

## Module Specification

### Module Summary Information

<b>1</b>	<b>Module Title</b>	Research Methods
<b>2</b>	<b>Module Credits</b>	20
<b>3</b>	<b>Module Level</b>	7
<b>4</b>	<b>Module Code</b>	ENG7142

<b>5</b>	<b>Module Overview</b>
<p>The module aims to provide you with a foundation for academic research skills employed in all modules, but particularly the master's dissertation. This will enhance your learning experience providing a research output which is both industrially relevant, and contributes academic value to the research base of your chosen industry.</p>	

<b>6</b>	<b>Indicative Content</b>																		
	<table border="1"> <thead> <tr> <th>Lecture Topics</th> <th>Post-session Activity</th> </tr> </thead> <tbody> <tr> <td>Managing Research Projects</td> <td>Identification of proposed research topic/title.</td> </tr> <tr> <td>Academic Writing. Problem Definition, Aims &amp; Objectives.</td> <td>Identification of research question.</td> </tr> <tr> <td>Research Methodology – Research gaps, Rationale/Motivation</td> <td>Decide which methodological approach to use with justification.</td> </tr> <tr> <td>Research Methods &amp; Critical Thinking.</td> <td>Use tools from seminar to address data obtained from literature to include in presentation.</td> </tr> <tr> <td>Literature Review &amp; Critical Analysis – Tackling data</td> <td>Formulate sample data and tools for data analysis management to be used in literature review or research.</td> </tr> <tr> <td>Descriptive Statistics and Quantitative Analysis - Using Excel (<i>Supported by the Centre for Academic Success</i>).</td> <td>Complete data analysis using the tools used in seminar.</td> </tr> <tr> <td>Professional Skills &amp; Research Ethics, References &amp; Bibliography</td> <td>Using information from session, formulate discussion, recommendation and conclusion sessions.</td> </tr> <tr> <td>Presentation Skills &amp; Designing an Academic Poster</td> <td>Amend/Update poster presentation.</td> </tr> </tbody> </table>	Lecture Topics	Post-session Activity	Managing Research Projects	Identification of proposed research topic/title.	Academic Writing. Problem Definition, Aims & Objectives.	Identification of research question.	Research Methodology – Research gaps, Rationale/Motivation	Decide which methodological approach to use with justification.	Research Methods & Critical Thinking.	Use tools from seminar to address data obtained from literature to include in presentation.	Literature Review & Critical Analysis – Tackling data	Formulate sample data and tools for data analysis management to be used in literature review or research.	Descriptive Statistics and Quantitative Analysis - Using Excel ( <i>Supported by the Centre for Academic Success</i> ).	Complete data analysis using the tools used in seminar.	Professional Skills & Research Ethics, References & Bibliography	Using information from session, formulate discussion, recommendation and conclusion sessions.	Presentation Skills & Designing an Academic Poster	Amend/Update poster presentation.
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<b>7</b>	<b>Module Learning Outcomes</b>	
	<b>On successful completion of the module, students will be able to:</b>	
	<b>1</b>	Evaluate the conceptual nature of research philosophies & methods.
	<b>2</b>	Appraise existing literature to develop a literature review using appropriate research methods & techniques.
	<b>3</b>	Design a poster presentation, outlining integrated and analysed data using appropriate research methods & techniques.
	<b>4</b>	Make critical judgements on the applicability of appropriate professional skills and research ethics, within a given research context.

<b>8</b>	<b>Module Assessment</b>		
<b>Learning Outcome</b>			
	<b>Coursework</b>	<b>Exam</b>	<b>In-Person</b>
<b>1-4</b>	<b>X</b>		<b>X</b>

<b>9</b>	<b>Breakdown Learning and Teaching Activities</b>	
<b>Learning Activities</b>	<b>Hours</b>	
<b>Scheduled Learning (SL)</b> includes lectures, practical classes and workshops, peer group learning, Graduate+, as specified in timetable	36	
<b>Directed Learning (DL)</b> includes placements, work-based learning, external visits, on-line activity, Graduate+, peer learning, as directed on VLE		
<b>Private Study (PS)</b> includes preparation for exams	164	
<b>Total Study Hours:</b>	200	