國立高雄科技大學
NATIONAL KAOHSIUNG UNIVERSITY OF SCIENCE AND TECHNOLOGY
授課大綱 Syllabus

部別 : 日間部博士 | 110學年度第2學期 | 列印日期 : 2022/01/21

中文課程名稱 : 科研創新管理實務	英文課程名稱 : Project Management for Science and Technology Researches	授課教師 : 林啟燦、黃文彥
開 課 班 級 : 海事產學博班一甲	學 分 : 3.0	授課時數 : 3.0
合 班 班 級 : 海環所一甲,海環所二甲,輪機所一甲,輪機所二甲,海資所		實習時數 : 0.0

1.中文教學目標(Chinese Teaching objectives)

1.使學生具有科技研發創新之專案管理知識以及實務作業能力 2.有助於博士論文或碩士論文

2.英文教學目標(English Teaching objectives)

1.Provide students with project management knowledge and practical skills in scientific research and development 2.Contributes to a doctoral or master's thesis

3.中文教學綱要(Chinese CourseDescription)

1.使學生瞭解專案定義 2.使學生具備專案管理相關知識以及能力 3.使學生具備專案管理整合應用基本概念 4.使學生提高取得專案管理相關證照能力 5.使學生加強邏輯思考提升職場競爭能力

4.英文教學綱要(English CourseDescription)

1.Let students understand the project definition 2.Enhance students with project management related knowledge and abilities 3.Let students with the basic concepts of project management integration and application 4. Enable students to improve their ability to obtain project management related licenses 5. Enabling students to strengthen logical thinking and improve workplace competitiveness

5.中文核心能力

	核心能力名稱	核心能力百分比
1	工程知識	30%
2	海洋科技	30%
3	工程實務	40%

6.英文核心能力

	核心能力名稱	核心能力百分比
1	Engineering knowledge	30%
2	Maritime technology	30%
3	Engineering practice	40%

7.教科書

1
中文書名 : 專案管理知識體系指南 第六版 英文書名:Guide to the Project Management Body of Knowledge Guide 6th Edition
中文作者 : 美國國際專案管理學會 英文作者:Project Management Institute
中文出版社 : 美國國際專案管理學會 英文出版社:ISBN 978-986-91851-3-4
出版日期 : 年 月 備註:

8.參考書

1 中文書名 : 英文書名:Agile Practice Guide (ENGLISH)
中文作者 : 英文作者:Project Management Institute

中文出版社 ： 英文出版社：Project Management Institute
出版日期 ：年 月 備註：

9.教學進度表

週次或項目 Week or Items	中文授課內容 Chinese Course Content	英文授課內容 English Course Content	分配節次 Assigned Classes	備註 Note
1	1.1 專案/project 1.2 專案管理/project management 1.3 專案管理知識體系/PMBOK	1.1 project 1.2 project management 1.3 PMBOK	3	
2	2.1 專案利害關係人/Stakeholders 2.2 專案生命週期/The project life cycle 2.3 組織對專案的影響/organizational structure	2.1 Stakeholders 2.2 The project life cycle 2.3 organizational structure	3	
3	3.1 流程/process 3.2 流程間之互動/process interactions 3.3 專案管理流程群組/project management process groups 3.4 啟動流程群組/initiating process group 3.5 規劃流程群組/planning process group 3.6 執行流程群組/executing process group 3.7 監視及控制流程群組/monitoring and controlling process group 3.8 結束流程群組/closing process group 3.9 專案結束/project ending	3.1 process 3.2 process interactions 3.3 project management process groups 3.4 initiating process group 3.5 planning process group 3.6 executing process group 3.7 monitoring and controlling process group 3.8 closing process group	3	
4	4.1 發展專案章程/develop project charter 4.2 開發專案管理計畫書/develop project management plan 4.3 引導以及管理專案執行/direct and manage project execution、監控專案工作/monitor and control project work、整合變更管制/perform integrated change control、結束專案或階段/close project or phase	4.1 develop project charter 4.2 develop project management plan 4.3 direct and manage project execution 4.4 monitor and control project work 4.5 perform integrated change control 4.6 close project or phase	3	
5	5.1 範疇之定義與規劃/define scope 5.2 建立工作分解結構/create work breakdown structure 5.3 範疇之驗證與控制/verify and control scope	5.1 define scope 5.2 create work breakdown structure 5.3 verify and control scope	3	
6	6.1 專案活動的定義/define activity 6.2 活動排序/sequence activities	6.1 define activity 6.2 sequence activities process	3	

	process 6.3 活動資源與工期預估/estimate activity resources 6.4 時程管制/control schedule	6.3 estimate activity resources 6.4 control schedule	
7-8	7.1 成本預估/estimate costs 7.2 預算編列/determine budget 7.3 成本管控/cost control	7.1 estimate costs 7.2 determine budget 7.3 cost control	6
9	8.1 品質規劃/quality plan 8.2 品質保證/quality assurance 8.3 品質管制/quality control	8.1 quality plan 8.2 quality assurance 8.3 quality control	3
10-11	9.1 人力資源規劃/human resource plan 9.2 籌組專案團隊/develop project team 9.3 專案團隊的發展與管理/development & management	9.1 human resource plan 9.2 develop project team 9.3 development & management	6
12	10.1 溝通規劃/plan communications 10.2 建立資訊發送機制/distribute information mechanism 10.3 績效報告/report performance 10.4 利害關係人的管理/manage stakeholder	10.1 plan communications 10.2 distribute information mechanism 10.3 report performance 10.4 manage stakeholder	3
13-14	11.1 風險管理規劃/project risk management 11.2 風險辨識/identify risks 11.3 定性風險分析/qualitative risk analysis 11.4 定量風險分析/quantitative risk analysis 11.5 風險回應規劃/plan risk responses 11.6 風險管制/monitor and control risks	11.1 project risk management 11.2 identify risks 11.3 qualitative risk analysis 11.4 quantitative risk analysis 11.5 plan risk responses 11.6 monitor and control risks	6
15-16	12.1 規劃/plan 12.2 執行/conduct 12.3 管理/administer 12.4 結束/close	12.1 plan 12.2 conduct 12.3 administer 12.4 close	6
17-18	13.1 願景和適用規範/vision and applicability 13.2 責任/responsibility 13.3 尊重/respect 13.4 公平/fairness 13.5 誠實/honesty	13.1 vision and applicability 13.2 responsibility 13.3 respect 13.4 fairness 13.5 honesty	3

10.中文成績評定(Chinese Evaluation method)

1.上課出席 30% 2.提問應答 20% 3.書報討論 20% 4.報告/簡報 30%

11.英文成績評定(English Evaluation method)

1 Attendance 30% 2 Q & A 20% 3 Discussion of books, newspapers and magazines 20% 4 report and/or presentation 30%

12.中文課堂要求(Chinese Classroom requirements)

一、講述　二、討論　三、議題教學
13.英文課堂要求(English Classroom requirements)
1.explain 2.discussion 3.issue teaching

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