

- Biosensors and Bioelectronics:
 - Great exam coursework split
 - Coursework (50%): Select or propose 1 topic
 - 10 minute presentation: super easy
 - Can be done in a night and is to help with lit review
 - Literature review (2000 words)
 - I did it in a single night
 - With proper planning it is simple
 - Good practice for fyp and other subjects with lit reviews
 - Exam (1 hour):
 - Typical three questions (super easy to get a 2.1)
 - 1 simple math question and explanation of simple equation
 - 1 question on application of one sensor
 - 1 question on potential use of tech on sensor
- Biomimetics:
 - Good for increasing coursework percentage
 - Coursework (100%): Select or propose 1 topic
 - Jumping robot and poster (20%)
 - Super easy
 - See previous robot design
 - Poster takes less than an hour to make
 - Lit review (80% and 2000 words)
 - You choose your own topic
 - Can be done in 2 days
- Electric Vehicle Design:
 - Good for increasing exam percentage
 - Coursework (25%): This one sucks, but is mostly doable. No other way to put it.
 - Matlab script: simulate electric vehicle going around a track and try to achieve given specifications
 - First part is easy
 - Even the team bath racing people struggled
 - Report (1500-2000 words):
 - The less words the better
 - Reliant on matlab
 - Exam (75%): easiest exam I've taken except for last question.
 - Mostly 2 mark questions direct from notes
 - Easy to get 2.1
 - Last question is open ended and difficult but the exam is long enough where it is not a problem
- Computational Intelligence
 - Great for employability and python experience
 - Coursework (100%)
 - Coursework A (20%): make a perceptron model
 - Neural network is simple and easy
 - Small report

- Coursework B (20%): make genetic algorithm
 - Small report as well
- Coursework C (60%): classify brainwave data however you'd like
- Energy and the Environment
 - Very easy
 - Coursework (100%)
 - 2000 word literature review on countries power considerations

Course	Difficulty	Coursework%	Exam%
Digital image processing	Medium	20	80
Computational intelligence	Medium	100	0
Radar systems and remote sensing	medium	0	100
Power electronics and machines	Medium	0	100
Biosensors and bioelectronics	Easy	50	50
Satellite based navigation systems	Medium	0	100
Advanced microelectronic system design	Hard	50	50
Electric vehicle design	Medium	25	75
Advanced electronic materials	Medium	50	50
Energy management systems and power system protection	Unknown	0	100
Advanced Control	Very hard	0	100
Energy and the Environment	Easy	100	0
Modelling and analysis of manufacturing systems	Easy – Medium (for some hard)	100	0
Fluid Power	Hard	20	100
Biomimetics	Easy	100	0
System Modelling and Simulation	Unknown	100	0