

## Course Specification

Course Summary Information		
1	<b>Course Title</b>	MSc Digital Transformation
2	<b>BCU Course Code</b>	PT1572
3	<b>Awarding Institution</b>	Birmingham City University
4	<b>Teaching Institution(s)</b> (if different from point 3)	
5	<b>Professional Statutory or Regulatory Body (PSRB) accreditation</b> (if applicable)	

6	Course Description
	<p>Digital Transformation is an innovative MSc degree course designed for those who want to pursue careers as managers and leaders in implementing technology-based information systems solutions and managing technological transformation within organisations.</p> <p><b>What's covered in the course?</b>            Digital Transformation Specialists must understand the complex relationships between people, information, processes and technology in order to support business with digital development. The course will equip you with the requisite multi-dimensional skillset necessary to help organisations unleash their potential to thrive in an inclusive digital society aligned with the innovative application of digital technology to transform organisations, industries and societies.</p> <p>You will learn:</p> <p><b>Strategic IS Planning:</b> How to develop a strategic IS/IT plan that is aligned to the strategic information needs of the business.</p> <p><b>Enterprise Systems:</b> How to manage the business processes to support the organisation to gain competitive advantage, improve performance, reduce operational cost, implement efficient business processes, and improve real-time decision-making capabilities via Enterprise Systems (ES), which incorporates ERP, CRM, SCM, and so forth.</p> <p><b>Technology Optimisation and Integration:</b> How to analyse the current business IT status, plan technology solutions and develop a roadmap for legacy systems migration.</p> <p><b>Digital Change Management:</b> How to address the socio-technology challenges of leveraging value from the IS/IT in the digital society using agile methods. This involves making sense of the business requirements in order to ensure the end products will solve the business problem.</p> <p><b>Business Intelligence and Technology Entrepreneurship:</b> How to manage and apply a range of visualisation tools to analyse and make business sense of data lakes, and to exploit data to construct informed business decisions.</p> <p><b>Principles of Project Management:</b> How to deliver strategic value within an organisation and ensure the project (or business solution) is completed on time, within budget, within scope and at the desired performance level.</p>

	<p><b>Individual Master’s Project:</b> A practice-based module working in collaboration with an organization or research-based project within the Socio-Technical Systems Research group to apply multi-disciplinary skills to design innovative solutions to the challenges of digital transformation.</p> <p>To further recognise the significance of employability and to complement the academic content of this programme you are also provided the opportunity to undertake SAP Certification Enterprise Resources Planning (ERP).</p> <p>Graduates from the course will be equipped for careers in a range of sought-after positions including: Junior Consultant, Project Manager, Change Analyst, Digital Transformation – Business Analyst, Business Intelligence Analyst and Digital Transformation Leader.</p>
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<b>7</b>	<b>Course Awards</b>		
<b>7a</b>	<b>Name of Final Award</b>	<b>Level</b>	<b>Credits Awarded</b>
	Master of Science Digital Transformation	7	180
	Master of Science Digital Transformation with Professional Placement	7	240
<b>7b</b>	<b>Exit Awards and Credits Awarded</b>		
	Postgraduate Certificate Digital Transformation	7	60
	Postgraduate Diploma Digital Transformation	7	120

<b>8</b>	<b>Derogation from the University Regulations</b>		
	Not applicable		

<b>9</b>	<b>Delivery Patterns</b>		
<b>Mode(s) of Study</b>	<b>Location(s) of Study</b>	<b>Duration of Study</b>	<b>Code(s)</b>
Full Time September	City Centre	12 months	PT1572
Full Time January	City Centre	12 months	PT1572
Part Time September	City Centre	24 months	PT1573
Part Time January	City Centre	28 months	PT1573
Full Time January ‘with Professional Placement’	City Centre (and placement provider)	18 months	PT1574
Full Time September ‘with Professional Placement’	City Centre (and placement provider)	18 months	PT1574

<b>10</b>	<b>Entry Requirements</b>
<p>The admission requirements for this course are stated on the course page of the BCU website at <a href="https://www.bcu.ac.uk/">https://www.bcu.ac.uk/</a>.</p>	

<b>11</b>	<b>Course Learning Outcomes</b>
<b>Knowledge and Understanding</b>	
<b>1</b>	Demonstrate knowledge of advanced theories, concepts and principles relevant to the development and operation of information systems (IS) and, in particular, Enterprise Systems within a socio-technical context.
<b>2</b>	Express a detailed understanding of the key tools, technologies and techniques in the design and implementation of effective enterprise systems.
<b>3</b>	Communicate advanced knowledge of emerging trends in manufacturing, logistics, project management and intelligent systems.
<b>4</b>	An awareness of social, cultural, environmental, ethical and regulatory aspects related to management of information systems.
<b>Cognitive and Intellectual Skills</b>	
<b>5</b>	Apply advanced knowledge to analyse the requirements for business processes, technologies and standards for designing secure management information systems.
<b>6</b>	Evaluate information systems solutions, strategies and business models and make recommendations for their development and deployment to meet business goals.
<b>7</b>	Argue rationally and draw independent conclusions based on a rigorous, analytical and critical approach to the design and implementation of enterprise information systems.
<b>Practical and Professional Skills</b>	
<b>8</b>	Apply the principles, methods and tools of systems design to develop enterprise systems that meet business needs.
<b>9</b>	Assess software modelling tools and techniques for the design and evaluation of business processes and organisation domain problems.
<b>10</b>	Utilise software tools and analytical techniques to monitor and assess the operations management of an organisation.
<b>11</b>	Apply project management methods and techniques and effectively communicate information to implement and manage enterprise systems.
<b>Key Transferable Skills</b>	
<b>12</b>	Manage learning and self-development, including time management and prioritise work when tackling and solving complex problems.
<b>13</b>	Communicate effectively in writing, orally and in presentations to specialist and non-specialist audiences.
<b>14</b>	Systematically research a topic, synthesising and critically evaluating documents from a variety of web-based and traditional sources.
<b>15</b>	In cooperation with others, plan and implement tasks at a professional level and contribute to team goals through making sound judgements.

<b>12</b>	<b>Course Requirements</b>																														
<b>12a</b>	<p><b>Level 7:</b></p> <p><i>In order to complete this course a student must successfully complete all the following CORE modules (totalling 180 credits):</i></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="background-color: #ffffcc;">Module Code</th> <th style="background-color: #ffffcc;">Module Name</th> <th style="background-color: #ffffcc;">Credit Value</th> </tr> </thead> <tbody> <tr> <td>CMP7177</td> <td>Enterprise Systems</td> <td>20</td> </tr> <tr> <td>CMP7236</td> <td>Technology Optimisation and Integration</td> <td>20</td> </tr> <tr> <td>CMP7212</td> <td>Strategic Information Systems Planning</td> <td>20</td> </tr> <tr> <td>CMP7211</td> <td>Digital Change Management</td> <td>20</td> </tr> <tr> <td>CMP7180</td> <td>Business Intelligence and Technology Entrepreneurship</td> <td>20</td> </tr> <tr> <td>ENG7143</td> <td>Principles of Project Management</td> <td>20</td> </tr> <tr> <td>CMP7200</td> <td>Individual Master's Project</td> <td>60</td> </tr> </tbody> </table> <p><b>Level 6:</b></p> <p><b>In order to qualify for the award of MSc Enterprise Systems Management with Professional Placement, a student must successfully complete all of the Level 7 modules listed above as well as the following Level 6 module:</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="background-color: #ffffcc;">Module Code</th> <th style="background-color: #ffffcc;">Module Name</th> <th style="background-color: #ffffcc;">Credit Value</th> </tr> </thead> <tbody> <tr> <td>PLA6004</td> <td>Professional Placement</td> <td>60</td> </tr> </tbody> </table>	Module Code	Module Name	Credit Value	CMP7177	Enterprise Systems	20	CMP7236	Technology Optimisation and Integration	20	CMP7212	Strategic Information Systems Planning	20	CMP7211	Digital Change Management	20	CMP7180	Business Intelligence and Technology Entrepreneurship	20	ENG7143	Principles of Project Management	20	CMP7200	Individual Master's Project	60	Module Code	Module Name	Credit Value	PLA6004	Professional Placement	60
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**12b Structure Diagram**
**Full-time September**

<b>Year 1 1<sup>st</sup> Semester (Sept – Dec)</b>	Enterprise Systems (20 credits)	Technology Optimisation and Integration (20 credits)	Principles of Project Management (20 credits)
<b>Year 1 2<sup>nd</sup> Semester (Jan – May)</b>	Digital Change Management (20 credits)	Business Intelligence and Technology Entrepreneurship (20 credits)	Strategic Information Systems Planning (20 credits)
<b>Year 1 3<sup>rd</sup> Semester (May- Sept)</b>	Individual Master's Project (60 credits)		

**Part time September**

<b>Year 1 1<sup>st</sup> Semester (Sept – Dec)</b>	Enterprise Systems (20 credits)	Technology Optimisation and Integration (20 credits)
<b>Year 1 2<sup>nd</sup> Semester (Jan – May)</b>	Digital Change Management (20 credits)	Strategic Information Systems Planning (20 credits)
<b>Year 2 1<sup>st</sup> Semester (Sept – Dec)</b>	Principles of Project Management (20 credits)	
<b>Year 2 2<sup>nd</sup> Semester (Jan – May)</b>	Business Intelligence and Technology Entrepreneurship (20 credits)	Individual Master's Project (60 Credits)
<b>Year 2 3<sup>rd</sup> Semester (May – Sept)</b>		

### Full time January

<b>Year 1 1<sup>st</sup> Semester (Jan – May)</b>	Enterprise Systems (20 credits)	Technology Optimisation and Integration (20 credits)	Principles of Project Management (20 credits)
<b>Year 1 2<sup>nd</sup> Semester (June - Sept)</b>	Digital Change Management (20 credits)	Business Intelligence and Technology Entrepreneurship (20 credits)	Strategic Information Systems Planning (20 credits)
<b>Year 2 1<sup>st</sup> Semester (Sept - Jan)</b>	Individual Master's Project (60 credits)		

### Part time January

<b>Year 1 1<sup>st</sup> Semester (Jan – May)</b>	Digital Change Management (20 credits)	Strategic Information Systems Planning (20 credits)
<b>Year 1 2<sup>nd</sup> Semester (Sept – Dec)</b>	Enterprise Systems (20 credits)	Technology Optimisation and Integration (20 credits)
<b>Year 2 1<sup>st</sup> Semester (Jan – May)</b>	Business Intelligence and Technology Entrepreneurship (20 credits)	
<b>Year 2 2<sup>nd</sup> Semester (Sept – Dec)</b>	Principles of Project Management (20 credits)	Individual Master's Project (60 credits)
<b>Year 3 1<sup>st</sup> Semester (Jan – May)</b>		

**Professional Placement - Full time January**

<b>Year 1 1<sup>st</sup> Semester (Jan – May)</b>	Enterprise Systems (20 credits)	Technology Optimisation and Integration (20 credits)	Principles of Project Management (20 credits)
<b>Year 1 2<sup>nd</sup> Semester (June - Sept)</b>	Digital Change Management (20 credits)	Business Intelligence and Technology Entrepreneurship (20 credits)	Strategic Information Systems Planning (20 credits)
<b>Year 2 1<sup>st</sup> Semester (Sept - Jan)</b>	Individual Master's Project (60 credits)		
<b>Year 2 2<sup>nd</sup> Semester (Jan - May)</b>	Professional Placement (60 credits)		

**Professional Placement - Full time September**

<b>Year 1 1<sup>st</sup> Semester (Sept - Dec – May)</b>	Enterprise Systems (20 credits)	Technology Optimisation and Integration (20 credits)	Principles of Project Management (20 credits)
<b>Year 1 2<sup>nd</sup> Semester (Jan - May)</b>	Digital Change Management (20 credits)	Business Intelligence and Technology Entrepreneurship (20 credits)	Strategic Information Systems Planning (20 credits)
<b>Year 2 1<sup>st</sup> Semester (May - Sept)</b>	Individual Master's Project (60 credits)		
<b>Year 2 2<sup>nd</sup> Semester (Sept - Jan)</b>	Professional Placement (60 credits)		

### 13 Overall Student Workload and Balance of Assessment

Overall student *workload* consists of class contact hours, independent learning and assessment activity, with each credit taken equating to a total study time of around 10 hours. While actual contact hours may depend on the optional modules selected, the following information gives an indication of how much time students will need to allocate to different activities at each level of the course.

- *Scheduled Learning* includes lectures, practical classes and workshops, contact time specified in timetable
- *Directed Learning* includes placements, work-based learning, external visits, on-line activity, Graduate+, peer learning
- *Private Study* includes preparation for exams

The *balance of assessment* by mode of assessment (e.g. coursework, exam and in-person) depends to some extent on the optional modules chosen by students. The approximate percentage of the course assessed by coursework, exam and in-person is shown below.

#### Level 7

##### Workload

##### % time spent in timetabled teaching and learning activity

Activity	Number of Hours
Scheduled Learning	294
Directed Learning	556
Private Study	950
<b>Total Hours</b>	<b>1800</b>

##### Balance of Assessment

Assessment Mode	Percentage
Coursework	70%
Exam	0
In-Person	30%