

## Module Specification

### Module Summary Information

<b>1</b>	<b>Module Title</b>	Databases for Enterprise
<b>2</b>	<b>Module Credits</b>	20
<b>3</b>	<b>Module Level</b>	7
<b>4</b>	<b>Module Code</b>	CMP7204

<b>5</b>	<b>Module Overview</b>
<p>The module will provide you with theoretical and practical knowledge and skills in building a database system for an enterprise. As part of this module you will learn and critically reflect on the cycle of database systems development from understanding the needs of the enterprise through to design and development of database systems using industry based case studies and techniques.</p> <p><b>The module consists of:</b></p> <ul style="list-style-type: none"> <li>• Subject specific lectures/workshops to introduce knowledge and skills relevant to building database systems for an enterprise.</li> <li>• Lectures/workshops to introduce principles and techniques for the design and development of database systems in an enterprise.</li> <li>• Industry based case studies and practical examples of database design and development challenges and solutions.</li> </ul> <p><b>Relationship to programme philosophy:</b></p> <p>This module provides an opportunity for the student to develop knowledge and skills, which will contribute to the acquisition of key BCU graduate attributes; creative problem solvers, global outlook, enterprising, professional and work ready. In the context of the database systems for industries and at this academic level, this means an ability to: respond to a critical brief to find practical solutions to problems; evaluate and respond to the opportunities and challenges of interdisciplinary approaches to the realisation of a task; respond flexibly and imaginatively to a set, or group-determined brief within a fixed timescale.</p>	

<b>6</b>	<b>Indicative Content</b>
<ul style="list-style-type: none"> <li>• Database Design           <ul style="list-style-type: none"> <li>○ Understanding Enterprise Requirements</li> <li>○ Design and create Logical Data Structure</li> <li>○ Design and create Entity Relationship Diagram</li> </ul> </li> <li>• Database Development           <ul style="list-style-type: none"> <li>○ Develop and create Tables and Queries</li> <li>○ Database Optimisation</li> <li>○ Database Security</li> </ul> </li> </ul>	

<b>7</b>	<b>Module Learning Outcomes</b>	
	<b>On successful completion of the module, students will be able to:</b>	
	<b>1</b>	Critically evaluate the need for database systems in an enterprise
	<b>2</b>	Design a database systems for an enterprise
	<b>3</b>	Develop a database systems for an enterprise
	<b>4</b>	Apply advanced techniques to rationalise, optimise and secure the database system.

<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>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	48	
<b>Directed Learning (DL)</b> includes placements, work-based learning, external visits, on-line activity, Graduate+, peer learning, as directed on VLE	90	
<b>Private Study (PS)</b> includes preparation for exams	62	
<b>Total Study Hours:</b>	200	