

For use by the Project lecturer	Approved	Revision required
Feedback		

To be completed by the student				
PROJECT PROPOSAL 2022			Project no	Revision no
Title	Surname	Initials	Student no	Study leader (title, initials, surname)
Project title				

Language editor name	Language editor signature 
Student declaration I understand what plagiarism is and that I have to complete my project on my own.	Study leader declaration This is a clear and unambiguous description of what is required in this project. Approved for submission (Yes/No)
Student signature 	Study leader signature and date 

1. Project description
 What is your project about? What does your system have to do? What is the problem to be solved?

2. Technical challenges in this project

Describe the technical challenges that are *beyond* those encountered up to the end of third year and in other final year modules.

2.1 Primary *design* challenges

2.2 Primary *implementation* challenges

3. Functional analysis

3.1 Functional description

Describe the design in terms of system functions as shown on the functional block diagram in section 3.2. This description should be in *narrative format*.

3.2 Functional block diagram

4. System requirements and specifications

These are the core requirements of the system or product (the mission-critical requirements) in table format IN ORDER OF IMPORTANCE. Requirement 1 is the most fundamental requirement.

	Requirement 1: the fundamental functional and performance requirement of your project	Requirement 2	Requirement 3
1. Core mission requirements of the system or product. Focus on requirements that are core to solving the engineering problem. These will reflect the solution to the problem.			
2. What is the target specification (in measurable terms) to be met in order to achieve this requirement?			
3. Motivation: how or why will meeting the specification given in point 2 above <i>solve the problem?</i> (Motivate the specific target specification selected)			
4. How will you demonstrate at the examination that this requirement (point 1 above) and specification (point 2 above) has been met?			
5. Your own design contribution: what are the aspects that <i>you will design and implement yourself</i> to meet the requirement in point 2? If none, remove this requirement.			
6. What are the aspects to be taken off the shelf to meet this requirement? If none, indicate "none"			

System requirements and specifications page 2

	Requirement 4	Requirement 5	Requirement 6
1. Core mission requirements of the system or product. Focus on requirements that are core to solving the engineering problem. These will reflect the solution to the problem.			
2. What is the target specification (in measurable terms) to be met in order to achieve this requirement?			
3. Motivation: how or why will meeting the specification given in point 2 above solve the problem? (Motivate the specific target specification selected)			
4. How will you demonstrate at the examination that this requirement (point 1 above) and specification (point 2 above) has been met?			
5. Your own design contribution: what are the aspects that you will design and implement yourself to meet the requirement in point 2? If none, remove this requirement.			
6. What are the aspects to be taken off the shelf to meet this requirement? If none, indicate "none"			

System requirements and specifications page 3

	Requirement 7	Requirement 8	Requirement 9
1. Core mission requirements of the system or product. Focus on requirements that are core to solving the engineering problem. These will reflect the solution to the problem.			
2. What is the target specification (in measurable terms) to be met in order to achieve this requirement?			
3. Motivation: how or why will meeting the specification given in point 2 above <i>solve the problem?</i> (Motivate the specific target specification selected)			
4. How will you demonstrate at the examination that this requirement (point 1 above) and specification (point 2 above) has been met?			
5. Your own design contribution: what are the aspects that <i>you will design and implement yourself</i> to meet the requirement in point 2? If none, remove this requirement.			
6. What are the aspects to be taken off the shelf to meet this requirement? If none, indicate "none"			

System requirements and specifications page 4

	Requirement 10	Requirement 11	Requirement 12
1. Core mission requirements of the system or product. Focus on requirements that are core to solving the engineering problem. These will reflect the solution to the problem.			
2. What is the target specification (in measurable terms) to be met in order to achieve this requirement?			
3. Motivation: how or why will meeting the specification given in point 2 above solve the problem? (Motivate the specific target specification selected)			
4. How will you demonstrate at the examination that this requirement (point 1 above) and specification (point 2 above) has been met?			
5. Your own design contribution: what are the aspects that you will design and implement yourself to meet the requirement in point 2? If none, remove this requirement.			
6. What are the aspects to be taken off the shelf to meet this requirement? If none, indicate "none"			

5. Field conditions

These are the REAL WORLD CONDITIONS under which your project has to work and has to be demonstrated.

	Field condition 1	Field condition 2	Field condition 3
Field condition requirement. In which field conditions does the system have to operate? Indicate the one, two or three most important field conditions.			
Field condition specification. What is the specification (in measurable terms) for this field condition?			

6. Student tasks

6.1 Design and implementation tasks

List your primary design and implementation tasks in bullet list format (5-10 bullets). These are *not* product requirements, but *your* tasks.

6.2 New knowledge to be acquired

Describe what the theoretical foundation to the project is, and which new knowledge you will acquire (*beyond* that covered in any other undergraduate modules).