Newman University
BIRMINGHAM

Subject Knowledge Enhancement Course

COMPUTING

Your opportunity
Your community
Your university

This innovative blended course is aimed at those who have secured a place on either a PGCE or School Direct computing teacher training course starting September 2019.

Overview
If you have a conditional offer on a secondary computing teacher training programme and have a strong grasp of ICT but require greater understanding of computer science education, and require an SKE course then consider the course at Newman University. Newman University has a long tradition of training ICT teachers with a strong promotion of computer science and delivering computer science undergraduate modules. SKE courses have been designed to enhance an existing degree or serve as a subject refresher, providing the necessary improvements to go and teach effectively at secondary level.

Newman is offering various SKE courses in Computing
8 week course: *3rd June to 26th July 2019*

The 12, 20 and 24 week courses begin with the 8 week course and then continue in parallel with the training year providing a practical based support to subject knowledge development in computing. These courses are dependent on taking up a PGCE at Newman University.

12 weeks: *3rd June to 26th July 2019*, with the final 4 weeks taking place during the PGCE training year.

20 weeks: *7th May to 26th July 2019*, with the final 8 weeks taking place during the PGCE training year.

24 weeks: *7th May to 26th July 2019*, with the final 12 weeks taking place during the PGCE training year.

Features
These courses will enable you to acquire sufficient computer science subject knowledge to deliver quality teaching to Key Stage 3, and beyond. You will be trained by an experienced and highly qualified secondary practitioner who will guide you in the learning of computer science at a level appropriate for your future teaching.

The course will be delivered in a lively and interactive manner, placing particular emphasis on experiential and collaborative learning. In all sessions there will be clear links to theory and practice. Tutorials are provided in order that you can be assured of individual attention.

You will be expected to carry out a substantial amount of self-study and Newman's new Library facilities will be at your disposal.

Study Units (including)
There will be ten topics designed to improve your subject knowledge in the area of computer science.
- Algorithms, Flowcharts and Pseudo code
- Visual Programming
- Text based Programming with Python
- Networking
- Computer Architecture
- Data Representation, Boolean Algebra and Logic Gates
- Manipulating Data
- The Science behind the Internet
- Searching and Sorting Data
- Physical Computing

Assessment
Each topic will have an associated task. The responses to the tasks will form part of an e-portfolio, which will be completed to demonstrate knowledge, understanding and application of computing principles and concepts outlined in each topic.

Course Delivery
This course will be delivered with a mixture of face to face sessions and complimented by online learning.

Entry Requirements
Applications are open to those candidates who have an offer for a secondary computing teacher training course, starting 2019 from a recognised teacher training provider that is conditional on the completion of an SKE course, of at least 8 weeks. (Those courses noted above, that are more than 8 weeks, would only be available to candidates following the PGCE at Newman University.)

Enrolment Dates
20 and 24 week courses 7th May 2019
8 and 12 week courses 3rd June 2019

Fees and Funding
The courses are fully funded by the NCTL. Following successful enrolment you may be entitled to a bursary of £200 per week for the first 8 weeks.

GET IN TOUCH

For further information or an application form contact:

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