Nuclear Education at UCLan

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About UClan

- Over 35,000 students / 3,000 staff
- 5th largest University in Britain
- About 20,000 students study in Preston
- 3,000 study UClan courses at institutions across the globe
- 120 nationalities are represented in the student body
- Over 680 courses covering pretty much the full spread of academic disciplines

Nuclear Education at UClan - Our Goal:

To make the University of Central Lancashire (UCLan) a world class centre of excellence for nuclear teaching and research
Objectives

1. To develop a centre of excellence for undergraduate and postgraduate nuclear studies to support sustainable nuclear power programmes in the UK and internationally.

2. To develop research in the areas of nuclear materials, nuclear safety, nuclear security and safeguards to support Government and Industry in relation:
   - nuclear regulation;
   - the effective management of nuclear safety, nuclear security and nuclear safeguards at nuclear sites; and
   - the implications of new nuclear technologies.

UCLan Nuclear

- Created to provide UCLan with a focussed and coordinated approach to its nuclear related activities
- Develop a nuclear policy capability
- Develop and deliver postgraduate nuclear courses
- Develop and deliver postgraduate level CPD
- Develop and deliver undergraduate nuclear courses
- Develop nuclear research capability
Postgraduate Degree Programme

MSc Degree in Nuclear Safety, Security & Safeguards - January 2012

MA Degree in Nuclear Regulation – Planned September 2012

MSc Degree in Nuclear Security – Yet to be agreed

MSc Globalisation and Nuclear Energy Futures – September 2012
Diploma and Certificate Programme

PGDip Nuclear Safety and Security
PGCert Nuclear Safety
PGCert Nuclear Security
PGCert Globalisation and Nuclear Energy Futures
PGCert Governance of the UK Civil Nuclear Industry (e-Learning)

UCLan Industry Engagement

Module 1: Introduction to the Nuclear Fuel Cycle
Module 2: The Regulation & Management of Nuclear Safety
Module 3: The Delivery of Nuclear Safety
Module 4: The Regulation & Management of Nuclear Security & Safeguards
Module 5: The Delivery of Nuclear Security & Safeguards
Module 6: Leadership and Management in a Nuclear Environment / Research Methodology
Undergraduate Degree Programme

Foundation Degrees Part-time

FdEng Nuclear Engineering
FdSc Nuclear Related Technology
FdSc Nuclear Decommissioning
FdSc Nuclear Project Management & Control
FdSc Nuclear Security – yet to be agreed

Honours Degrees (top-up) Part Time

BSc (Hons) Nuclear Decommissioning
BEng (Hons) Nuclear Plant
BEng (Hons) Nuclear Engineering (planned)
BSc (Hons) Nuclear Security – yet to be agreed

Honours Degrees – Full-time (Sandwich)

MEng Nuclear Safety Engineering (under development) Preston
Continuing Professional Development Programme

Atkins Academy at UCLan (1-3 Day)

Engineering Substantiation in a Nuclear Safety Case
3 day course - (2 courses delivered)

The Science and Technology of Nuclear Waste
5 day course - (3 courses delivered)

Decommissioning, Radioactive Waste & Environmental Management

Continuing Professional Development Programme

Atkins Academy at UCLan

CPD Courses being Developed

Introduction to Nuclear Security in conjunction with Kings College London

Risk Informed Decision Making

Introduction to the SAPs

Introduction to Quality in the Nuclear Industry

Nuclear Safety Standards

Spent Fuel Management

Reprocessing and Fissile Material management
Continuing Professional Development Programme

NSAN (National Skills Academy for Nuclear)

Certificate of Nuclear Professionalism (5 Days)

1. Safety, Environment and Security Management
2. Nuclear Principles Protection and Frameworks
7. Safety Case Production and Evaluation

Continuing Professional Development Programme

NTEC (Nuclear Education Technology Consortium)  5 days

Nuclear life Cycle
Decommissioning, Radioactive Waste and & Environmental Management
Geological Disposal of Radioactive Waste
The Governance of Decommissioning and Radioactive Waste
Environmental Decision Making Applied to Decommissioning
UCLan Industry Engagement

UCLan Programme Guided by:

Atkins
NSAN
COGENT
IAEA
HLSP
UCLan Nuclear Team Experience

What can UCLan do to help you deliver your goals?
Thank You