

Course Specification

Course Summary Information		
1	Course Title	MSc Broadcast Engineering
2	BCU Course Code	PT1091
3	Awarding Institution	Birmingham City University
4	Teaching Institution(s) (if different from point 3)	
5	Professional Statutory or Regulatory Body (PSRB) accreditation (if applicable)	

6	Course Description
	The broadcast engineering degree course will prepare you for a career in Broadcast Engineering, supporting you to continually improve your skills and the quality of service you provide. Through the programme, you will demonstrate technical, research, analytical, planning, design and organisational skills which are highly transferable and can be used in a wide variety of disciplines. What's covered in the course? Broadcast technologies are continually evolving and converging with other information and media distribution formats, including the web, games and virtual environments. The UK traditionally has a high calibre of recognition in the TV production and technology industries. Our course aims to capitalise on and maintain the UK expertise in this area, whilst continually evolving the delivery of technology in this rapidly changing area. Our broadcast engineering course is designed both to prepare you for a technical or commercial career and provide a route to the specialisation needed for a research career. It is also suitable for graduates of internet and communications related courses who have worked for several years and wish to update your knowledge at the forefront of the discipline. The programme is designed to enable you to develop a thorough technical and theoretical understanding, focusing on vocational and practical skills directly relevant to industry. Alongside the development of technical and analytical skills, you will also expand your team and professional development skills through group work, peer review and reflective evaluation, as well as consideration of legal and ethical issues. We are committed to supporting the broadcast industry and continue to work with and support key stakeholders. We also aim to act as a broker between industry, universities and students to place students in appropriate research positions and placements. The University is actively involved in Society of Motion Picture and Television Engineers (SMPTE) and we host SMPTE regional meetings at Birmingham City University.

7	Course Awards		
7a	Name of Final Award	Level	Credits Awarded
	Master of Science Broadcast Engineering	7	180
7b	Exit Awards and Credits Awarded		
	Postgraduate Certificate Broadcast Engineering	7	60
	Postgraduate Diploma Broadcast Engineering	7	120

8	Derogation from the University Regulations		
	Not applicable		

9	Delivery Patterns		
	Mode(s) of Study	Location(s) of Study	Duration of Study
	Full Time	City Centre	1 year
	Part Time	City Centre	24 Months
	Part Time BBC Course	City Centre	22 Months
			Code(s)
			PT1091
			PT0904
			PT0691

10	Entry Requirements
The admission requirements for this course are stated on the course page of the BCU website at https://www.bcu.ac.uk/.	

11	Course Learning Outcomes
Knowledge and Understanding	
1	Demonstrate knowledge of advanced theories and concepts relevant to the development and operation of commercial broadcast systems and technologies.
2	Express a detailed understanding of the underpinning tools, technologies and techniques of media formats and methods used in broadcasting systems.
3	Recognise the framework of relevant legal requirements and appropriate professional conduct related to the development and operation of commercial broadcast systems and requirements for media production.
Cognitive and Intellectual Skills	
4	Apply advanced knowledge, tools and techniques to investigate new and emerging technologies, tools, techniques and processes used in broadcast systems.
5	Assess the evolving market requirements and technical developments arising globally in broadcasting systems and applying these as a progressive and responsible practitioner with the ability to fulfil clearly defined needs, identifying relevant constraints.
6	Evaluate solutions, strategies and business models for the provision of timely and relevant interactive broadcast media solutions.
Practical and Professional Skills	
7	Synthesise knowledge, concepts and ideas and/or forms of creative expression, to deliver appropriate solutions to problems.
8	Design and develop innovative media services and solutions using appropriate tools and techniques applied at signal level, network level and in production applications.
9	Develop a working solution for the distribution of digital media products, including management of assets.
10	Select relevant test and measurement equipment and diagnostic software to analyse performance and ensure fitness for purpose.
Key Transferable Skills	
11	Schedule and monitor the development of an advanced project through the application of management practices.
12	Demonstrate the ability to work effectively as an independent learner, displaying insight when reflecting on personal and group practice.
13	Access information from a range of sources, appraise its suitability for master's level research, and formulate independent conclusions based on systematic analysis.

12	Course Requirements																								
12a	Level 7: <i>In order to complete this course a student must successfully complete all the following CORE modules (totalling 180 credits):</i> <table><tr><th>Module Code</th><th>Module Name</th><th>Credit Value</th></tr><tr><td>CMP7182</td><td>IP Network Technology</td><td>20</td></tr><tr><td>DIG7060</td><td>Studio and Broadcast Technology</td><td>20</td></tr><tr><td>DIG7061</td><td>Broadcast Workflow</td><td>20</td></tr><tr><td>DIG7062</td><td>Media Distribution Solutions and Architectures</td><td>20</td></tr><tr><td>DIG7063</td><td>Signal Compression and Encoding</td><td>20</td></tr><tr><td>DIG7064</td><td>Research Methods</td><td>20</td></tr><tr><td>DIG7200</td><td>Individual Master's Project</td><td>60</td></tr></table>	Module Code	Module Name	Credit Value	CMP7182	IP Network Technology	20	DIG7060	Studio and Broadcast Technology	20	DIG7061	Broadcast Workflow	20	DIG7062	Media Distribution Solutions and Architectures	20	DIG7063	Signal Compression and Encoding	20	DIG7064	Research Methods	20	DIG7200	Individual Master's Project	60
Module Code	Module Name	Credit Value																							
CMP7182	IP Network Technology	20																							
DIG7060	Studio and Broadcast Technology	20																							
DIG7061	Broadcast Workflow	20																							
DIG7062	Media Distribution Solutions and Architectures	20																							
DIG7063	Signal Compression and Encoding	20																							
DIG7064	Research Methods	20																							
DIG7200	Individual Master's Project	60																							

12b Structure Diagram

PT0691 / PT0904

Semester	Level 7		
Yr 1 S1	IP Network Technology 20 Credits	Studio and Broadcast Technology 20 Credits	
Yr 1 S2		Broadcast Workflow 20 Credits	Media Distribution Solutions and Architectures 20 Credits
Yr 2 S1		Research Methods 20 Credits	Signal Compression and Encoding 20 Credits
Yr 2 S2	Masters Project 60 Credits		

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Semester	Level 7		
1	IP Network Technology 20 Credits	Broadcast Workflow 20 Credits	Studio and Broadcast Technology 20 Credits
2	Media Distribution Solutions and Architectures 20 Credits	Research Methods 20 Credits	Signal Compression and Encoding 20 Credits
3	Masters Project 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	198
Directed Learning	264
Private Study	1338
Total Hours	1800

Balance of Assessment

Assessment Mode	Percentage
Coursework	50%
Exam	43%
In-Person	7%