## 國立陽明交通大學遠距教學課程—教學計畫大綱 The Teaching Plan for Distance Learning Courses of National Yang M

# The Teaching Plan for Distance Learning Courses of National Yang Ming Chiao Tung University

填表說明	:
Description	n

1.	開授遠距教學課程,應由開課單位擬具教學計畫,依課程規劃及研議程序辦理,經教務相關之校級會議通過後實
	施:木粉學計畫大個命 b 值至粉育部「大學校院課程網」。

The teaching plan for a distance learning course should be made by the course provider, based on the curriculum plan and study procedures, and then be submitted to a university-level meeting related to academic affairs for approval before the course can be conducted. It will be uploaded to the "University Curriculum Website" of the Ministry of Education.

2.	同一教師不得針對課程名稱或性質相近之課程再次申請授課時數加計。
	Teachers are not allowed to apply for additional teaching hours again using their courses with similar titles or natures.

	113學年度 第1學期 :Semester of Academic Year
Offering the	「遠距課程」:■是(請續勾選下題一或題二) □否(以下免勾選) "Distance course" for the first time: check the boxes in Table 1 or 2 below) □No (no need to check the following boxes)

▶ 請教師先確認本次申請加計 1.5 倍之課程 □是 ■否 為「課程名稱」或「性質相近」之課程

(不申請加計 1.5 倍者免填)

Please confirm that the course for which you are applying for 1.5 times teaching hours this time is a cours of the same "course name" or of "similar nature" (yes or no)

(if not applicable, there's no need to check the boxes below)

- 1、 此為<u>上或下學期</u>首次開設遠距課程,是否要申請加計授課時數 1.5倍:■要申請 □不申請 This is the first time you're offering a distance course in <u>the first or second semester</u>. Do you need to apply for 1.5 times teaching hours: □Yes □No
- 2、此為<u>暑期</u>首次開設遠距課程,是否要申請加計授課時數 1.5 倍:(非暑期課程免填)
  This is the first time you're offering a distance course in <u>the summer term</u>. Do you need to apply for 1.5 times teaching hours: (if not applicable, there's no need to check a box below)
  - □要申請(不支領暑期授課鐘點費,改列計為次學年授課時數加計 1.5 倍)
  - □Yes (I don't want to get paid for the summer course. Instead, I'd like to have it credited to the teaching hours in the following academic year.)
  - 不申請
  - □ No

#### 壹、課程基本資料 (有包含者請於□打√)

1. Basic information (Check a box if applicable)

	asic intormation (check a box in a			
1	課程名稱 Course name	開發智慧照護新藍海		
2	課程英文名稱 Course name in English	Exploring a new blue ocean through the development of smart care		
3	永久課號 Permanent Course ID	NSCN30089		
4	當期課號 Course Number	131714		
5	教學型態 Teaching style  *本校遠距教學課程定義: *NYCU's definition of a distance learning course:  (1) 係指本校修課學生皆以遠距線上方式進行學習之課程。 A courses that is delivered remotely, meaning that students receive instruction online.  (2) 遠距(同步及非同步)授課時數超過總授課時數二分之一。 A course in which distance learning sessions (synchronous and asynchronous) account for more than half of its total teaching hours.	□非同步遠距課程 Asynchronous distance course ■同步遠距課程 Synchronous distance course 請填列本校課程主播而外校收播之校名與系所:(無則免填) If the course is broadcast by NYCU while received by other university, please fill in its name and department: (if not applicable, leave it blank) 外校名稱:		
6	授課教師姓名及職稱 Name and position of the teacher	(1) 姓名 Name: i 孫家偉 教授; ii 孫秀卿 教授; iii 陳俞琪 教授; iv 陳榮治 副教授; v 楊曼華 副教授; vi 石紀 博士 (2) 職稱 Position: i 生醫工程研究所所長; ii 臨床護理研究所所		
		長;臨床護理研究所;iv 生醫工程研究所; v 臨床護理研究所; vi 領証生醫股份有限公司 總經理		
7	開課單位名稱(或所屬學院及科 系所名稱) Name of the course provider (or the college and department)	主開系所 Main department offering the course: 臨床護理研究所 輔開系所 Department(s) offering assistance: 生醫工程研究所		

		■學士班 Bachelor's Degree Program
		■碩士班 Master's Degree Program
		■碩士在職專班 In-service Master's Program
		■博士班 PhD Program
8	課程學制	□學位學程(□四年制 □碩士班 □博士班)
°	Course structure	Degree program
		(□ 4-year program □ Master's program □ PhD Program)
		□學分學程 Credit program
		24 % 4 % = c. c.s.   F. c. S. s
		- 北日 4日 Common Cubicat
1		口共同科目 Common Subject
	ol make al	口通識科目 General Education Subject
9	科目類別	口校定科目 NYCU-determined Subject
	Subject Type	■專業科目 Professional Subject
		口教育科目 Educational Subject
	and the state of t	□其他 Others
1	選課別	□必修 Required ■選修 Elective □其他 Others
0	Course Type	三學分
1 1	學分數 No. of Credits	二字分
-	No. of Credits	每週二9、a、b 下午 17:30 - 20:30
		毎週二9、a、0 ドー 17.50 - 20.50
İ		*每週上課時數:同步遠距課程請填入每週「面授」及「同步」之合計
[		上課時數。若無法界定每週時數,填入每週平均時數(即學期總「面
		授」+「同步」時數除以總課程週數);非同步遠距教學,請填平均每
1	毎週上課時數	週非同步授課時數。
2	No. of teaching hours per week	
~	No. of teaching hours per week	*Teaching hours per week: For synchronous distance learning, please fill in the total hours of "face-to-face" and "synchronous" teaching sessions per
İ		week. If the teaching hours cannot be calculated, just fill in the average
		number of hours per week (total hours of "face-to-face" + "synchronous"
		sessions divided by the total number of the course weeks); for asynchronous
		distance learning, please fill in the hours of asynchronous teaching sessions per week.
1	開課班級數	開放碩博生、學士班高年級選修
3	No. of classes	Million Wild the A market A ma
	預計總修課人數	20 位
1	Expected No. of students taking	-
4	the course	
1	全英語教學	- 7 N
5	Course taught in English only	□ 是 Yes ■ 否 No
		□ E3 非同步遠距教學
	課程平臺網址(非同步教學必	E3 Asynchronous distance learning course
	填)	■E3 同步遠距教學
1	Course platform website	E3 Synchronous distance learning course
6	(required for asynchronous	□ E3&CS100 教室(同步)
	teaching)	E3 & CS100 classroom (synchronous)
		■其他 Others:_WEBEX / GOOGLE MEET

#### 貳、課程教學計畫

### 2. The Teaching Plan

			當試以社會需求題,透過「整體				
		2. 由岛	ā床照護需求為起	2點,透過用	護和資訊科技的	的專業評估,個	日人及
		團隊能	學習到如何進行為	割新的討論和	口思考。		
1.	教學目標	3. 透過1	臨床需求問題,	進行醫療與コ	C.程的對話,藉 E	由跨領域的團隊	合作
1.	Teaching objectives	來達成	創新醫療器材來的	解決臨床的認	京求。		
		4. 分組:	組成跨專業團隊主	進行課程,资	<b>查過發掘問題、</b>	了解問題,學習	引針對
		問題去	尋求最適切的解決	央方案。			
		5. 學習創新這個反覆重覆的過程,並在其中學習到承擔風險,並從失敗					
		中學到	經驗				
2.	. 適合修習對象 Target students	開放碩	博生、學士班高分	年級選修			
		(請填	寫每週次的授課P	內容及授課力	7式;授課方式前	青填時數)	
		(please fill in course contents and teaching method for each week; fill in					n
		number	of teaching hours	for the teacl			1
				<b>T</b>	授課方式及時數		
		1		Teaching methods and hours (請填時數,無則免填)			
			授課內容	(fill in the number of hours, leave it blank if you			
		週次	Contents of		t have anything to in		
		Week		面授	遠距	• •	
				Face-to- face	Distance 非同步	earning 同步	
3.	課程內容大綱	ļ.		teaching	Asynchronous	Synchronous	
J.	Course outline	1	課程介紹與課程內容說明			3	
		2	Biomedical Design 總論			3	
		<u> </u>					
		    3	需求評估與分 析/TEAM			3	
		3	WORK				
			評估智慧健康			3	
		4	照護相關議題				
			/ TEAM				,

Ì		11	WORK				
			台灣智慧照護			3	
		5	的現況應用與				
Į			可行性	)			
						3	i
			TEAM				
		6	WORK (小組	}			
			活動可彈性調				
İ			整時間)				}
		11	第五屆台北國				
			際照顧博覽會			,	
		7	(彈性安排參	3			ĺ
			訪時間) 9/12-				
			14				
		8	AI 人工智慧	•		3	
						3	
		9	期中口頭報告				
			腦力激盪產生	-		3	
			構想 & 構想	]			
		10	的篩選 /				
			TEAM	i			
		[	WORK				
			智慧財產權			3	
		11	& 專利基本				
			概念/ TEAM	i			
			WORK				
		]	TEAM			3	
		12	WORK (小組	1	ł		
			活動可彈性調	:			
		}	整時間)				
			醫材法規基本			3	
		13	概念				
			商業模型與募			3	
		14	資方式				,
			TEAM			3	
		15	WORK for			_	
		15	Final				
			Presentation				
		16	期末發表會			3	
		(有包	含者請打,可複立	題)			
		(Check a	box if applicable	; select one o	r more answer cl	noices)	
			(1) 提供線	上課程主要	及補充教材		
Λ .	教學方式		Main and supp	olementary te	aching materials	are provided fo	r
4.	Teaching methods		online courses				
		□ (2) 有線上教師或線上助教					
				_	assistants are av		
i			(3)提供線」	上非同步教學	:,次數:3	<b>火,總時數:_</b>	小

		時
		Online asynchronous teaching sessions are provided:
		time(s), with a total of hours
		■(4)提供面授教學,次數:1_次,總時數:3_小時
		Face-to-face teaching is provided:time(s), with a total of
ļ		
		hours
		■(5)提供線上同步教學,次數:15_次,總時數:45小時
		Online synchronous teaching sessions are provided:time(s),
1		with a total ofhours
		☐ (6) 其它:(請說明) Other options (Details here):
		1. 教科書 Textbooks: Biodesign: the process of Innovating medical
	教科書及參考書資	technologies
_	料	2. 講義 Handouts:
5.	Textbooks and	3. 參考資料 Reference materials:
	reference materials	4. 相關網站 Related websites:
		http://biodesign.stanford.edu/bdn/resources/video.jsp
		請勾選以下會使用之 E3 功能
}		Please check the E3 features that you will use
		■ 最新消息發佈、瀏覽 Releasing and browsing the latest news
		■教材內容設計、觀看、下載 Designing, viewing or downloading the
	於 E3 系統所提供	contents of teaching materials
	的學習活動	■成績系統管理及查詢 Managing and inquiring the system that keeps
6.	Learning activities	track of student grades
•	offered by the E3	進行線上測驗、發佈 Conducting or releasing an online test
	system	■學習資訊 Gaining access to learning information
ŀ	3,500111	│ □ 互動式學習設計(聊天室或討論區)Designing interactive
		learning (through a chat room or discussion forum)
		□ 各種教學活動之功能呈現 Presenting the benefits of all
ļ		teaching activities
		☐ 其他相關功能(請說明)Other features (Details here)
	師生互動討論方式	■線上討論 Online discussion:
	How teacher-	□ 面談 Face-to-face discussion:
7.	student discussion is	□ 其他 Others:
	conducted	
		(有包含者請打,可複選)
		(Check a box if applicable; select one or more answer choices)
		(1)提供線上說明作業內容 Offering online instructions on
1		how assignments should be done
	作業繳交方式	□ (2)線上即時作業填答 Allowing students to complete online
8.		assignments in real time
٥.	How assignments are submitted	■ (3)作業檔案上傳及下載 Allowing students to upload and download
	are submitted	
		assignments
		(4)線上測驗 Providing online tests
		[ (5)成績查詢 Allowing grade inquiry
		□ (6)其他做法(請說明)Others (Details here):
	成績評量方式	1. Attendance/Participation 20%
9.	How performance is	2. Midterm presentation 20%
	evaluated	3.Final presentation 20%

		4. Final Paper/Project 20%
		5. Team Evaluations 10%
		6. Teacher Evaluations 10%
10.	上課注意事項 Other classroom rules	Team work: 1.學生分組方式:需跨域背景組成,以 4-5 位學生為主。 (視修課人數情況分組) 2.Team tutors:以兩位授課老師跨域搭檔(護理+生醫工程),學生須提前與tutors 預約時間討論,tutors 角色是提供諮詢&輔導。 3.上課期間有提供 Team work 討論時間,如課程主題兩小時+小組討論一小時。

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申請教師簽章: 工多 Signature of applicant:

