



**NATIONAL COLLEGE
FOR NUCLEAR**

NORTHERN HUB

**BEng HONOURS
DEGREE IN
ELECTRICAL
ENGINEERING**



PROGRAMME OVERVIEW

The Honours Degree in Electrical Engineering provides a higher education engineering experience for the student covering a wide range of Electrical Engineering topic areas. The course has been designed to provide a combination of extensive practical work supported by academic studies with a unique experience within the National College for Nuclear Northern Hub. The aim of the programme is to provide work ready engineers with the relevant skills, knowledge and behaviours to work within a highly technical environment.

WHO SHOULD APPLY?

The programme is designed for individuals who may be looking to progress and top-up from an existing level 5 engineering qualification to a level 6 honours degree. The course has also been designed to provide a sector jumping opportunity. It provides an in depth study of various power systems preparing students to enter or develop into Engineer level within the power industry. The programme also enables the student to select a specific pathway relevant to their employment aspirations and/or local employment demand. The course has also been designed in conjunction with the level 6 nuclear degree apprenticeship standard.

WHAT AND HOW WILL I STUDY?

During the honours degree you will study a range of modules including:

TOPIC AREAS

- Professional Development
- Power Electronics, Actuators & Drives
- Electrical Design & Modelling
- Control Systems & Automation
- Embedding Systems & Development
- Industrial Based Dissertation

The course will be delivered on a block release basis providing opportunities for students to undertake individual modules supporting continuous professional development.

A range of delivery methods will be utilised during the programme with a large emphasis on 'learning from doing'. This will include the use of a virtual reality suite enabling the students to experience industrial systems and situations within a safe environment. In addition the students will have the opportunity to work within the brand new National College for Nuclear Northern Hub, with state of the art equipment preparing for real work experiences and real industrial scenarios. A large proportion of the student activity will be with project work.



WHAT QUALIFICATIONS WILL I OBTAIN?

On the successful completion of the course, an Honours Degree in Electrical Engineering (BEng Hons) will be awarded.

The awarding body is the University of Cumbria and accredited by the National College for Nuclear.

PRE-REQUISITES

A HND or Foundation Degree in Electrical or Electronic Engineering.

DURATION

1 year full time or 2 years part time (block release delivery). Program will commence January 2018.



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