



Manyleb

- Datblygu gwerthfawrogiad o bwysigrwydd creddigrwydd ac arloesi i arfer dylunio da.
- Dadansoddi cynhyrchion presennol sy'n ymateb i anghenion, dymuniadau a gwerthoedd y defnyddwyr.
- Datblygu dealltwriaeth o ffactorau sy'n effeithio ac yn dylanwadu ar ddylunio, gan gynnwys ffactorau hanesyddol, cymdeithasol/diwylliannol, amgylcheddol ac economaidd.
- Datrys problemau 'bywyd go iawn' drwy ddylunio a chreu cynhyrchion neu systemau sy'n ymateb i anghenion, dymuniadau a gwerthoedd y marchnadoedd targed.
- Defnyddio'r broses ddylunio iteradd wrth ddatblygu datrysiadau, gan gynnwys dadansoddi, gwerthuso a mireinio syniadau wrth iddynt ddatblygu.
- Gweithgynhyrchu prototeipiau o ansawdd uchel sy'n gweithredu'n llawn, yn addas at y diben ac yn ymateb i anghenion, dymuniadau a gwerthoedd y defnyddwyr.

Gwaith:

Nifer o dasgau ffocws/prosiectau byr i ddatblygu sgiliau, deallusrwydd a thechnegau perthnasol gan gynnwys modelu 3D a CAD/CAM.

Gwaith Cwrs

- Un dasg dylunio a gwneud.
- Cynhyrchu gwaith ymchwil a syniadau mewn llyfr bras a thrwy fodelu.
- Datblygu'r syniad terfynol yn ffurfiol ar dudalennau A3.
- Y bwrdd arholi yn gosod y cyd-destun gyda'r dysgwr yn dewis y Briff Dylunio
- Gweithio mewn 3D mewn defnyddiau gwrthiannol a modelu amrywiol.

Arholiad Digidol

Pawb i sefyll un papur 1 1/2 awr.

Dull Asesu

Gwaith Cwrs – **70%**

Papur Arholiad – **30%**

Syllabus

- *Develop an appreciation of the importance of creativity and innovation to good design practice.*
- *Analyse existing products that respond to the users' needs, wants and values.*
- *Develop understanding of factors that affect and influence design including historical, social/cultural, environmental and economic.*
- *Identify and solve 'real life' problems by designing and making products or systems that respond to the target markets' needs, wants and values.*
- *Apply the iterative design process while developing solutions, including the analysis, evaluation and refinement of ideas as they develop.*
- *Manufacture high quality, fully functioning prototypes, fit for purpose and fulfilling the needs, wants and values of the users.*

Work:

Focus tasks/short projects to develop skills, understanding and appropriate techniques which include 3D modelling and CAD/CAM.

Course Work

- *One design and make task.*
- *All research work and initial ideas to be developed in a sketch book and through modelling.*
- *The final design is developed in detail on A3.*
- *The examination board to set the context with the learner choosing his/her own brief.*
- *Work in various resistant and modelling materials.*

Digital Exam

All candidates to sit a 1 1/2 hour paper.

Assessment Method

Coursework – **70%**

Examination Paper – **30%**