Technoleg Gwybodaeth a Chyfathrebu Safon Uwch

Bwrdd Arholi:

CBAC

Crynodeb o'r Cwrs:

Cwrs dwy flynedd sy'n arwain at un lefel-a mewn Technoleg Gwybodaeth a Chyfathrebu.

Mae'r fanyleb hon yn annog ymgeiswyr i ddod yn ddefnyddwyr TGCh craff sy'n meithrin ystod eang o sgiliau TGCh a gwybodaeth a dealltwriaeth o TGCh. Dylai hyn fod yn sylfaen ar gyfer symud ymlaen i ddysgu pellach, gan gynnwys symud ymlaen o UG i U2, a/neu i gyflogaeth. Yn benodol, mae'n annog ymgeiswyr i ddatblygu:

- y gallu i feddwl yn greadigol, dyfeisgar, dadansoddol, rhesymegol a beirniadol;
- y sgiliau i weithio gyda'i gilydd;
- y gallu i gymhwyso sgiliau TGCh a gwybodaeth a dealltwriaeth o TGCh mewn amryw o gyd-destunau i ddatrys problemau;
- dealltwriaeth o oblygiadau defnyddio TGCh ar gyfer unigolion, cyrff a chymdeithas a dealltwriaeth o ystyriaethau cymdeithasol, cyfreithiol, moesegol ac ati mewn perthynas â defnyddio TGCh;
- ymwybyddiaeth o dechnolegau newydd a gwerthfawrogiad o effaith bosibl y rhain ar unigolion, cyrff a chymdeithas.

Dull / Manylion Asesu

	CYNNWYS	ASESU
UG	**Uned IT1 – Systemau Gwybodaeth 30%** Mae dwy Adran i'r papur: Adran A (75%) yn ymwneud a meithrin gwybodaeth a dealltwriaeth o systemau gwybodaeth; Adran B (25%) yn ymwneud a thaenlen fydd wedi cael ei pharatoi cyn yr arholiad	Arholiad Allanol – 2 ¼ awr
UG	**Uned IT2 – Cyflwyno Gwybodaeth – 20%** Mae'r ymgeiswyr yn ymgymryd â thasgau cyhoeddi bwrdd gwaith ac amlgyfrwng.	Asesiad Mewnol
U2	**Uned IT3 – Y Defnydd o TGCH a'i heffaith – 30%** Mae 2 Adran i'r papur: Adran A (8 cwestiwn) Adran B (dewis un cwestiwn o ddau) Bydd y myfyrwyr yn dysgu sut i weithio gyda TGCh a chronfeydd data.	Arholiad Allanol – 2 ½ awr
U2	**Uned IT4 – Cronfeydd Data Perthynol – 20%** Mae'r ymgeiswyr yn dadansoddi, dylunio, gweithredu, profi a gwerthuso ateb i broblem o'u dewis sy'n gofyn iddynt ddefnyddio cronfa ddata berthynol.	Asesiad Mewnol

Llwybrau Dilyniant / Gyrfaol

Colegau a phrifysgolion – mae'n bosibl i astudio ar gyfer diploma neu radd mewn TGCh mewn colegau a phrifysgolion.

Mae nifer helaeth o gyfleoedd **gyrfa** ar gael sy'n cynnwys: athro (TGCH), dylunydd gwe, dadansoddwr systemau, datblygwr gemau cyfrifiadur, tra gallai graddedigion TGCH hefyd gael swydd yn y cyfryngau (peiriannydd darlledu, darlledwr aml-gyfrwng, technegydd sain), swydd milwrol (Swyddog Technegol lluoedd arfog, swyddog gwybodaeth, technegydd lloeren) neu ym myd cyllid (dadansoddwr credyd, brocer nwyddau, dadansoddwr risg ariannol).

Information Communication Technology A Level

Examination Board:

WJEC

Course Summary:

A two year course that leads to one A-level in ICT.

This specification encourages candidates to become discerning users of ICT, developing a broad range of ICT skills and knowledge and understanding of ICT. This should form a basis for progression into further learning, including progression from AS to A2, and/or employment. Specifically, it encourages candidates to develop:

- the capacity for thinking creatively, innovatively, analytically, logically and critically;
- the skills to work collaboratively;
- the ability to apply skills, knowledge and understanding of ICT in a range of contexts to solve problems;
- an understanding of the consequences of using ICT on individuals, organisations and society and of social, legal, ethical and other considerations on the use of ICT;
- an awareness of emerging technologies and an appreciation of the potential impact these may have on individuals, organisations and society.

Assesment Details / Methods

	CYNNWYS	ASESU
AS	**Unit IT1 – Information Systems 30%** There are 2 sections to the paper Section A (75%) involves developing your understanding of ICT systems; Section B (25%) involves use of a spreadsheet which is developed before the examination.	External Examination – 2 ¼ hours
	Unit IT2 – Presenting Information – 20% Candidates will undertake tasks based on desktop and multimedia publishing.	Internal Assessment
A2	**Unit IT3 – Use and Impact of ICT – 30%** There are 2 sections to the paper Section A (8 questions) Section B (one question from a choice of two) Candidates will learn how to work with ICT and databases.	External Examination – 2 ½ hours
	Unit IT4 – Relational Databases – 20% Candidates will analyse, design, implement, prove and evaluate an answer to a problem of their choosing which asks them to use a relational database	Internal Assessment

Progression Routes / Career

Colleges and Universities - it is possible to study for a diploma or degree in ICT.

Career opportunity include: Teacher (ICT), Web designer, systems analyst, computer games developer, whilst ICT graduates could also look for employment in the media (broadcast engineer, multimedia broadcaster, sound technician) military (armed forces technical officer, intelligence officer, satellite technician) or finance (credit analyst, commodity broker, financial risk analyst).