



NUI Galway
OÉ Gaillimh



Successful Solutions

MODULAR PROGRAMME IN TECHNOLOGY STUDIES

The key to success is striking a balance between knowledge and experience. You've worked hard at your career, but in order to really excel you need a recognised qualification.

The **Modular Programme in Science & Technology Studies** is a part-time programme which focuses on the knowledge and skill requirements of high-tech industries. The modular structure is designed with flexibility in mind, enabling you to balance study with work and other commitments and to accumulate credits over a time frame that suits your lifestyle. Learning is delivered by a blend of distance and online resources, on-campus tutorials and labs, and company-based projects.

THE PROGRAMME OFFERS AWARDS AT A LEVEL TO SUIT YOU:

- **B.Sc. in Science & Technology Studies**
- **Diploma in Science & Technology Studies**
- **Specialist Diploma awards:** Lean & Quality Systems, Environmental Sustainability, Medical Device Science, Form & Function of the Human Body
- **Continuing Professional Development credit** for modules taken on a standalone basis for the purposes of up-skilling or refreshing your knowledge in a specific area

For information on our range of awards, start dates and application details visit our website www.modularbsc.ie or contact our Programme Administrator niamh.mchugh@nuigalway.ie

www.modularbsc.ie

MODULAR PROGRAMME IN SCIENCE & TECHNOLOGY STUDIES

This is the programme for you if:

- You are interested in the dynamic areas of Science and Technology
- You are employed, or seeking employment, in a variety of technology-rich industries, such as medical devices, high-end manufacturing and biotechnology
- You want to up-skill and advance your career, or move into a management role
- You want to re-skill for career change or specialisation in strong or emerging growth sectors
- You want to achieve a widely recognised qualification from a highly respected University but require a flexible study programme

The programme aims to:

- Deliver industry lead learning in a flexible manner
- Provide you with a comprehensive grounding in the foundations of Science and Engineering
- Introduce you to areas of applied and specialist knowledge found in today's high-tech environments
- Develop important managerial tools such as problem-solving, decision-making and advanced communication skills

You'll find detailed programme content on our website: www.modularbsc.ie



DIPLOMA IN SCIENCE & TECHNOLOGY STUDIES

The Diploma consists of 20 modules to be completed over a minimum of 2 and a maximum of 4 years.

The modules on offer include:

- Core modules which cover the foundations of Science, Engineering, Management and IT
- Electives which allow you to specialise in an area of particular interest to you
- Company-based projects to help you apply your learning in the work-place

ENTRY REQUIREMENTS

Applicants under 21 years of age on 1 January in the year of application must have a minimum of 2 honours and 4 passes in the Leaving Certificate or equivalent. Other applicants may enter as mature students in which case the Leaving Cert may not be required, but a pass standard in Maths at Leaving Cert level is desirable.



DEGREE IN SCIENCE & TECHNOLOGY STUDIES

The Degree consists of an additional 20 modules to be taken over 2 to 4 years. The core modules are largely in the areas of production science, systems and operations management.

The elective streams will enable you to specialise and deepen your knowledge in the following areas:

- Medical Device Science
- Environmental Sustainability
- Form & Function of the Human Body
- Lean & Quality Systems
- Automation & Control
- Mechanical Design

ENTRY REQUIREMENTS

Applicants should have completed the Diploma in Science & Technology Studies or a related Diploma.



SPECIALIST DIPLOMA IN SCIENCE & TECHNOLOGY STUDIES

Specialist diploma awards at level 8 on the National Framework of Qualifications may be offered in the following areas on a cyclical basis depending on demand:

- Lean & Quality Systems
- Environmental Sustainability
- Medical Device Science
- Form & Function of the Human Body

Each stream consists of four modules and a project in a related topic of your choosing.

The specialist diplomas are particularly suitable for those requiring up-skilling for career advancement or focused re-skilling for career change. The Lean & Quality Systems course includes preparation for a green belt exam. Credit will be given for completed modules if you then decide to progress to the Degree.

ENTRY REQUIREMENTS

Applicants should have completed the Diploma in Science & Technology Studies or a related Diploma.

CONTINUING PROFESSIONAL DEVELOPMENT CREDIT IN SCIENCE & TECHNOLOGY STUDIES

Modules in the programme may be taken on a standalone basis if you wish to up-skill or develop your knowledge in a particular area. On completion you will receive a transcript to add to your professional portfolio or to use for credit towards other awards.

Popular modules for CPD purposes include:

- Introduction to Quality Management
- Regulatory Compliance
- Health & Safety Systems
- Environmental Impact Assessment
- Environmental Management Systems

ENTRY REQUIREMENTS

Applicants must satisfy the entry requirements for the cycle in which the module is delivered, i.e. Diploma or Degree, as listed opposite.

DIPLOMA CYCLE

CORE MODULES		COMPULSORY 16
1. Introduction to Learning	9. Information Technology	
2. Maths 1	10. Organisational Behaviour	
3. Maths 2	11. Intro to Management	
4. Statistics	12. Intro to Environmental Science	
5. Physics 1	13. Intro to Operations Engineering	
6. Physics 2	14. Operations Engineering	
7. Chemistry	15. Project 1	
8. Biology & Biotechnology 1	16. Project 2	

ELECTIVE MODULES		CHOOSE 4
Analytical Chemistry	Biology & Biotechnology 2	
Intro to Quality Management	Database Applications	
Intro to Management Science	Molecular Medicine	
Design of Engineering Systems	CAD Modelling	
Science, Technology & Innovation		

Qualification Awarded
DIPLOMA IN SCIENCE & TECHNOLOGY STUDIES

DEGREE CYCLE

CORE MODULES		COMPULSORY 12
1. Product & Process Development	7. Research Methodology	
2. Health & Safety Systems	8. Environmental Science	
3. Project Management	9. Regulatory Compliance	
4. Applied Innovation	10. Technology Innovation	
5. Management Information Systems	& Entrepreneurship	
6. Materials Science & Processes	11. Project 3(double module)	

ELECTIVE STREAMS		4 MODULES PER STREAM, CHOOSE 2
Mechanical Design	Medical Device Science	
Automation & Control	Environmental Sustainability	
Lean & Quality Systems	Form & Function of the Human Body	

These elective streams may also be taken as standalone Specialist Diplomas

Qualification Awarded
DEGREE IN SCIENCE & TECHNOLOGY STUDIES



The Atlantic University Alliance (AUA) is a collaboration between University College Cork, University of Limerick and NUI Galway. We have come together to provide a range of flexible, part-time programmes to suit your needs. All our programmes are industry focused and provide practical content for today's high-tech industries. So whether you want to study for a single module, a full Degree, or a Masters we've got a course to suit you.

Visit our website for all the details: www.aua.ie

STUDY AT YOUR OWN PACE AND AT TIMES THAT SUIT YOU BEST

This part-time programme is delivered using a blended approach. This means that you can study using a combination of distance and online materials, as well as attending face-to-face tutorials and lab sessions where you meet up with tutors and fellow students. You will have approximately ten contact hours of tutorials for each module being studied, normally on Saturdays. Tutorials take place in NUI Galway and subject to sufficient demand some may also be delivered in UL.

ALL THE SUPPORT YOU NEED ALONG THE WAY

We aim to provide a truly supportive learning environment every step of the way. You'll receive printed and online learning materials designed for independent study, supplemented by digital learning resources. We also provide individual support for our students from designated subject tutors. You will also have full access to all student services such as the library, careers service, sports facilities etc.

ASSESSMENT

Modules are assessed by a combination of assignments and learning activities during the semester and an exam at the end of the semester. The project modules are assessed completely by continuous assessment and are based within your own organisation where appropriate.

FEES

The EU fee is €380 per module. The fee for the Specialist Diploma in Lean & Quality Systems is €2,000 and for the other Specialist Diplomas is €1,900. Fees cover learning material, tuition and exams. The non-EU fee will include an additional payment of €500 per year. A number of scholarships may be available for applicants who have recently become unemployed. A separate application process will be required. Please see the web site for further details: www.modularbsc.ie

HOW TO APPLY

For an application form and full details visit our website www.modularbsc.ie or contact our Programme Administrator niamh.mchugh@nuigalway.ie