

学术硕士教学大纲

授课教师	CHEUNG CHOW NORBERT	性别	男	职称	高等学校教师	所在单位	机电与控制工程学院
授课对象	081100 控制科学与工程						
授课名称	科研方法及发表技巧（英文）					授课学时	40
课程类别	专业选修			考试方式	考试		
课程目标	<p>For a research student, getting the research work progress in the correct direction, and disassembling the research results to the scientific community, are perhaps the two most important things in their study.</p> <p>The aim of this subject is to help the students to achieve these two goals. Important contents include: research versus development, innovation ideas generation, prototyping tools, software tools, English for scientific reporting, presentation skills, publication skills, procedure, etc. are covered in this subject.</p> <p>This subject helps the students to get the research work progress in the correct direction and teaches them how to disassemble the research results for the scientific community in an effective manner.</p>						
教学内容	<ol style="list-style-type: none"> 1. Good English practice for scientific reporting 2. Good paper publishing practices 3. Effective presentation skills 4. Presentation at international conferences 5. Difference between research and development 6. How to generate innovative ideas 7. Technical paper writing issues 8. How to write an attractive proposal 9. Rapid Prototyping tools for implementation 						

	<p>10. Data gathering and processing</p> <p>11. Steps to conduct research</p> <p>12. Journals, proceedings, reports, patents,</p> <p>13. Academic integrity and IP rights</p> <p>14. What is a Ph.D. study?</p> <p>15. Steps to succeed in an overseas institutions research study</p>
<p>教学要点</p>	<p>The main objectives of this subject are:</p> <ul style="list-style-type: none"> • To help the students to improve their English technical paper writing capability. • To help the students find new ideas for high-level research. • To find ways of generating innovative ideas • To provide a clear understanding of (i) overseas research study issues; (ii) international scientific communities; and (iii) good publication and presentation

教学方法 及形式	<ul style="list-style-type: none">• Each student is required to submit a formal journal/conference paper, using the IEEE format.• Each student is required to produce a PowerPoint presentation, and they need to present it during the lecture.• Teaching methods include normal lectures, discussion/reflection, video supplements, and case study examples.• Students are assessed by: in-class tests, report/paper submission, and presentation performance.
必读书目	<p>Engineering Research: Design, Methods, and Publication 1st Edition Herman Tang (Author), Wiley, 2021</p>

<p>参考文献 目录</p>	<p>Numerous journal papers and conference proceedings, and patents will be brought up and discussed in the lecture, including:</p> <p>《The Craft of Research》 第四版（芝加哥寫作、編輯和出版指南）圖書 4th 版 WAYNE C. BOOTH, GREGORY G. COLOMB, JOSEPH M. WILLIAMS, JOSEPH BIZUP AND WILLIAM T. FITZGERALD ? 2016, Chicago Guides to Writing, Editing, and Publishing ISBN 13 碼: 978-0226239736</p> <p>研究論文 論文和學位論文寫作者的指導手冊 第9 版 《Chicago Style for Students and Researchers》（芝加哥寫作、編輯、出版指南）圖書 Paperback - 4 月 2018 A Manual for Writers of Research Papers, Theses, and Dissertations, Eighth Edition: Chicago Style for Students and Researchers (Chicago Guides to Writing, Editing, and Publishing) 8 版本, Kate L. Turabian (Author), Wayne C. Booth, Gregory G. Colomb, Joseph M. Williams. University of Chicago Press Staff, ISBN 13 碼: 978-0226816388</p>
<p>思考讨论 题</p>	<ol style="list-style-type: none"> 1. Who needs a Ph.D.? Is it worth it? 2. Why R & D are two different things? 3. Can innovation be taught? 4. What is a successful research goal?

教师签名: 年 月 日 专业负责人签字: 年 月 日