

朝陽科技大學 092學年度第1學期教學大綱
Research Methods 研究方法

當期課號	7573	Course Number	7573
授課教師	王小璘	Instructor	WANG,HSIAO LIN
中文課名	研究方法	Course Name	Research Methods
開課單位	建築及都市設計研究所碩士在職專班一A	Department	
修習別	必修	Required/Elective	Required
學分數	3	Credits	3
課程目標	<p>研究方法是各種研究方法的集合，它包括全部研究過程中的每一部分。在長期歷史發展的過程中，人類歷經實際經驗和科學實驗。然而，人類的認知不能永遠停留在經驗上，而必須由感性世界邁向理性世界。可幸的是，隨著時代科技的發展，不僅人們對應用科學研究方法的認知提昇，且對科學研究方法學亦進行廣泛而深入的探索和研究。隨著科技的成熟，各領域所使用的研究方法亦趨於一致。這些方法與知識，對於後來的研究者而言，若給予適當的指點，使之及早了解科學研究的全部過程，可以減少以自己的經驗在有限的時間內去摸索以下課題：</p> <ol style="list-style-type: none"> 1.科學領域的研究方法 2.研究方法的原理和應用 3.如何撰寫學術論文 	Objectives	<p>“Research method” is a set of each single method which applying to each stage in the process of study. In the history of civilization, human beings have gained much practical experience and carried out many scientific experiments. The new technology has fostered new ways of doing research and brought along new research theory. However, few research methods are commonly used by different fields. It is highly recommended for students to learn these commonly recognized research methods as</p> <ol style="list-style-type: none"> 1.Theory and contents of research methods 2.Principles of research methods and their application 3.How to write a dissertation
教材	<p>本課程以Lecture & Discussion並重，激化學生的邏輯思考能力；配合講座單元提供相關資料，充實教學內容，同時就各單元進行操作，深化議題的內涵；利用戶外教學，強化研究課題的廣度；邀請專家學者或本所教授就其專長領域之研究方法作專題講座，以達致課程的完整性。</p>	Teaching Materials	<p>The course is designed for the students to have few academic discussions at the beginning. By applying the theory to the studies during the Master Degree years, students would establish the ability of thinking logically. Furthermore, experts and scholars will be invited to the class to share with students their experience on doing their research.</p>
成績評量方式	Unit*s regulations + Professor*s rules (e.g. attendance, Q & A, submission, notes, presentation # etc)	Grading	Unit*s regulations + Professor*s rules (e.g. attendance, Q & A, submission, notes, presentation # etc)
教師網頁	-		
教學內容	<p>UNIT 1. KEY ISSUES : Theory & Methodology本單元以”Research is a process of study in which a set of research methods is applied”的理念為基礎，對研究各階段常用的方法，由科學思維的形成至研究成果的表現方法，作一拋磚引玉的探討。主要內容包括：1.研究方法導論2.科學思維(哲學與邏輯方法)3.研究作業方法與應用4.研究資料蒐集方法與應用5.研究資料處理方法與應用6.研究成果表現形式</p> <p>UNIT 2. APPLICATION & OPERATION : Report, Note & Discussion本單元係配合上述方法之講授，由教師給定或學生研擬課題，執行操作演練，並進行多向討論，以落實方法之應用。</p> <p>UNIT 3. SPECIAL ISSUES: Sterring & Discussion本單元係配合課程單元，邀請專家學者或本所教授就其專長領域之作專題講座，或參加學術研討會（國內／國際）擇定專題作深入探討。</p>	Syllabus	<p>The content of the course is presented through the framework of the 3 main units involved. Unit1. key issues: theory & methodology1. Introduction of Research Methods2. Scientific Thinking 3. Research Operational Methods & Application4. Data Collection & Application5. Data Process & Application6. Interpretation & Writing Unit2. Application & Operation: Report, note, discussion Unit3. Special issues</p>

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