

Subject Code	BRE585	RESEARCH & CONSULTANCY TECHNIQUES FOR CONSTRUCTION & REAL ESTATE																																									
Level	5	Recommended Background Knowledge: Students are expected to possess knowledge of the construction and real estate industries such as would be acquired through study on a degree in a built-environment discipline.																																									
Contact Hours	24 (plus 18 hours by local tutors)*																																										
Student Effort Hours	186																																										
Assessment Method	Coursework 100%																																										
Credit Value	3																																										
Pre-requisites	Nil																																										
Co-requisites	Nil																																										
Exclusions	Nil																																										
Lecturer(s)/Dept.	Prof. Geoffrey Shen (BRE) Prof. Heng Li (BRE)																																										
Learning Outcomes: <ol style="list-style-type: none"> Property and construction industry problems need to be explored and defined before they can be solved. This involves a range of techniques which may be used by a researcher or consultant to contribute towards the solution of a real-world problem faced by management. The module aims to meet the need for construction personnel who can contribute to the identification business and project problems, to select appropriate techniques for their solution and to present or communicate their findings in a variety of ways. The module is designed to be of specific interest to those working on research or development projects. 																																											
Syllabus Content: <u>PROBLEM DEFINITION TECHNIQUES:</u> Structured and unstructured problems; soft and hard systems definition; concept formulation and mapping. <u>RESEARCH METHODS:</u> Types of research problems and appropriate methodologies; literature search techniques using bibliographic databases; evaluation, analysis and synthesis of literature for review of past research findings; data collection for qualitative and quantitative analysis; statistical analysis and significance/validity tests; validity and reliability issues in research design; peer review and refereeing in the research process. <u>COMMUNICATION AND PRESENTATION TECHNIQUES:</u> Preparation of research proposals; preparation of consultancy proposals; progress reports; planning of thesis and dissertation writing; lecture and seminar presentations; expert witness presentations in the Hong Kong legal system; professional obligations and liabilities in expert witness situations. <u>CASE STUDIES:</u> Preparation of a research/project proposal; Review of work in the project topic area; Expert evidence and preparation of reports on construction/property problems; Presentations for winning consultancy contracts.																																											
Learning and Teaching Approach: <table border="0" style="width: 100%;"> <tr> <td colspan="4">Contact Hours</td> </tr> <tr> <td style="padding-left: 20px;">Lectures/ Seminars / Role</td> <td style="text-align: right;">24 hours</td> <td colspan="2"></td> </tr> <tr> <td style="padding-left: 20px;">Play based workshop</td> <td></td> <td colspan="2"></td> </tr> <tr> <td style="padding-left: 20px;">Tutorial Classes (by local tutors) *</td> <td style="text-align: right;">18 hours</td> <td colspan="2"></td> </tr> <tr> <td colspan="4">Independent Study</td> </tr> <tr> <td style="padding-left: 20px;">Group Assignments/Case Study/Computing</td> <td style="text-align: right;">56 hours</td> <td colspan="2"></td> </tr> <tr> <td style="padding-left: 20px;">Self Study</td> <td style="text-align: right;">60 hours</td> <td colspan="2"></td> </tr> <tr> <td style="padding-left: 20px;">SMILE e-platform</td> <td style="text-align: right;">21 hours</td> <td colspan="2"></td> </tr> <tr> <td style="padding-left: 20px;">Study Groups</td> <td style="text-align: right;"><u>7 hours</u></td> <td colspan="2"></td> </tr> <tr> <td></td> <td style="text-align: right;">186 hours</td> <td colspan="2"></td> </tr> </table>				Contact Hours				Lectures/ Seminars / Role	24 hours			Play based workshop				Tutorial Classes (by local tutors) *	18 hours			Independent Study				Group Assignments/Case Study/Computing	56 hours			Self Study	60 hours			SMILE e-platform	21 hours			Study Groups	<u>7 hours</u>				186 hours		
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* Note: For Chongqing Cohort

