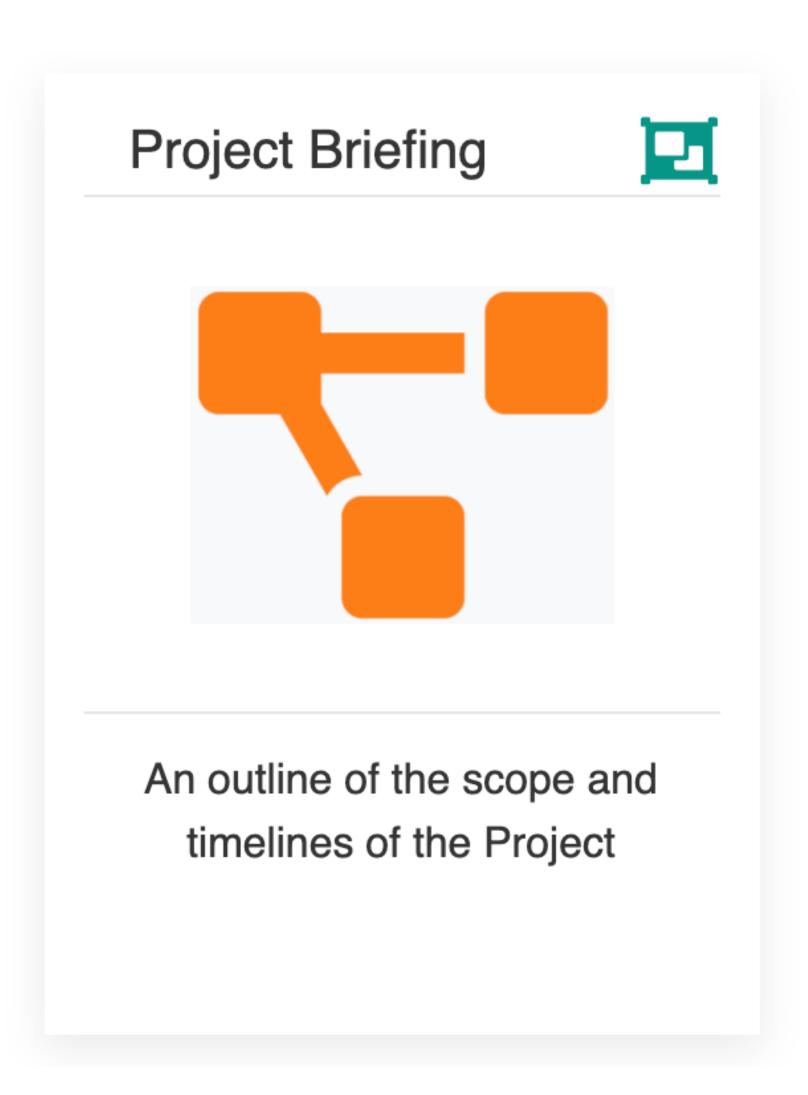
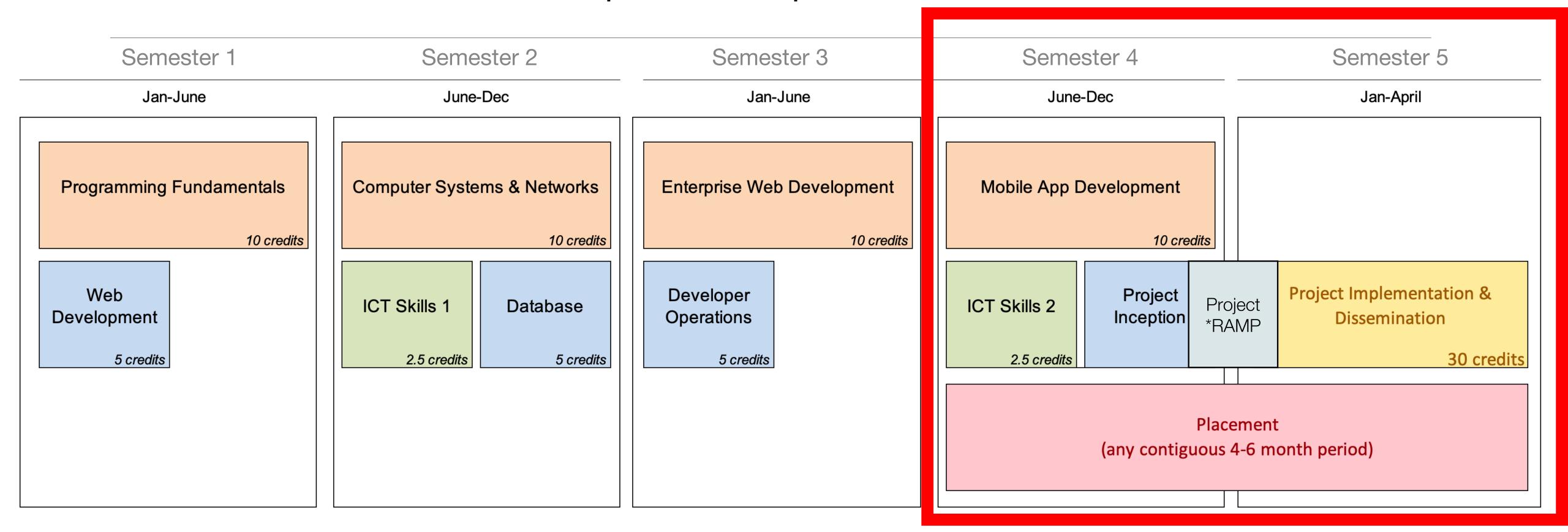
Project



HDip in Computer Science



^{*}RAMP Research, Analysis & design, Methodology, Planning

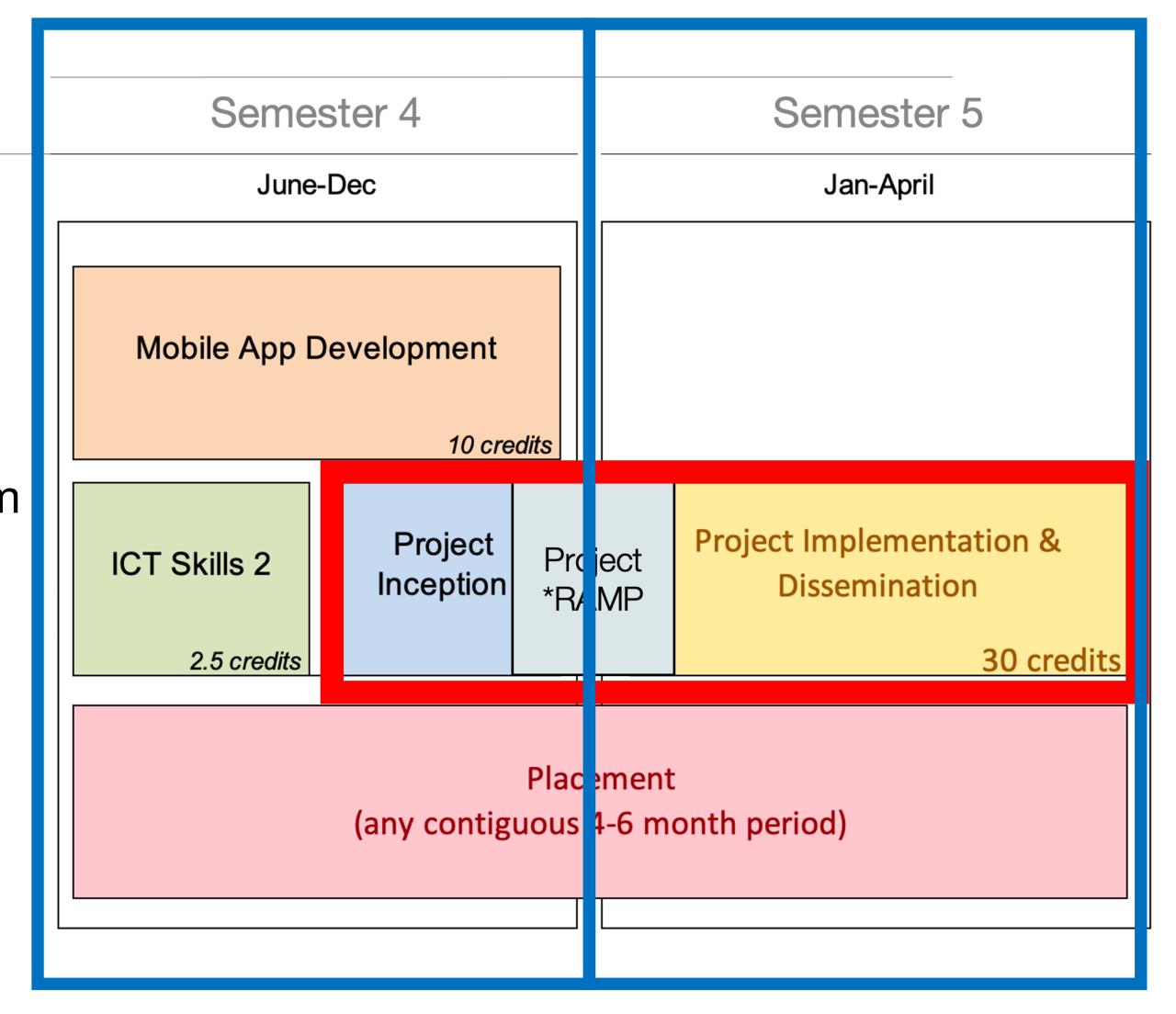
Project Lifecycle - 1

Semester 4

- 2 meetings with project coordinator
- Develop a project proposal draft & final
- Start Research, Analysis & design (system diagram, data models, screen designs, walkthroughs), Methodology, Plans

Semester 5

- Complete RAMP
- (re)Define Scope
- Project Development / Implementation
- Ongoing contact with project supervisor
- (7 sprints / Slack / Trello / Github)



Project Lifecycle - 2

Semester 5

- Dissemenation
 - Project website
 - Single Github Project Repo
 - Showcase Entry
 - Final Report
 - Trello Board
 - Demo Video
 - Presentation to assessment panel
- Semester 4 Semester 5 June-Dec Jan-April Mobile App Development 10 credits **Project Implementation &** Project Pro ect ICT Skills 2 Inception Dissemination *RAMP 30 credits 2.5 credits Placement (any contiguous 1-6 month period)
- Assessment at Conclusion of project:
 - End of semester 5 (or Autumn)

Agenda

- 1. Purpose of the project
- 2. Project Timeline
- 3. Project Phases
- 4. Styles of Project
- 5. Project Assessment Guidelines
- 6. Project Assessment Process

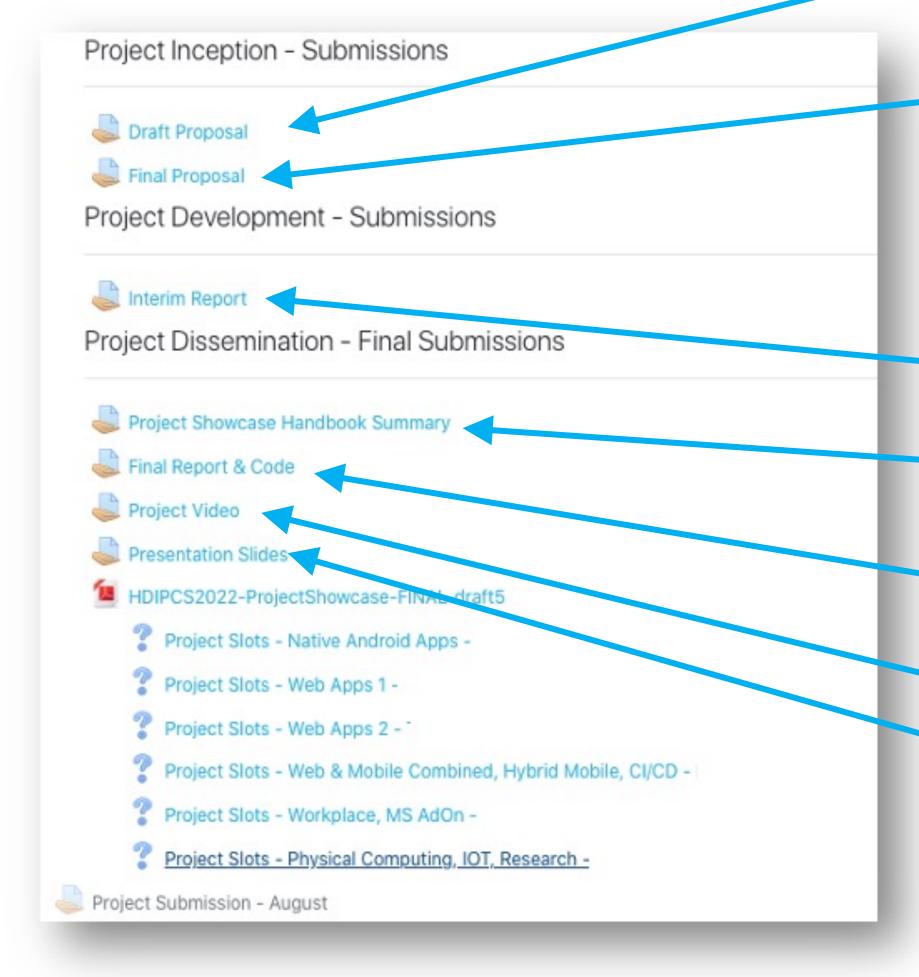


- 7. Project Scale
- 8. Sample Projects
- 9. Project Handbook

1. Purpose of Project

- A Capstone for learning from the course
- Integrate knowledge from multiple modules
- Investigate new domains, technologies or procedures
- Document and record your work experience
- Formally research a new technical domain
- Showcase skills and achievements

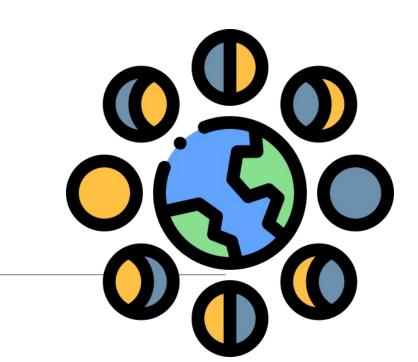
2. Project Timeline



Semester	Milestone	Description	When?
4	1	Meeting 1 with Project Coordinator	October
4	2	Draft Proposal	Early November
4	3	Meeting 2 with Project Coordinator	Mid November
4	4	Final Proposal	Early December
		RAMP Phase Research, analysis & design, Methodology, Plans	Dec-Mid Jan
		Individual Project Supervisor Appointed	end of semester / start of next semester
5	5	Interim Report	Mid-February
5	6	Showcase Entry	End of March / Start of April
5	7	Final Project Submission (code and final report)	+1 week
5	8	Video demo of project	+1 week
5	9	Presentation of Final Project	+1 week
			· · · · · · · · · · · · · · · · · · ·

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3. Project Phases



1. Inception Phase:

Formation of the project concept, two meetings with coordinator, draft and final proposals + (optionally) interaction with work place mentor. Scoping the project.

2. RAMP Phase:

Research, Analysis & design (system diagram, data models, screen designs, walkthroughs), Methodology (AGILE SCRUM), Plans (Trello)

3. Development Phase:

Realisation of the project as proposed or amended in agreement with your supervisor. 1/2 week Sprints (6/7 sprints), slack / zoom meetings, GitHub Commits, Working on Final Report and project web page updated.

4. Dissemination Phase:

Preparation of project web page, GITHUB project repo, Showcase Entry, Final report.TRELLO, Creation and publishing of a demonstration video. Project demonstration/presentation. Delivery of final documentation

4. Project Styles





Work Based Project

A project allocated by your work experience supervisor, representing a reasonably independent piece of work you have been implementing on your placement or place of work:



• A standalone application (e.g. web app, native mobile app)



A component of a larger system

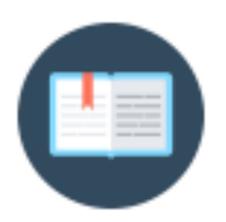


• A new or improved workflow / business process serving some need in the workplace (CI/CD pipeline)



Independent Project

unrelated to work placement, consisting of an implemented software system designed to explore or consolidate knowledge in a specific domain



Research Paper

exploring a specific topic or set of topics and developed to *conference paper* standard. May or my not be related to work placement.

5. Project Assessment Indicative Guidelines

Core Criteria (85%)

Model (15%)

light-weight, relevant modelling, generally in accordance with a recognised process. e.g. UML, Architectural Model, Process Flow Charts, Data Models (E-R), System diagrams, Wireframes etc.

Documentation (15%)

project-related communication including, but not limited to: learning logs (work placement), writing well-constructed formal reports (tables, numbering, Harvard Referencing & citations), sketches of ideas in diagrammatic/written form, wireframes, Trello board (used for plans and progress). Submitting all requirements (draft & final proposal, Handbook entry, Project Web Page, Final Report, Video, Code, Github repo - history/releases

- Implementation (30%) based on the modelling and the content of the reports.
- Level (25%)
 appropriate mix of (a) originality, (b) innovation and (c) complexity

+

Critical Self-Review (15%)

- what you learned (5%)
- what you achieved (5%)
 + in what direction the project might be taken if more time was available
- problems encountered (5%)
 how they were addressed and solved
- Supervisor provides indicative marks before presentations
- Panel of 3+ lecturers mark each project after presentations
- Marks are reviewed again at the end, ranked/compared against each other
 & normalised.

6. Assessment Process – pre presentation



Before presentations are made:

- A handbook will be created grouping the projects by type.
- Up to 6 presentations per day scheduled.
- A panel of 3+ lecturers review all projects. The panel makeup will be communicated to all beforeh presentations
- Your supervisor will provide marks to the panel (for indicative purposes only)
- All panel members will have viewed your demo video.
- At least 1 member will have read your report in detail.
- At least 1 member may have reviewed your code repos.
- Majority of panel members will be present for your presentation. Your supervisor may attend also.

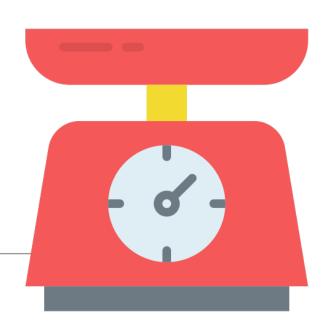
6. Assessment Process – post presentation



After each presentation

- The panel member will have an indicative grade or ranking for each project.
- After all presentations have been completed, the panel will meet to discuss the projects in a **collegiate** fashion, ranking the projects for each category initially starting with highest and lowest working towards the middle. When all project categories have been completed, the panel will break.
- On return, the projects within each of the categories will be merged.
- Then, marks will be applied based on the based on the Project Grade categories.
- The project marks will be shared with all supervisors
- If there is an unacceptable difference between a supervisors suggested mark and the panels allocated mark, the project and mark can be **reviewed again**.
- Where there are more than 1 panel, there will be an additional step of reviewing and merging the results of each panel.

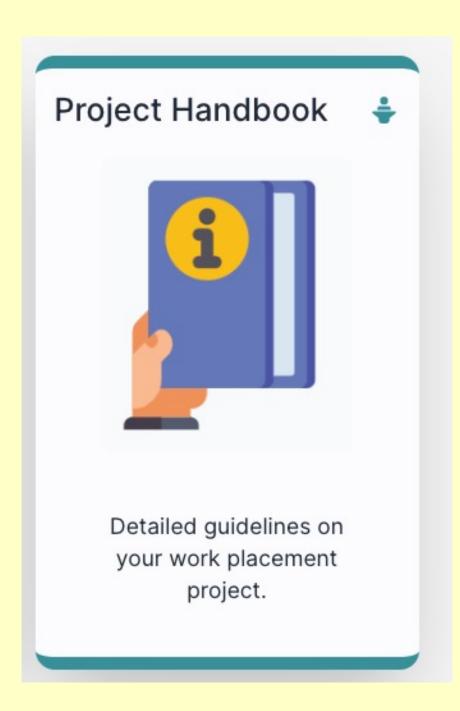
7. Project Scale



- Size of Project see showcases
 Grade appears on Graduation Transcript BUT NOT included in the calculation of the overall award level
- Proposal 2 pages
- Documented in a **Showcase Entry**(Name, Profile Picture, Project Title, <u>100 word</u> abstract, project web page, Project Type {web app, mobile app, both, CI/CD, OTHER}, Youtube project demo video link, github project repo)
- A Final Project Report (Maximum of 8000 words for the document core excludes TOC, Bibliography, Appendices, Preface, Acknowledgements)
- A link to your demo Video (10 mins max) which will become part of the project legacy. Uploaded to your Student YouTube account as unlisted or public.
- Presentation to a panel in April/May (or August/September)
 (15 mins max + 10 mins Q&A)

8. Project Handbook

- Similar to contents above but also contains additional details about the each submission, examples, and dates. It contains many Appendicies with samples.
- Dates will be shared on the SLACK #PROJECT channel at start of each semester



9. Sample Projects

 Take a look at showcases from previous years (NOTE requirements &specs change over time)







2021 Showcase



2020 Showcase



Work Placement & Project

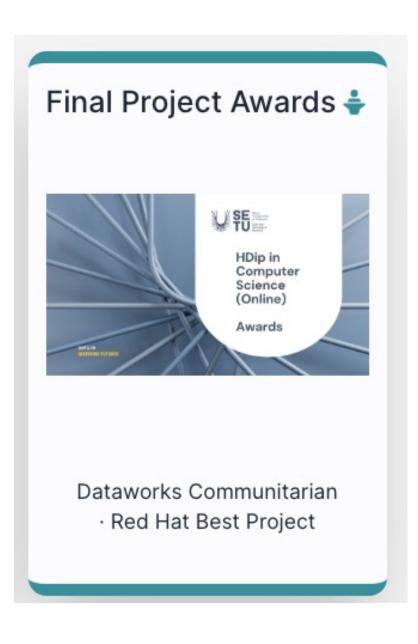
One module – 30 credits

Academic Writing Workshops

- schedule posted mid September,
- runs next semester at 5.15,
- repeated twice/week

Project Awards





Work Placement & Project

- If you are working in tech,
 - You have choice of work based or independent project.
 - We recommend work based project.
- If you are not working in tech,
 - You are by definintion doing independent project.
 - You are incentivised to enhance your learning experience by undertaking **certification programmes** that we will make available.
 - Project grading for such projects will take this into account. **Project is capped 70%** unless you undertake certification (effectively costs you a grade)
- Free Certification options will be made available (September) including Linux, RedHat
- Certification will take place from September to August to complete