

CN6000

Final Year Project 2025/26

Topic 1

Introduction to the Project Module



Lesson Content

- What is the project module about?
- Project information
 - Module Welcoming message
 - Module texts
 - Project requirements
 - Assessment
 - Milestones
 - Supervision
 - Project titles
 - Dissertation structure

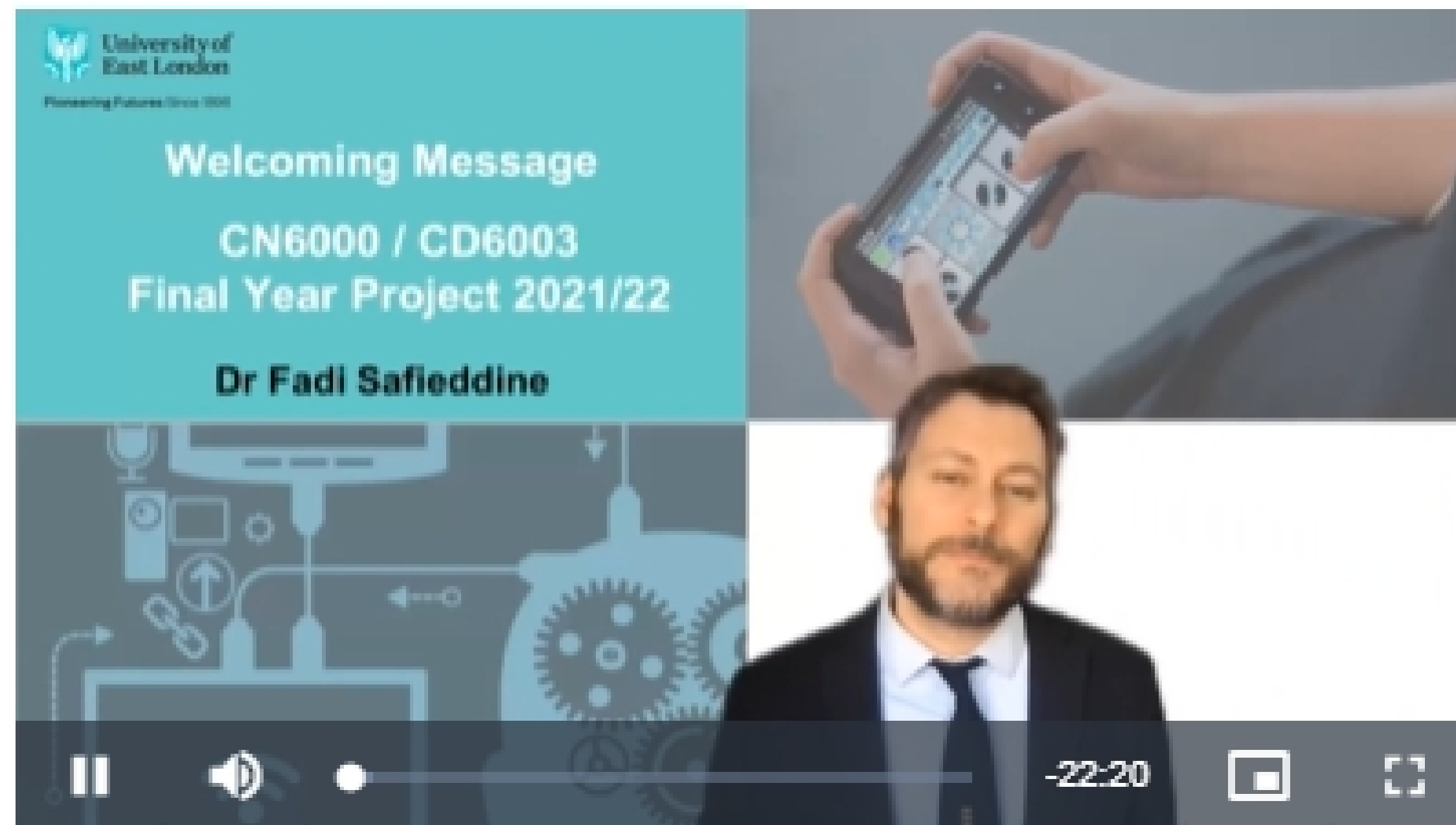


The Final Year Project (Watch the Introduction Video)

- **The most important module of your degree**
 - 40 credits, so a substantial piece of work
 - Two terms – starts now and ends on 8th of May 2026
 - ‘Speaks’ volumes about your capacity to manage your time, study independently, use your judgement etc., skills that employers want!
- **What does it involve?**
 - Projects are unique, so no two that are the same
 - All involve the solution of a real world problem
 - All require the application of a range of skills that you have acquired over the course of your degree programme.
 - Some involve software or application development, others involve mathematical modelling or empirical investigation, but all require a systematic, methodical approach.

Please watch the “Introductory Video”

Welcoming message to the module: 22mins



Module Organisation

- Weeks 1 – 10, Term 1 (1st Oct – 19th Dec 2025)
 - Lecture = 2 hourw session followed with Catch up.
- Session content is outlined in the study guide
- Please check both Moodle and Teams regularly



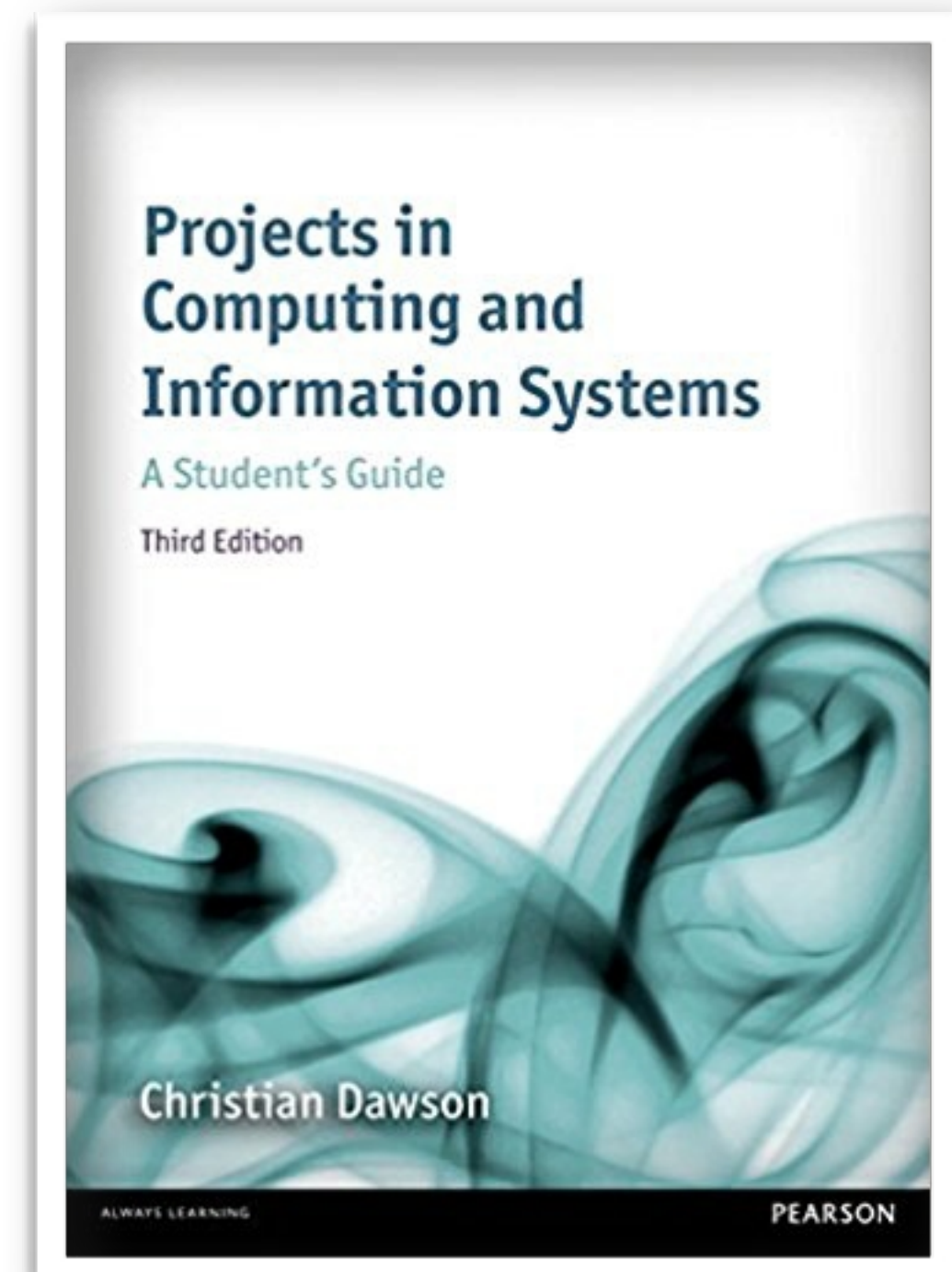
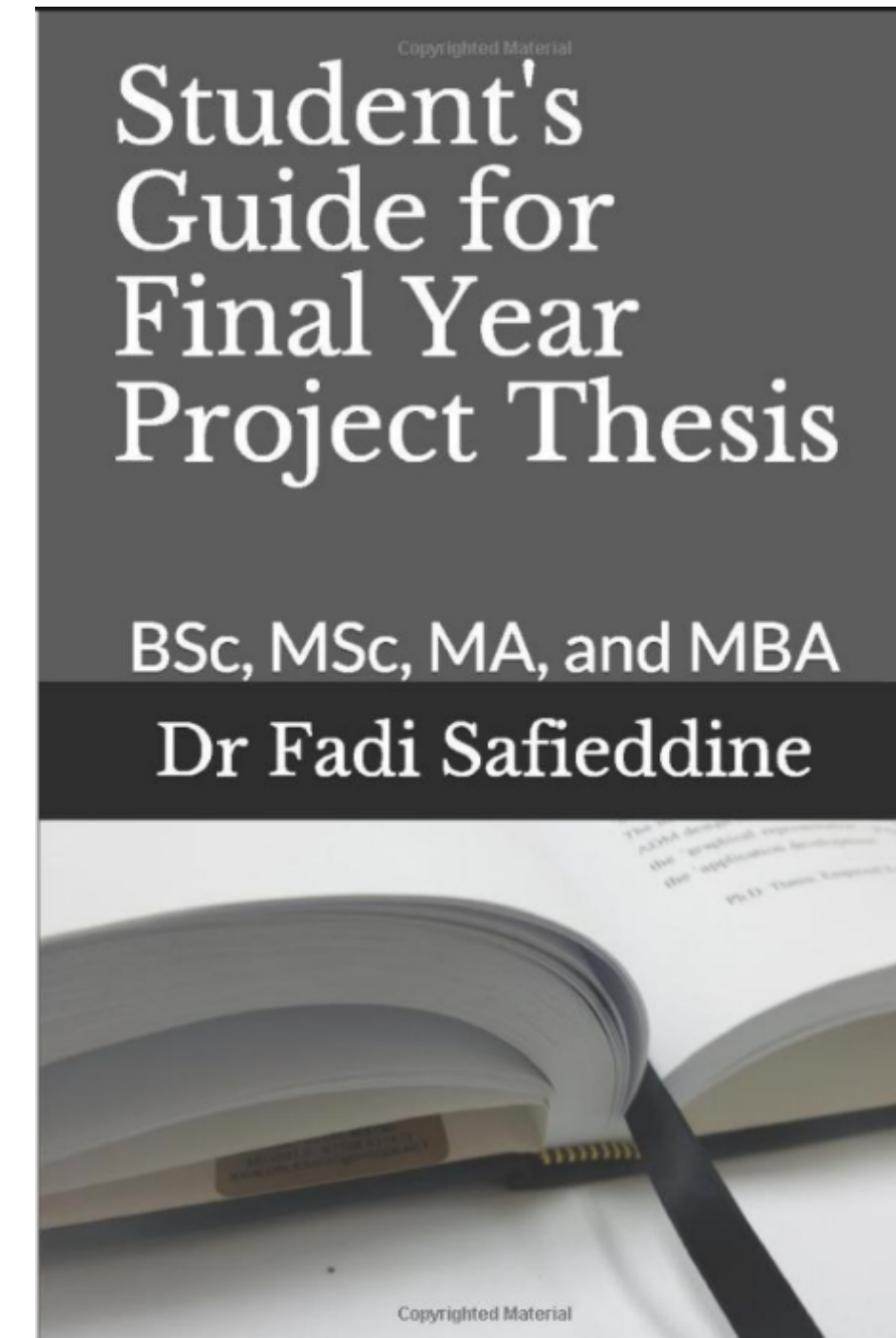
Module Texts

Core

- ***Safieddine, F. (2021) Student's Guide for Final Year Project Thesis: BSc, MSc, MA, and MBA. 4th ed. New York, USA: CreateSpace Publishing.***
- ***Dawson, C. W. (2015) Projects in Computing and Information Systems: A Student's Guide. 3rd ed. Harlow, Essex: Pearson Education.***

Recommended

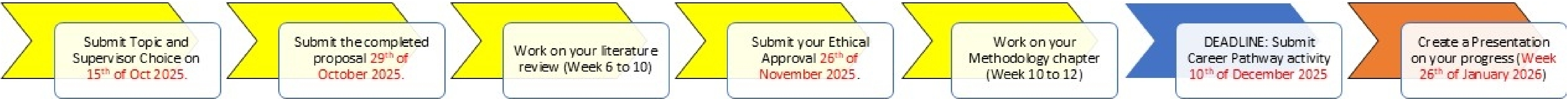
- Cottrell, S. (2017) Critical Thinking Skills: Effective Analysis, Argument and Reflection. 3rd edn. Basingstoke: Palgrave.
- Denzin, N. K. and Lincoln, Y. S. (2013) The Landscape of Qualitative Research. 4th ed. London: SAGE.
- Murray, N. and Hughes, G. (2008) Writing Up Your University Assignments and Research Projects: A Practical Handbook. Maidenhead, UK: Open University Press
- Pears, R. and Shields, G. (2019) Cite Them Right: The Essential Referencing Guide. 11th edn. Basingstoke: Palgrave Macmillan.



Assessment Deadlines



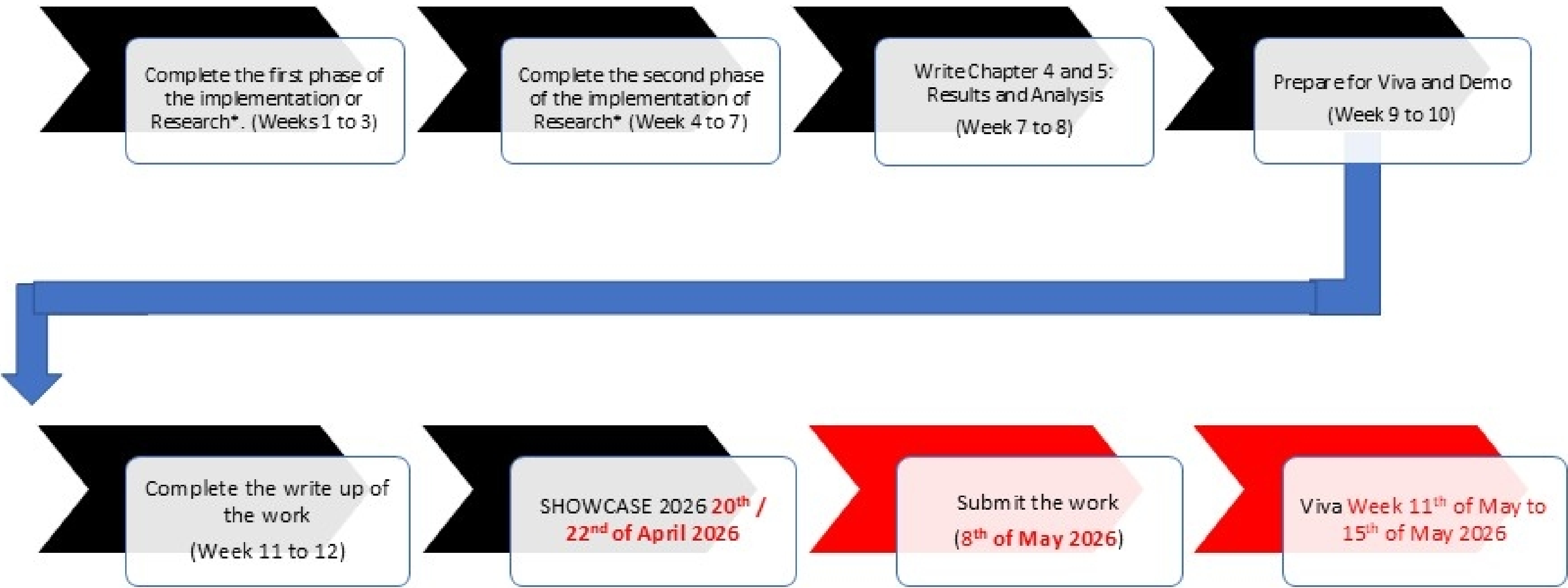
Term A:



Assessment Deadlines



Term B:



Break 1: Any questions about the dates and project?

Supervisors:

How do I get a supervisor?

1. Read the 'Staff Expertise and Areas of Interest 2025' document on Moodle.
2. When you see a topic you are interested in, register your interest using MS Excel.
3. You can also see the list of areas of expertise of staff members. If you think that your own project matches one of these areas, you are advised to contact the corresponding person as soon as possible.
4. After you get their approval on topic ideas, email the staff member with a draft proposal. The proposal template is on Moodle and we will be explaining it next week.
5. Before having your first meeting with your potential supervisor you must have a proposal for your project.

Deadline: **19th October 2025**

Supervisors:

What to state in the email?

- The title of your project.
- The aim of your project,
 - it must be brief,
 - it should contain a statement of what you want to have achieved by the end of your project,
- The reason behind this choice (rationale).
 - you must describe **WHY** this project is **WORTH** conducting.
- Check the template on Moodle.

Supervisors:

When Should I Start Writing my Proposal? **Now!!**

- You need this document when you have your first meeting.

Is there a form/template to use?

- Yes. The form is available on the Moodle site.
There are also samples of initial proposals in the study guide for you to read.

Supervisors:

- If you wait for too long before filling the form(or if you do not fill the form at all), then you will be brute force-assigned a supervisor.
- That is, you will be paired with a member of staff who still has some slots available for supervision. The interests and expertise of that staff member may not match yours!

TO FIND A SUPERVISOR, YOU NEED TO BE PROACTIVE

Optimising your Supervision Time

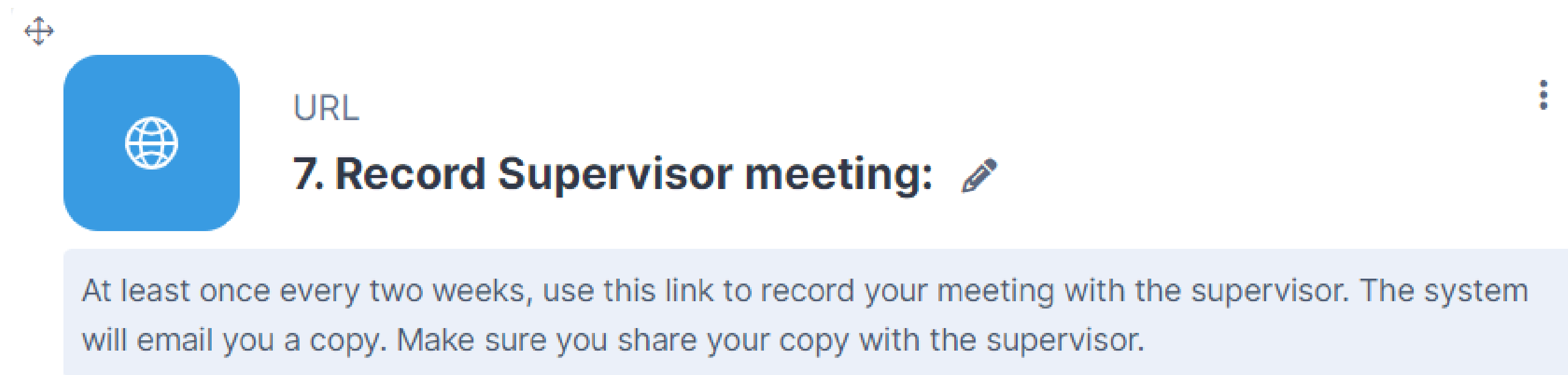
- **Your project is your responsibility!**
- Your supervisor
 - is to provide you with academic guidance but **NOT** to do your project for you,
 - is **NOT** obliged to chase you if you fail to keep appointments with him/her.
- There is a strong correlation between attendance, participation in supervision, and a student's project mark.

Optimising your Supervision Time (cont.)

- Your supervisor has a maximum of 12 hours over the period of two semesters to supervise you. **Your time with your supervisor is limited.** It is very important therefore that you make the most of this time.
- You should also come to an agreement with your supervisor as to how you could best benefit from his/her academic advice, and you should mutually agree on the time and date of meetings **in advance.**
- After every meeting with your supervisor, you should **submit a short report** (action plan). You will get a copy for your records, and you should email a copy to your supervisor.
- There is a link on Moodle that can help you keep track of these reports.

Recording your supervisor meetings

- Once you are allocated a supervisor, and your meetings start, please record your meeting using the link on Moodle.
- Link on top of Moodle page:



let us take a look.

Break 2:

- Any questions about the supervisors, topics, and supervisor process?

Your Proposal

- Once you are allocated a supervisor, you must discuss with them your proposal.
- We will cover the proposal process in detail, next week
- The study guide contains examples of proposals

Ethical Approval

- You will need approval for any project activities involving human participants, or recruitment of human participants
- Approval is granted by the College Research Ethics Committee
 - Two forms - A and B (further details in the study guide)
 - Form B is adequate in most cases – undergraduate computing projects are generally low risk
 - Deadline for form submission: **26th November 2025**
- Further coverage of ethical issues in week 7

Start thinking ahead!!

- The biggest component is your documentation
- The structure and style is mostly FIXED!
- Have a clear vision of what is coming up.

Your documentation structure

- Front Cover (Title Page)
- Abstract
- List of Content
- Chapter 1: Introduction
- Chapter 2: Literature Review
- Chapter 3: Methodology
- Chapter 4: Results/Findings
- Chapter 5: Analysis/Discussion
- Chapter 6: Conclusion
- References
- Appendix

Your documentation structure

- Front Cover (Title Page)
- Abstract
- List of Content
- Chapter 1: Introduction
- Chapter 2: Literature Review
- **Chapter 3: Case Study**
- Chapter 3: Methodology
- Chapter 4: Results/Findings
- Chapter 5: Analysis/Discussion
- Chapter 6: Conclusion
- References
- Appendix



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Your documentation structure

- Front Cover (Title Page)
- Abstract
- List of Content
- Chapter 1: Introduction
- Chapter 2: Literature Review
- **Chapter 3: Case Study**
- Chapter 4: Methodology
- Chapter 5: Results/Findings
- Chapter 6: Analysis/Discussion
- Chapter 7: Conclusion
- References
- Appendix



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Your Tasks for week 1

- Review the list of supervisors and select the topic and supervisor you want.
- Contact your choice of supervisor with topic and a short description of your topic.
- Once you get approval then complete the form registration of your topic on Moodle.
- Wait till next week so you can see HOW we write objectives.
- The deadline is the 16th of October, but the sooner you start, the better.



1. Available Supervisors for Undergraduate Students for 2024

The following supervisors have reached or exceeded their limit and are no longer available:

- TBC



2. Download MS Excel sheet to register your details, Topic, and Supervisor.



3. Submit your MS Excel Sheet. Format File name: Family_Name(U123456)

Opens: Wednesday, 4 October 2023, 12:00 PM

Due: Monday, 30 October 2023, 12:00 PM

Your Tasks for week 1


Step 1: View the list of supervisors:

Step 2: Decide on your topic.

Step 3: Download the Excel Form:

Next Step:

Step 4: Fill the first five sections

J17																			
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	
1	Project Details																		
2																			
3	Student Name																		
4	Student Number																		
5	Programme of Study																		
6	Project Title																		
7	Supervisor																		
8	Second Marker																		
9	Third Marker																		
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11	Academic Marker (Viva)																		
12																			
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14																			

Next Step:

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Your Tasks for week 1

Step 5: Save the file with your details Student_Family(U1223457)

↑

📁 C: > MyWork > UEL Winter 2021_22 > Final Year Project > 2022 Material > New Forms

Safieddine(U4323231)

Excel Workbook (*.xlsx) ▼

📁 Save

[More options...](#)

Your Tasks for week 1

Step 6: Upload the file on Moodle. I will do my best to allocate you to your preferred supervisor

- Submit your MS Excel Sheet. Format File Name: Family_Name(U123456)



**3. Submit your MS Excel Sheet. Format File name:
Family_Name(U123456)**

Opens: Wednesday, 4 October 2023, 12:00 PM

Due: Monday, 30 October 2023, 12:00 PM

The Project Proposal – What Is It?

A concise statement (usually one page of A4) that identifies

- **What** you want to achieve by the end of your project (a.k.a. the project aim)
 - A short statement (no more than two sentences)
- **How** you intend to achieve your aim (a.k.a. the project objectives)
 - The deliverables required to achieve your aim
 - The number of objectives is not fixed but ordinarily will include objectives to report on the literature, deal with the analysis/design/implementation of your system and the evaluation of your project.
- **Why** this project is worth undertaking (a.k.a. the project rationale)

The Project Proposal – Why Is It Important

The project proposal is needed for the following reasons:

1. So that we know roughly what it is that you are trying to achieve, why you are trying to achieve it and that it is appropriate for a final year project.
2. So that you know roughly what it is that you are trying to achieve and, hence, you can start to plan your time.

Bear in mind also that your summative assessments are based upon your proposal.

Have you done what you said you were going to do?

Project Proposal

- This should describe the aim of your project (the *what*) and the rationale (the *why*).
- Please use the template available via Moodle
- Look at the examples in the study guide as an indicator of the level of detail required
- **Deadline on Moodle:**
 - **29th Oct 2025** (Final Proposal)

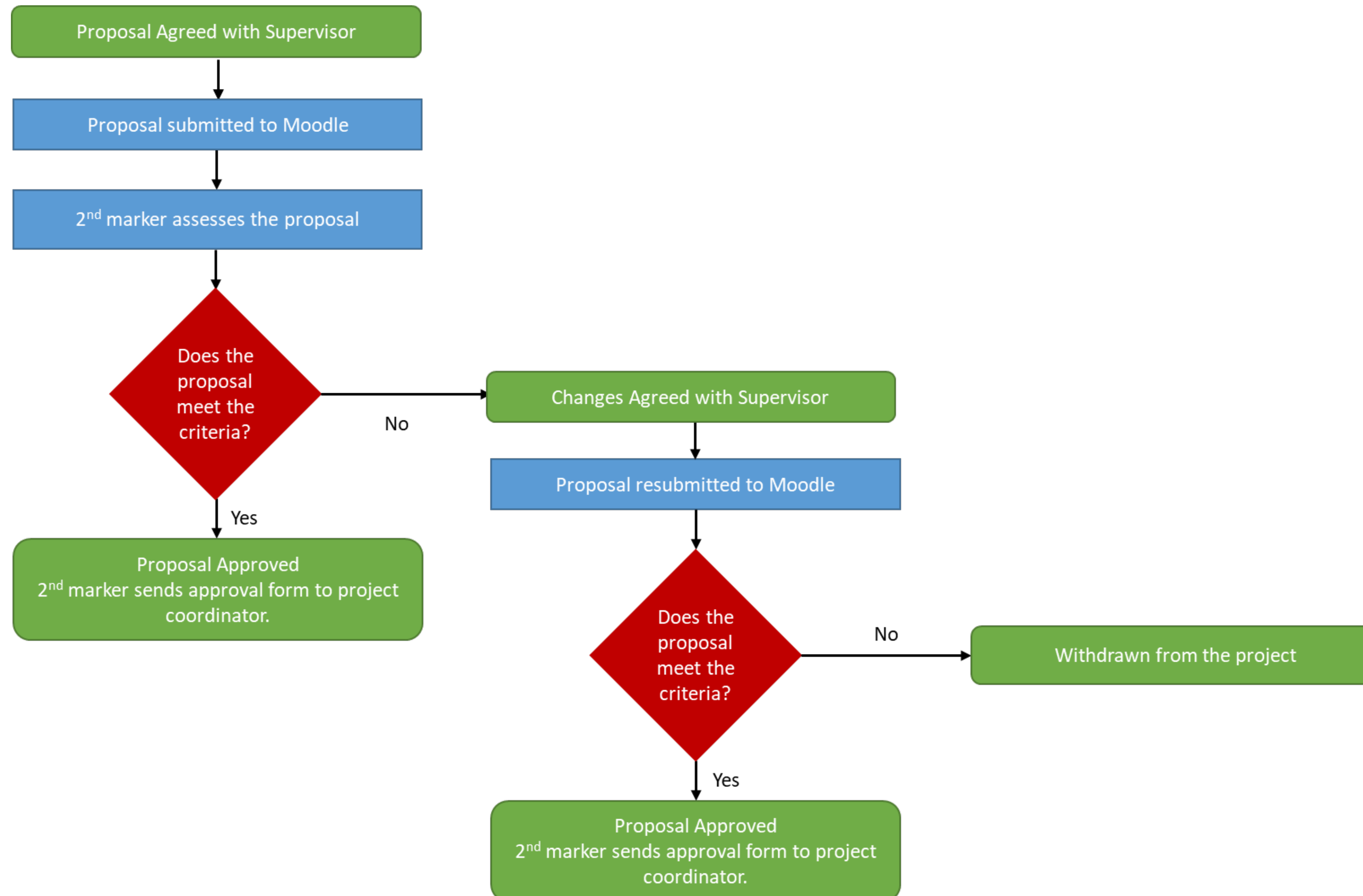


The Project Proposal

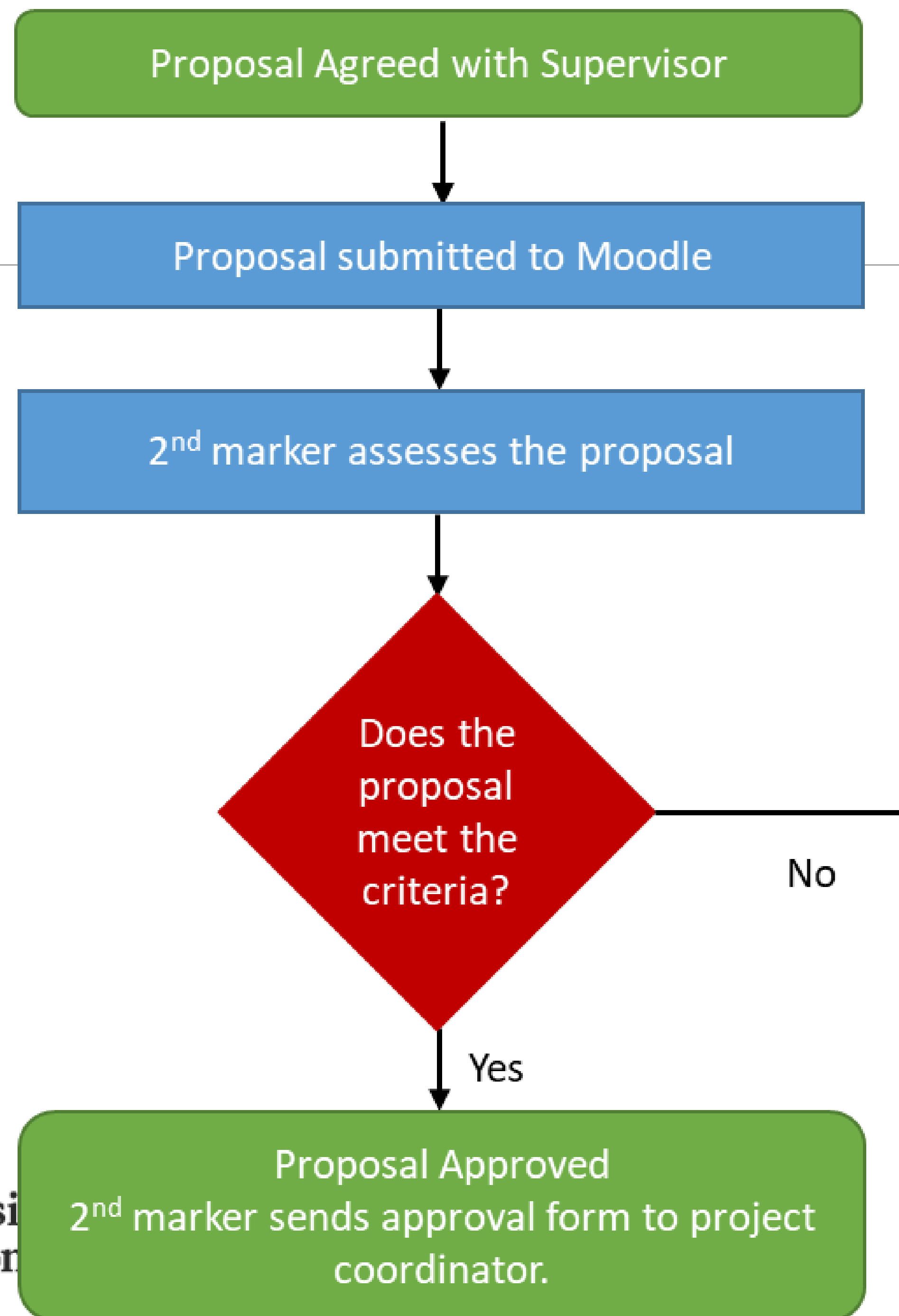
- Includes the aim, rationale **and objectives.**
- The initial proposal evolves into the final proposal typically via a series of iterations.
- Please use the template available via Moodle
- Look at the examples in the study guide for the level of detail required.



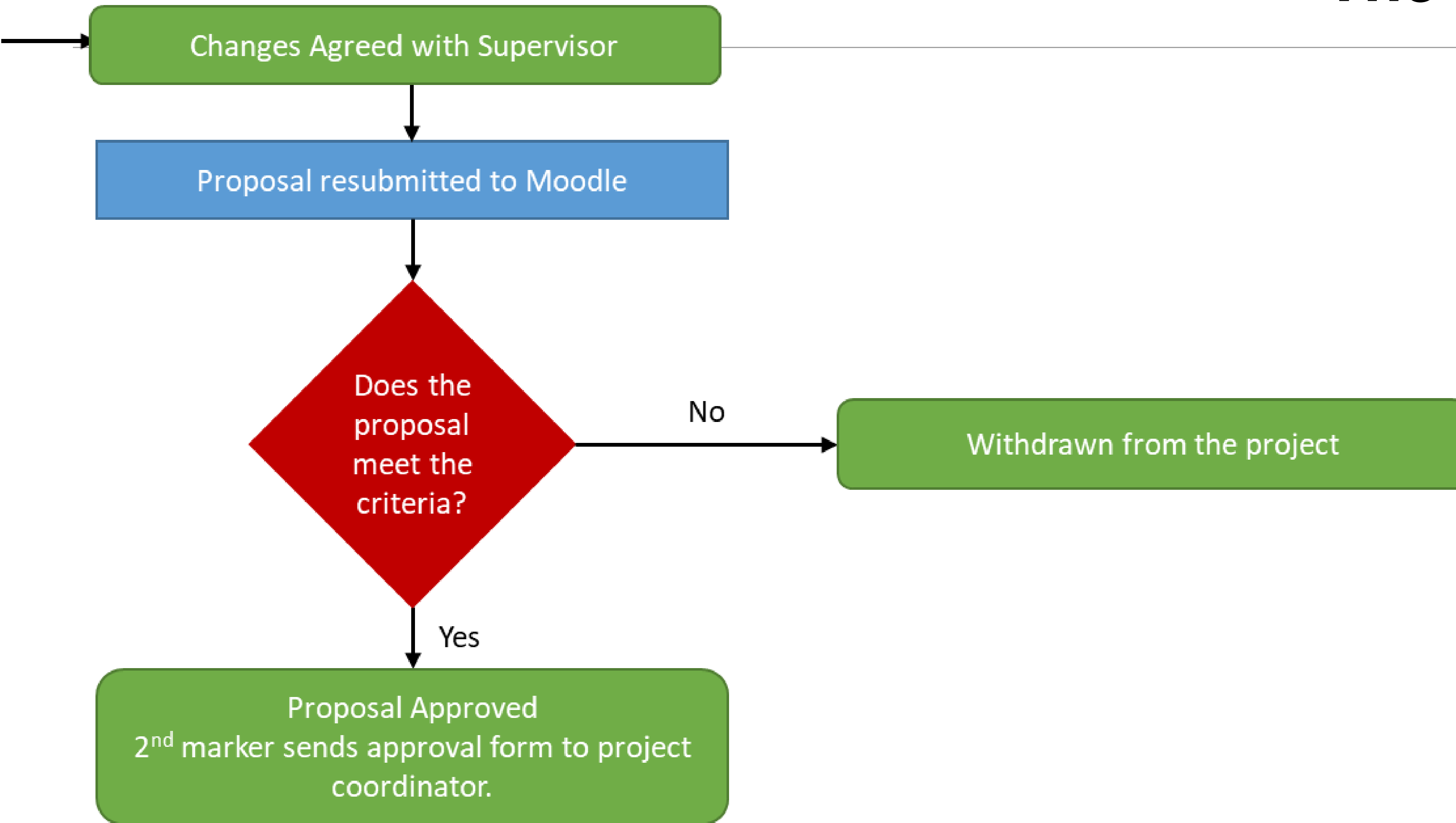
The Approval Process



The Approval Process



The Approval Process



Project Requirements

Criteria	Yes or No
Does the project proposal provide evidence that the project will contain both a theoretical and a practical component? (The project must research a chosen topic, identify a problem and then develop a solution to that problem.)	
Is the proposed project consistent with the aims and learning outcomes of the programme the student is studying on?	
Is the proposed project at an advanced level (i.e. topics/issues appropriate to level 6 study)? Projects that involve little more than the application of level 4 skills (e.g. the development of an Access database or the creation of static HTML web pages) are not appropriate.	
Does the proposed project involve the solution of a problem by the application of information technology ? The problem should meet a real need in a wider context. The project should analyse the problem and design and implement one or more solutions using a systematic approach and appropriate tools and techniques.	
Does the proposed project contain an element of originality ? The project should not be repeating the work of others or trying to solve a problem which has been solved before unless the student is going about it in a new or novel way.	
Is the project proposal feasible in terms of time, resources and the skills at the student's disposal?	

Project Constraints

Constraints	Yes or No
Is the practical element of the project based on evaluating tools ? Compare and contrast projects that simply evaluate tools and their performance are not sufficiently complex for final year projects. Such projects will not meet the practical component requirements of the module.	
Does the project propose simple data collection and data analysis for the practical component? Projects that propose simple data collection and data analysis are not sufficiently complex for final year projects. Such projects will not meet the practical component requirements of the module.	

Identifying a Good Topic:

- Have you selected your topic already?
- If not, did you not check the “Supervisor’s expertise’ page to get ideas?
- Use the breakout study space this evening to meet each other and brainstorm ideas.
- Email them to your choice of supervisor and ask them to select what they prefer.

What do we mean by having Theoretical and Practical elements

- **Practical:**
 - Building a programme, database, app, data dashboard, perform testing...etc
 - It has to show that you went BEYOND the lessons we gave you.
 - You had to learn on your own because that is the real world out there.

What do we mean by having Theoretical and Practical elements

- **Practical:**
 - Building a programme, database, app, data dashboard, perform testing...etc
 - It has to show that you went BEYOND the lessons we gave you.
 - You had to learn on your own because that is the real world out there.
- **Theoretical:**
 - *Two elements:* Researching the current literature & Research methodology.
 - Research current literature (Covered in lesson 4 and 5)
 - Research Methodology (Covered in lesson 6)

Brief explanation of Theoretical Research

- **Stage 1:** Research current literature on this subject.
 - Books
 - Journals
 - Conference papers
 - Websites
 - *Outcome:* A chapter called 'Literature Review'

Lesson 3

Brief explanation of Theoretical Research

- **Stage 2:** Research Methodology
 - You have a choice:
 - Quantitative
 - Qualitative
 - Mix of both



Brief explanation of Theoretical Research

- **Stage 2:** Research Methodology
 - **Quantitative:** Usually involves using a survey to gather opinions, views, or data.
 - **Example:** See if people like a new software idea? What a group of employee think of a new data dashboard? Analysis of data use of a particular app?
 - Usually, we expect it to collect data from 50 to 100 respondent / Published datasets.



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Brief explanation of Theoretical Research

- **Stage 2: Research Methodology**
 - **Qualitative:** This usually involves interviews or focus groups with a selected few people who are experts or relevant to your study.
 - **Example:** Interview sample managers of the software to understand their needs. Arrange a focus group of users to understand their dashboard needs. Study feedback reported on given apps of similar topics.
 - Usually, we expect it to collect data from 5 to 10 respondents.

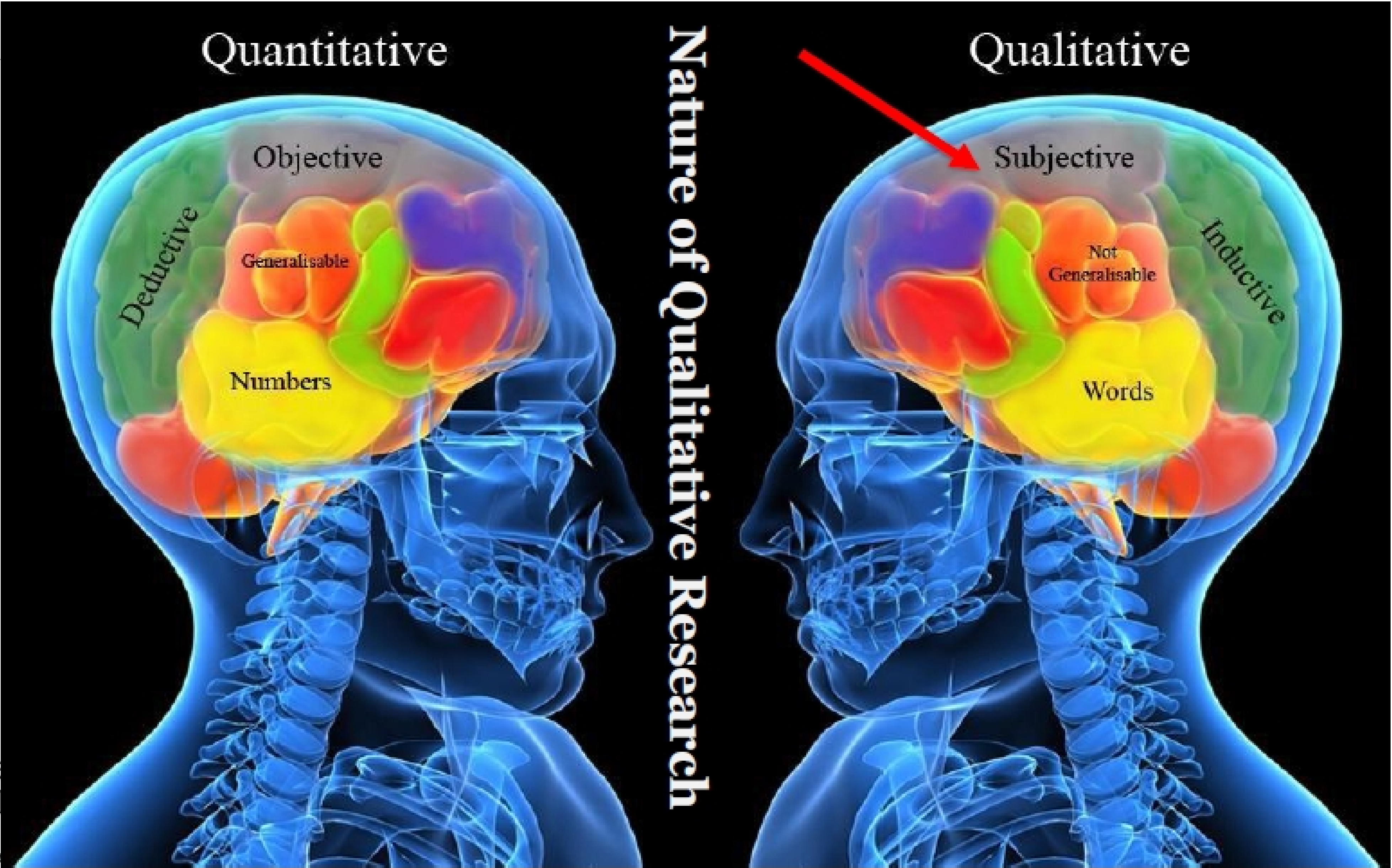


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Qualitative vs. Quantitative



Q&A 2: Theoretical vs Practical

- Brainstorming steps for our project:
 - Learning how to develop an app using PhoneGap.
 - Conducting an interview with students to develop an app that can provide Java programming supporting using A.I.
 - Using qualitative data analysis from interview to understand themes or students' requirements.
 - Review feedback reported on apps about problems or features people would like to have in future development.
 - Test the software to see if it is working well.

Very Important

- How to rewrite aim and objectives for your research project!

Aim and Objectives:

- **Aim** is usually one single sentence that summarises the purpose of the project. What are you hoping to achieve? Let us see some examples:
 - Design and develop software that better manages stocks at an SME using mobile scanners.
 - Create an interactive dashboard to manage stock market predictions using a live data stream.
 - Implement a local health app system for borough of Newham.
- **Notice:** Aim is about 'What' you want to do and not 'How'.

Aim and Objectives:

- **Objectives** has to be multiple lines in bullet points. Minimum of four but as much as eight points. Have to outline how you will do the project.
 - **Strongly recommended to have four elements:**
 1. Theoretical Research
 2. Field Research: Qualitative verse quantitative
 3. Practical: application and testing
 4. Reflection: Going forward

Aim and Objectives:

- **Aim:** Design and develop a software that better manages stocks at an SME using mobile scanners.

Aim and Objectives:

- **Aim:** Design and develop a software that better manages stocks at an SME using mobile scanners.
- **Objectives:**
 - By the end of this project, I will be able:
 - To research different software related to stock management.
 - To research the literature on the design relating to stock management using mobile apps.
 - To conduct a survey of SME business on use of mobile app for stock management.
 - To use quantitative analysis on the survey findings.
 - To design and implement a demo stock management database linked to app frontend.
 - To test app for functionality and design.
 - To reflect on the outcomes, challenges, and suggest future research in this field.

1. Theoretical Research
2. Field Research: Qualitative verse quantitative
3. Practical: application and testing
4. Reflection: Going forward



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Aim and Objectives:

- **Aim:** Create an interactive dashboard to managing stock market predictions using live data stream.

Aim and Objectives:

- **Aim:** Create an interactive dashboard to manage stock market predictions using a live data stream.

- **Objectives:**

- By the end of this project, I will be able:

- To research different stock market prediction formulas in the literature.
 - To research approaches and risks to live data stream connectivity.
 - To design and implement a demo stock market dashboard system.
 - To test system for functionality and report on accuracy.
 - To conduct interview with stock market investors on the design and functionality of the software.
 - To use qualitative data analysis tools and identify themes for improvements.
 - To reflect on the outcomes, challenges, and suggest further development of the software.

1. Theoretical Research
2. Field Research: Qualitative verse quantitative
3. Practical: application and testing
4. Reflection: Going forward



Aim and Objectives:

- **Aim:** Implement a local health app system for borough of Newham.

Aim and Objectives:

- **Aim:** Implement a local health app system for the borough of Newham.
- **Objectives:**
 - By the end of this project, I will be able:
 - To research current literature of use of health apps and their impact.
 - To conduct research of current health facilities and activities in Newham.
 - To use qualitative data tools to identify themes and requirements using focus groups.
 - To design and implement a demo health app for Newham.
 - To test the app for functionality and report on accuracy.
 - To reflect on the outcomes, challenges, and suggest further development of the app.

1. Theoretical Research
2. Field Research: Qualitative verse quantitative
3. Practical: application and testing
4. Reflection: Going forward



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Q&A: Answer the following question

- How many aims and how many objectives usually a dissertation would have?
 - Aims: Usually one but can have more (True/false)
 - Objectives: minimum four but up to eight.

Let's reflect on the objectives: What are the themes?

- **Theoretical:**
 - To research different software related to stock management.
 - To research the literature on the design relating to stock management using mobile apps
 - To research different stock market prediction formulas in the literature.
 - To research approaches and risks to live data stream connectivity.
 - To research current literature of use of health apps and their impact.
 - To conduct research of current health facilities and activities in Newham.

Let's reflect on the objectives: What are the themes?

- **Theoretical:**
 - To research different software related to stock management.
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 - To research approaches and risks to live data stream connectivity.
 - To research current literature of use of health apps and their impact.
 - To conduct research of current health facilities and activities in Newham.

Let's reflect on the objectives: What are the themes?

- **Field Research: Quantitative verses Qualitative:**
 - To conduct a survey of SME business on use of mobile app for stock management.
 - To use quantitative analysis on the survey findings.
 - To conduct interviews with stock market investors on the design and functionality of the software.
 - To use qualitative data analysis tools and identify themes for improvements.
 - To use qualitative data tools to identify themes and requirements using focus groups.

Let's reflect on the objectives: What are the themes?

- **Field Research: Quantitative verses Qualitative:**
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- **Field Research: Quantitative verses Qualitative:**
 - To conduct a survey of SME business on use of mobile app for stock management.
 - To use **quantitative** analysis on the survey findings.
 - To conduct interviews with stock market investors on the design and functionality of the software.
 - To use **qualitative** data analysis tools and identify themes for improvements.
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Let's reflect on the objectives: What are the themes?

- **Field Research: Quantitative verses Qualitative:**
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 - To use **quantitative** analysis on the survey findings.
 - To conduct interviews with stock market investors on the design and functionality of the software.
 - To use **qualitative** data analysis tools and identify themes for improvements.
 - To use **qualitative** data tools to identify themes and requirements using focus groups.

Bold: Approach
Underlined: Method

Let's reflect on the objectives: What are the themes?

- **Practical and Testing:**
 - To design and implement a demo stock management database linked to app frontend.
 - To test app for functionality and design.
 - To design and implement a demo stock market dashboard system.
 - To test system for functionality and report on accuracy.
 - To design and implement a demo health app for Newham.
 - To test the app for functionality and report on accuracy.

Let's reflect on the objectives: What are the themes?

- **Practical and Testing:**
 - To design and implement a demo stock management database linked to app frontend.
 - To test app for functionality and design.
 - To design and implement a demo stock market dashboard system.
 - To test system for functionality and report on accuracy.
 - To design and implement a demo health app for Newham.
 - To test the app for functionality and report on accuracy.

Let's reflect on the objectives: What are the themes?

- **Reflection:**
 - To reflect on the outcomes, challenges, and suggest future research in this field.
 - To reflect on the outcomes, challenges, and suggest further development of the software.
 - To reflect on the outcomes, challenges, and suggest further development of the app.

Let's reflect on the objectives: What are the themes?

- **Reflection:**
 - To reflect on the outcomes, challenges and suggest future research in this field.
 - To reflect on the outcomes, challenges and suggest further development of the software.
 - To reflect on the outcomes, challenges and suggest enhanced development of the app.

Break four: organise these themes in the correct order:

- To design and implement a demo....
- To test....
- To research.....(background from literature and books)
- To reflect on the results/outcome....
- To conduct (survey, interview, focus group, observation, data analysis...etc)
- To use (qualitative/quantitative) data analysis....

Summary of objective themes:

- To research.....(background from literature and books)
- To conduct (survey, interview, focus group, observation, data analysis...etc)
- To use (qualitative/quantitative) data analysis....
- To design and implement a demo....
- To test....
- To reflect on the results/outcome....

Summary of objective themes:

- To research.....(background from literature and books)
- To conduct (survey, interview, focus group, observation, data analysis...etc)
- To use (qualitative/quantitative) data analysis....
- To design and implement a demo.....
- To test....
- To reflect on the results/outcome....

Your First STEP into research!

- Research is arguably the **essence** of completing any university degree.
- Being able to do research **to the end** shows determination, motivation and other skills that might be difficult to show otherwise.
- Research is predominantly **academic** but there is a lot of rigorous research in practice/**industry** (e.g. market analysis, consumer research, consulting).
 - Research informs practice (e.g. innovation, policy development and evaluation).
- Thinking about **postgraduate studies** (MSc or PhD)?
- Knowing something in depth – being an **expert**.

Generating Knowledge is our business

Homework: Reading

- Use your copy on Kortext to read the following:
 - Section 1 (Safieddine, 2021, p. 1-18)