

國立清華大學工業工程與工程管理學系

NATIONAL TSING HUA UNIVERSITY, DEPARTMENT OF INDUSTRIAL ENGINEERING AND ENGINEERING MANAGEMENT

第三十五期 推廣教育碩士學分班

(102.9.27-103.1.24)

課程簡介

課程編號	IEEM102012	類別	☒ 必修(碩士在職專班) ☐ 選修	
課程名稱	創新研發管理 Innovation and R&D Management		學分數	3
			總時數	54
授課教師	姓 名	朱詣尹 教授	學 歷	美國伊利諾大學工業工程博士
	專 長	科技管理、專案管理、同步工程管理		
上課時段	每週二 晚上 6:30~9:30		上課教室	工程一館 901 室
先修課程	☒ 否 ☐ 建議_____ ☐ 必備_____		人數上限	40 位
課程目標	This course is intended to introduce the concept and principle for effective management of innovation and R&D that is becoming the prime opportunities and the competitive advantages for the technology-based business. The class will review and discuss the key issues and related cases with a view to bridge the engineering and business considerations, along with the presentation of selected approaches, methods and tools to enable effective management of product and process innovation and development.			
課程大綱	1.Course Preview: Business Logic of Innovation 2. Building Capabilities for Innovation: R&D to Commercialization 3.Creativity & Disruptive Innovation 4.R&D Comes to Services & Designing Service Model 5. Designing Innovation & Development Strategies & Processes: Design Thinking & Collective Creativity 6.Develop Structured & Flexible Process 7.Design for Excellence 8.Creating Project Plans & Portfolio to Focus Innovation and Development 9.Business Partnership & Productive Friction 10. Eco-Innovation & Sustainable Development 11. Managing Innovation & Development Networks: Global Product Development Practice 12. Platform-based Open Innovation & Open Business Model 13. Managing Innovation in Multi-Invention Context 14. Managing Innovation Network 15. Term-Project Presentation/Review 16. Final Review/Speech			
參考書	Selected cases and articles			
對應之本系課程規畫所欲培養之核心能力	工工專業與系統分析能力 (30%) 自我充實能力 (10%) 創新研究能力 (30%) 國際互動能力 (15%) 領導與協調能力 (15%)			