on each task you identified in the Gantt chart. For example:*

*T0: Discussion with supervisor to determine the project aims/specifications etc.*

*T1: Reading materials on background theory and literature review.*

*T2: PID preparation and writing.*

*T3: Learn simulation software, simulation on circuit A to achieve specification xx.*

**References:**

*Reference should be IEEE referencing style. Web references should be kept to a minimum as they are usually not peer-reviewed.*

1. W. Kempton, J. Tomic, “Vehicle-to-grid power implementation: From stabilizing the grid to supporting large-scale renewable energy”, Journal of Power Sources, vol. 144, no. 1, pp. 280-294, June, 2005.

**Risk Register:**

*Identify the key problems that could prevent your project from completing on time and associate a likeliness to occur and risk level impact to your project (Low/Medium/High). How can these risks be reduced/mitigated?* ***In addition, you should consider the risk associate with the pandemic. You should include a backup plan to show how your project could be modified in the event of University lockdown in this section. If you think your project will not be affected by the pandemic/further lockdown, you should include the reason(s) why you think this is the case.***

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| --- | --- | --- | --- | --- |
|  | **Description of Risk** | **Risk evaluation (L/M/H)** | **Chance of risk occurring (L/M/H)** | **Mitigation of Risk** |
| 1 | Loss of data (USB key) | M | L | Multiple back-ups in multiple locations |
| 2 |  |  |  |  |
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***Back-up plan details for the project (in the event of a lockdown):***

*Provide detailed descriptions on your back-up plan here. If you think your project will not be affected, you should include the reason(s) why you think this is the case.*