





For this assignment you are required to:

Create a working IoT project using a suitable distributed version control system.

Present and communicate your work in a clear, correct manner



Begin to develop a digital portfolio.



Assessment will be based on technical (e.g., features), communication, organisational and presentation skills.



100% CA

1 overall project

### Requirements



### Timeline



### 3<sup>rd</sup> March(week6)



### 1-9 May (week12/13)

Proposal document (for 3<sup>rd</sup> March)

- One page document with general concept.
- Github repo

Presentation and interview

- Full submission.
- Present your work.

#### Interim Review

- Updated Readme.md
- Feedback on progress



31st Mar (week9)

# Grade Spectrum

	Combined knowledge (25)	Working Artifact (25)	Digital Portfolio (25)	Communication (25)
Base (40-49)	2 programme strands present in output. Basic knowledge of each exhibited.	Basic working artifact consisting of a single device.	Basic structured portfolio. No coherent structure	Minimal (1) communication resource used (simple read me).
Good (50-64)	apply concepts from more than two modules/strands	Working artifact that connects >= two devices.	Well structured portfolio in source control.	Portfolio includes clear presentation, documentation.
Excellen t (65- 80)	>2 strands as above and including more advanced knowledge and concepts.	All above, multiple device types to provide functional application.	Continuous update and progression of portfolio. Public site.	In addition, additional communication resources (e.g. instruction video, learning resources)
Outstan ding (80- 100)	All above, including selfacquired knowledge over and above module content.	All previous to excellent level.	All the above including advanced tools and features (e.g. branches, forks).	All the above, accessible project platform (e.g. web site)



## Possible Theme: Energy Use

- Government launched campaign to encourage energy efficiency
- Increase in renewables/wind energy production
- Optimal to use high energy appliances:
  - When outside peak hours
  - When renewable energy generation is high (e.g. Windy and/or Sunny)
- IDEAS: Create an IoT device that identifies:
  - Optimal time to use high energy consuming devices.
  - Encourage use of green transport