

Construction

Foundation Degree in Building Services and Sustainable Engineering

Core modules:

- Engineering Analysis 1 (Maths)
- Building Structures
- Building Services Engineering Science
- Sustainability/Waste Management
- Electrical Services Design
- Mechanical Engineering Design
- Engineering Analysis 2 (Maths)
- Construction Management and Procedures
- Utility Services
- Building Services Engineering Systems
- Health and Safety Management
- Engineering Analysis 3 (Maths)
- Project Management
- Individual Integrative Project
- Group Integrative Project

INSTITUTION

University of Central Lancashire

SKILLS DEMAND

A major interest of the employers has been to shorten the period of educating and training of Building Services Engineers, by getting an alternative route through the FdSc course, instead of the traditional HNC path. This project is meeting employer demand by developing a Foundation Degree in Building Services and Sustainable Engineering. The programme will offer flexible and accessible progression routes in order to address the Management and Leadership skills needs of the Building Services Sector, particularly the skills gap between craft and first line supervisory levels and middle management.



"I think this is a good opportunity to put in place the correct training/education programs."

Mike Green, Technical Director, White Young Green

COLLABORATIVE ACTIVITY

University of Central Lancashire (UCLAN) has been running degree courses in Building Services Engineering for over twenty years. Currently it runs a Bachelor of Engineering with Honours in Building Services and Sustainable Engineering and a Master of Science in Building Services and Sustainable Engineering courses. These programmes are accredited by the Chartered Institution of Building Services Engineering. Thus, UCLAN is adequately placed in offering a Foundation Degree in Building Services Engineering giving seamless entry and exit routes through its existing degree programmes.

A number of meetings were held at UCLAN with the employers to identify the industry's real need for the type of training that Foundation Degree in Building Services Engineering will provide. Consequently, letters were sent out to employers to request their feedback. This revealed a strong demand for supporting this initiative and showing interest in getting involved in the development of the Foundation Degree in Building Services and Sustainable Engineering at the University of Central Lancashire.

The university is working closely with a consortium of companies, including, consultants (both small local and large national), manufacturers, local authorities, contractors, facilities managers and various industry bodies. This connection with the industry is vital to ensure the curriculum will be aligned with the work that the graduates will be expected to undertake and the content of the course being reviewed as and when needed.

Employers involved include: B.E.S Design, BAE Systems, Sellafield, Cundall Johnston & Partners, White Young Green, Vita Lend Lease British Nuclear Group.

INNOVATIVE FEATURES

- Flexible modes of delivery: (i) fully in-house at UCLAN (ii) fully franchised to partner Further Education colleges or (iii) partly franchised and partly delivered by UCLAN.
- Learning through project work will be encouraged, as this is how the student will be expected to operate in the work environment.
- Producing real scenarios and solutions with the appropriate documentation for real projects and close links with the industry will allow the students to access knowledge of the many different aspects of the industry.
- Using visiting lecturers who are actively employed in the industry will be encouraged.

TARGET AUDIENCE

This project will utilise the evolving National Occupational standards in Emerging and Environmental Technologies, and will provide a pathway to HE for individuals employed in craft and technician occupations who do not currently possess current academic recognised credit. This degree is also designed to act as a bridge to qualifications such as a BEng (Hons) in Building Services and Sustainable Engineering, which in turn provides students with the academic requirements for membership of the industry's professional body, the Chartered Institution of Building Services Engineers (CIBSE).

WHO CAN I CONTACT FOR MORE INFORMATION?

If you would like to find out more details about this course, please visit the website at Tameside College, Burnley College, Accrington and Rossendale College, Wigan and Leigh College, and UCLAN.

For more information about this course development, please contact: Darius Tabrizi on 01772 894223 or email:

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