



Innovation & Technology Transfer



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Why study this module?

Study this module if you would like to make what you do relevant, interesting, improved or amazing. Too often innovation is a word that is thrown about in the boardroom, in this module we take a real-world approach to developing your ideas into business processes that can save or make money.

Module content

Aspects of innovation (history, theory and strategy) and technology (strategies, acquisition and assessment) will be covered by this course. Intellectual property and asset management, including issues surrounding contracts, licensing, transfer, negotiations and commercialization will also be explored. Included will be case reports tailored to the biomedical, biopharmaceutical and medical device sectors.

Learning outcomes

On completion of this module you should be able to:

- Establish the connection between innovation and technology transfer
- Identify several mechanisms to protect intellectual property
- Develop practical and effective technology transfer strategies
- Appraise marketable technology transfer opportunities

Who is the target audience?

Have you ever thought 'technology transfer' is only for boffins and elite business managers? Have you ever wondered what 'innovation' really means? The target for this module is anyone with a curious mind. Students who are working in a science or technology related environment will be well placed to benefit from understanding that there are no secrets to innovation and technology transfer, and this is the module which enables you to make innovation work for you in your career.

Module facts

Course level: Level 9

Module credit: 5 ECTS. Gain transcript or use towards PG Cert/PG Dip/MSc qualification in Biomedical Science

Duration: Over one semester

Entry Requirements: Please refer to the application section of the programme brochure

Fees: €1,000

Applying: www.nuigalway.ie/apply

Closing date: 2 – 8 weeks prior to module start date

Module topics

Strategic Innovation

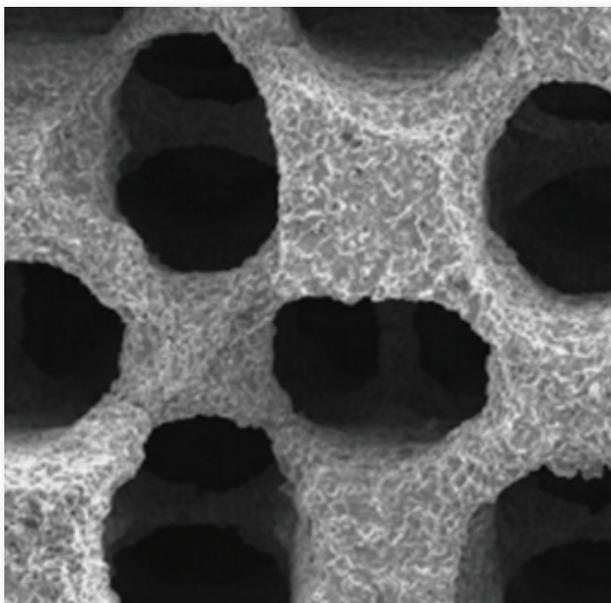
- Innovation & Creativity
- Business & Technology Strategies
- Generating Good Ideas
- Searching for Ideas that 'Fit'
- Screening & Assessing New Technologies

Protecting Intellectual Property

- Knowledge & Intellectual Assets Resources, Human Resources & Technology Resources
- Protecting Intellectual Property
- Licensing & Technology Transfer

Technology Transfer in Action

- Definitions & Principles of Technology Transfer
- Technology Transfer Negotiations
- Contracts & Collaborations
- Disclosure & Evaluation Agreements, Standards & Liabilities
- Commercialisation of New Technologies



Student testimonials



Patrick Power

Current position: Aerosol Scientist at Aerogen.

"I found the Innovation and Technology Transfer module offered as part of NUI Galway's MSc in Biomedical Science extremely relevant to the professional environment. It was highly differentiated from the other research based modules instead focusing on how to generate and bring inventions to market. The module covered the broad range of technology strategies focusing on internal and external considerations. Internal methods of idea generation and means of development and progression of the resulting ideas to granted IP were discussed and reinforced by an emphasis on the need to add value and match strategic alignment. More externally orientated topics were covered including means of assessment, acquisition and transfer of technology with attention paid to common pitfalls and how they may be best avoided. The module culminated in commercialisation strategies for these various forms of technology completing the journey from invention to market. These topics were well aligned with the challenges faced by any organisation focused on innovation as a means to gain competitive advantage. In my opinion the skills imparted through this module are of benefit to any budding inventor, innovator or entrepreneur."



Sandra Murphy

Current Position:

Product Development Technician with Amcor Flexibles Asia Pacific, Albany, NZ.

Position held while completing module:

Product Development Engineer with Amcor Flexibles Europe and America, Ireland.

"The Innovation and Technology Transfer Module was of particular interest to me due to its direct application within the manufacturing industry. I was literally in the process of completing developmental project involving the upgrade and installation of a new machine. The module enabled me to initially assess the type of developmental work I was completing. Later, it enabled me to critically analyse the project I had undertaken and identify ways in which this could have been performed better to minimise unnecessary time loss and investment. It also gave me better insights for how to go about future projects for the company. From the point of view of the actual teaching of the module, Maeve was an incredible lecturer and was extremely supportive and prompt with email responses. I found the lectures we had to be stimulating and extremely interactive, to the point it didn't actually feel like I was sitting in a room and trying to absorb large amounts of information in a very short space of time, yet we still covered the entire module! I couldn't praise this module enough, particularly for anyone who is interested in moving from academia into corporate roles. Another great thing about this module is that it is applicable worldwide which I verified when I moved to New Zealand. The same developmental processes are in use here that were in use in Ireland and so I have come to appreciate how valuable this module was to me and for my career progression."



Module Directors

Maébh Coleman

Maébh is a Lecturer in Innovation and Entrepreneurship at Edinburgh Napier University and previously worked with NUI Galway's Ignite TTO to manage the Accelerating Campus Entrepreneurship (ACE) Initiative which was a three-year collaborative project between DKiT, ITB, ITS, CIT and NUI Galway. She has worked in consulting and education for several years in many leading Irish institutes.

Maébh also has considerable experience in international trade, marketing, project management and high-tech procurement. Originally hailing from the midlands, Maébh has lived overseas in Scotland, Australia and France while gaining several qualifications to Masters level in Business, Management and Communication. She is currently finishing her PhD.

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Dr. Kathryn Cormican

Kathryn Cormican is a lecturer in the College of Engineering & Informatics at NUI Galway. Her research interests lie in the areas of enterprise integration and technology innovation. Kathryn leads a number of European Union and industry funded research projects in this area. She has published over forty papers at international conferences and peer reviewed journals. Kathryn works closely with many leading organisations and SMEs helping them to diagnose, develop and deploy new processes and systems.

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