

# Ffiseg Safon Uwch

## Bwrdd Arholi

CBAC

## Crynodeb o'r Cwrs

Ffiseg yw astudiaeth o ffenomenau naturiol ac y mae yn rhan allweddol o wyddoniaeth a thechnoleg. Mae yn cynnwys pynciau fel gwres, golau, sain, trydan, effeithiau magnetig a ffiseg cwantwm.

### SGILIAU'R PWNC

- Ennill gwybodaeth a datblygu dealltwriaeth o gysyniadau gwyddonol.
- Datblygu sgiliau ymarferol, trin data, dadansoddi, cyfathrebu yn ogystal â Thechnoleg Gwybodaeth.
- Cyflawni gwaith ymchwiliol ymarferol.
- Defnyddio eu gwybodaeth a'u dealltwriaeth o Ffiseg ar gyfer sefyllfaoedd anghyfarwydd.

## Dull / Manylion Asesu

|    | UNED | CYNNWYS   | ASESU                           |
|----|------|---|---------------------------------|
| UG | 1    | <b>MUDIANT, EJNI A MATER</b><br>Mecaneg<br>Cysyniadau Ejni<br>Solidau Dan Ddiriant                          | Arholiad ysgrifenedig<br>1½ awr |
|    | 2    | <b>TRYDAN A GOLAU</b><br>Trydan CU<br>Golau Fel Tonnau a Gronynnau  | Arholiad ysgrifenedig<br>1½ awr |
| A2 | 3    | <b>OSGILIADAU A NIWCLEASAU</b><br>Mudiant Harmonic Syml<br>Ffiseg Niwclear                                  | Arholiad ysgrifenedig<br>2¼ awr |
|    | 4    | <b>MEYSYDD AC OPSIYNAU</b><br>Meysydd Disgyrchiant<br>Meysydd Trydanol<br>Meysydd Magnetaidd<br>Pwnc Opsiwn | Arholiad ysgrifenedig<br>2 awr  |
|    | 5    | <b>FFISEG ARBROFOL</b><br>Dadansoddi data<br>Ymchwiliad   | Arholiad ymarferol<br>2 ½awr    |

## Llwybrau Dilyniant / Gyrfaol

Mae amryw o agoriadau gyrfaol ar gael gyda chymwysterau mewn Ffiseg e.e. addysg bellach, mewn ysbyty, maes peirianeg, addysg, cyfrifeg, y gyfraith, darlledu a.y.y.b.

# Physics A Level

## Examination Board

WJEC

## Course Summary

Physics is the study of naturally-occurring phenomena. It is a key part of science and technology dealing with how and why things behave as they do; it includes such topics as heat, light, magnetism, electricity, sound and quantum physics.

### SUBJECT SKILLS

- Acquire essential knowledge and understanding of scientific concepts.
- Develop experimental, manipulative, interpretive and communicative skills including information technology.
- Carry out practical investigative work.
- Apply their knowledge and understanding of Physics to unfamiliar situations.

## Assesment Details / Methods

|           | UNIT | CONTENT   | ASSESSMENT                      |
|-----------|------|---|---------------------------------|
| <b>AS</b> | 1    | <b>MOTION, ENERGY AND MATTER</b><br>Mechanics<br>Energy Concepts<br>Solids Under Stress                 | Written examination<br>1½ hours |
|           | 2    | <b>ELECTRICITY AND LIGHT</b><br>DC Electricity<br>Wave and Particle Nature of Light                     | Written examination<br>1½ hours |
| <b>A</b>  | 3    | <b>OSCILLATIONS AND NUCLEI</b><br>Simple Harmonic Motion<br>Nuclear Physics                             | Written examination<br>2¼ hours |
|           | 4    | <b>FIELDS AND OPTION</b><br>Gravitational Fields<br>Electric Fields<br>Magnetic Fields<br>Optional Unit | Written examination<br>2 hours  |
|           | 5    | <b>EXPERIMENTAL PHYSICS</b><br>Data Analysis<br>Investigation   | Practical exam<br>2 ½ hours     |

## Progression Routes / Career

With a physics qualification you could choose a variety of occupations e.g. Further Education, in a hospital, in engineering, in education, accountancy, law, broadcasting etc.