

Institute of Coding Skills Bootcamp

Aber Code: XC24010

Title: Microcredentials: Applied 2D Graphics

Start date: 09/10/2023

Location: Online

Cost: Free

Contact Hours: 1x 2 hours per week,

Course length: 8 weeks

Signup Link: [https://www.aber.ac.uk/en/lifelong-learning/courses/course/details/SL105\\_XC24010/](https://www.aber.ac.uk/en/lifelong-learning/courses/course/details/SL105_XC24010/)

#### Synopsis:

The module will form a generic introduction to image processing. It will start with the image formation and compression process. Subsequently several image filtering techniques will be discussed in order to enhance images.

#### Notes:

The module is aimed at learners with GCSE mathematics or similar qualification/experience who may not have studied the subject for some time.

#### Assessment:

The module will consist of a single assessment that includes a piece of practical work (mini-project) alongside a short report (800 words).

#### Aims:

This module will introduce students to image processing. Including; colour space, image formation, image compression, image enhancement, and finally image processing (blending and layers etc). The course will be presented in a number of blocks - each will have a worksheet with linked mini-videos and an online workshop - the latter will be recorded so you can study the course at times that suit you.

#### Learning Outcomes:

On successful completion of this module students should be able to:

Express a consolidated and extended understanding and knowledge of image tools, topics and techniques, such as: colour space, image formation, compression, enhancement, and editing.