IMPERIAL

Module Specification

Basic details

UID		Cohorts covered (Earliest cohort)	2025-26
Long title	Innovation Management		
New code	ELEC70138	New short title	

Brief description of module *(approx. 600 chars.)*

This module focuses on the management of innovation by firms. The intent is for you to learn core concepts that can make innovation projects more successful, and to then apply those concepts to real business cases of known successes and failures. The module is particularly applicable if you are interested in working for, or learning about, technology-oriented companies but most of the principles are applicable to companies in all sectors.

Available as a standalone module/ short course? N

Statutory details

	ECTS	CATS	Non-credit	
Credit value	5	10	N	HECOS codes

FHEQ level: Level 7

Allocation of study hours

	Hours	
Lectures	20	
Group teaching	0	*Incl. seminars, tutorials, problem classes.*
Lab/ practical	0	
Other scheduled	2	*Incl. project supervision, fieldwork, external visits.*
Independent study	103	*Incl. wider reading/ practice, follow-up work, completion of assess*
Placement	0	*Incl. work-based learning and study that occurs overseas.*
Total hours	125	
ECTS ratio	25.00	

Project/placement activity

Is placement activity allowed? No

Module delivery

Delivery mode	Taught/ Campus	Other	
Delivery term	Term 1	Other	

Ownership

Primary department	Electrical and Electronic Engineering
Additional teaching departments	Business School
Delivery campus	White City

Collaborative delivery

Collaborative delivery? N

External institution	N/A
External department	N/A
External campus	N/A

Associated staff

Role	CID	Given name	Surname
Module Leader		Jack	Fraser

Learning and teaching

Module description

Learning outcomes

Upon successful completion of this module, you will be able to:
- develop and formulate managerial strategies to shape innovative performance
- utilise tools of innovation management to map and measure innovative activities
- diagnose different innovation challenges and make effective and ethically sound recommendations for resolving them
- employ different mechanisms to create and capture value from innovative efforts

Module content

Drawing on the experiences of innovative corporations, this module aims to equip you with the skills to organise and shape the innovation process within modern organisations. The module draws on insights from the Business School's vast research program on innovation, in the Business School's Innovation & Entrepreneurship group, as well as our experiences working with leading innovators, such as Uber, Syngenta, VTT, Linux, IBM, Arup and others. By the end of the module, you should be able to understand and interpret managerial strategies associated with different types of innovation. You should know the different ways of seeking to profit from your innovations and how best to organise the innovation process within the firm.

Learning and Teaching Approach

The module will be taught through assigned readings, lectures, and case discussions. We will analyze real companies as you learn to identify, generate, manage and exploit innovations in fast changing environments. You will often be placed in the role of a key manager or decision maker, and asked to address issues related to the creation and sustenance of innovation projects and/or new lines of business.

Assessment Strategy

This module is assessed by a combination of summative coursework. The group coursework (60%) will be broken down into a report and presentation. The remainder of the coursework (30%) will be a number of smaller group or individual assessments. A further 10% of the overall grade will be based on participation. Participation will be assessed based on the quantity and quality of participation in group acticvities and case discussions. Grading criteria for all assessment will be circulated at the start of the course. While there is no formal formative assessment, you will receive some feedback on in-class activities throughout the term such as case study analysis / participation that will help with learning.

Feedback

Feedback will be provided in line with College's best practice. For this particular module, feedback on your coursework will be provided within 2 weeks. Each returned coursework assignment will include written feedback. While there are no designated formative assessments in this module, you will receive some formative feedback on in-class activities which will support your learning in this module. You will be provided with a numerical mark for all assessments. These numerical marks will be provisional until after the Board of Examiners has met at the end of the programme

Reading list

Lepore. "The disruption machine," The New Yorker, 2014
King, Andrew A., and Baljir Baatartogtokh. "How useful is the theory of disruptive innovation?" MIT Sloan Management Review 57.1 (2015)
Goldstein, E. The undoing of disruption. Chronicle of Higher Education, 15 September 2015
Di Minin, A. and Faems, D., 2013. Building appropriation advantage: An introduction to the special issue on intellectual property management. California Management Review, 55(4)
Teece, D.J., 1986. Profiting from technological innovation: Implications for integration, collaboration, licensing and public policy. Research Policy 15: 285-305
Van Alstyne et al., "Pipelines, Platforms, and the New Rules of Strategy," Harvard Business Review, 2016
Economist, "The emporium strikes back,"
Staudenmayer et al., "Interfirm modularity and its implications for product development", Journal of Product Innovation Management, 2005
Tucci, C. L. "Open Innovation: An emerging and increasingly important topic." In Europe's Future: Open Innovation, Open Science, Open to the World. Brussels: European Commission, 2017, pp. 126-130
Afuah & Tucci, "Crowdsourcing as a solution to distant search," Academy of Management Review, 2012
Tucci et al., "When do firms undertake open, collaborative activities?" Industrial & Corporate Change, 2016
Sawhney, M., Wolcott, R.C. and Arroniz, I., 2006. The 12 different ways for companies to innovate. MIT Sloan Management Review, 47(3), p.75
Chesbrough & Tucci, "The Interplay between Open Innovation and Lean Startup, or, Why Large Companies

Required

Quality assurance

Date of first approval
Date of last revision
Date of this approval

Module leader: Jack Fraser

Notes/ comments

Office use only

QA Lead
Department staff
Date of collection

Date exported
Date imported

Assessment details

Grading method	Numeric	Pass mark	50%

Assessments

Assessment type	Assessment description	Weighting	Pass mark	Must pass?
Coursework	Group project pt 1: Group Report (3000 words)	40%	50%	N
Coursework	Individual coursework (2 submissions, 1000 words each)	30%	50%	N
Coursework	Participation	10%	50%	N
Coursework	Group Project pt 2: Group Presentation	20%	50%	N
		100%		