Course Specification

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Produced By:	Laura Clode
Status:	Validated

Core Information

Awarding Body / Institution:	University of Wolverhampton		
School / Institute:	School of Architecture and Built Environment		
Course Code(s):	AT010P01UV AT010P31UV	Full-time Part-time	6 Months 1 Years
Course Title:	Postgraduate Certificate Building Information Modelling		
Hierarchy of Awards:	Postgraduate Certificate Building Information Modelling University Statement of Credit University Statement of Credit		
Language of Study:	English		
Date of DAG approval:	30/May/2017		
Last Review:	2015/6		
Course Specification valid from:	2010/1		
Course Specification valid to:	2021/2		

Academic Staff

Course Leader:	Dr David Heesom
Head of Department:	Mr Colin Orr

Course Information

Location of Delivery:	University of Wolverhampton
Category of Partnership:	Not delivered in partnership
Teaching Institution:	University of Wolverhampton
Open / Closed Course:	This course is open to all suitably qualified candidates.

Entry Requirements:

Entry requirements are subject to regular review. The entry requirements applicable to a particular academic year will be published on the University website (and externally as appropriate e.g. UCAS

For entry onto the Postgraduate Certificate programme

(Completion of which, with a minimum of grade C in all modules, will allow a student to progress to the Master's programme)

A pass at degree level.

Students are selected using application form and references in the first instance and may be invited for interview.

Students applying for individual modules will be required to demonstrate the ability to absorb technical concepts and detail, possibly by way of their previous industrial or commercial experience.

Minimum English competency is the standard Postgraduate entry: IELTS 6.0 or equivalent

Distinctive Features of the Course:

To help you meet the challenges presented by this fascinating and key area, the School of Architecture and the Built Environment not only supports you with a wealth of experience and unique expertise, it also gives you access to state of the art computer facilities including the Visualisation Centre equipped with high specification PC's, A 75" Multi touch table, Virtual Reality headsets, 3D laser scanning technologies and a 5m x 3m stereoscopic visualisation wall to allow you to work through BIM projects and see your projects in a whole new light. The department has enviable links with industry and software suppliers through research and Knowledge Transfer Partnerships. Where possible industry experts are used to support your learning and industry based projects are set for assessment to give you a flavour of the real world application of BIM.

Educational Aims of the Course:

The UK and Global construction industry is going through a period of dynamic change and since the introduction of BIM, the digital transformation to the industry is becoming prolific. Since 2016 Building Information Modelling (BIM) has to be adopted and utilised on centrally procured public projects and this is driving a need for people with strategic knowledge and skills in this exciting field. The aim of this course is to develop students with high-level knowledge and understanding of BIM. This new approach is strategically important for the UK and International Construction Industry and throughout the course students will develop a comprehension of how the BIM process works and how digital workflows are transforming the sector.

Intakes:

September
January

Major Source of Funding:

Office for Students (OFS)

Tuition Fees:

Tuition fees are reviewed on an annual basis. The fees applicable to a particular academic year will be published on the University website.

Year	Status	Mode	Amount
2020/1	EU	Full Time	£2134.00
2020/1	Overseas	Full Time	£4550.00
2020/1	H	Part Time	£2134.00

PSRB:

None

Course Structure:

January (Full-time)

Part time students study alongside full time students. However, they do not study more than 80 credits in each academic calendar year.

Year 1

Module	Title	Credits	Period	Type
7AT007	BIM for Renovation and Heritage	20	INYR	Core
7AT003	Building Information Modelling (Theory and Application)	20	INYR	Core
7AT006	Integrated BIM Project	20	INYR	Core

September (Full-time)

Part time students study alongside full time students. However, they do not study more than 80 credits in each academic calendar year.

Year 1

Module	Title	Credits	Period	Type
7AT003	Building Information Modelling (Theory and Application)	20	INYR	Core
7AT007	BIM for Renovation and Heritage	20	INYR	Core
7AT006	Integrated BIM Project	20	INYR	Core

Please note: Optional modules might not run every year, the course team will decide on an annual basis which options will be running, based on student demand and academic factors, to create the best learning experience.

Learning, Teaching and Assessment

Academic Regulations Exemption:

None

Reference Points:

QAA subject benchmark - Architectural Technology

QAA subject benchmark Land, Construction, Real Estate and Surveying

BIM Learning Outcome Framework (2015)

The framework for higher education qualifications in England, Wales and Northern Ireland (March 2010) Masters Degree Characteristics

The framework for higher education qualifications in England, Wales and Northern Ireland (October 2014) Part A Setting and maintaining Academic standards

Equality Act 2010

Learning Outcomes:

PGCert Course Learning Outcome 1 (PGCCLO1)

Demonstrate a systematic understanding and critical awareness of current and emerging CAD technologies in relation to the construction industry

PGCert Course Learning Outcome 2 (PGCCLO2)

Select and effectively implement an appropriate range of advanced software tools in order to produce architectural design and construction documentation including drawings, visualisations and presentations

PGCert Course Learning Outcome 3 (PGCCLO3)

Demonstrate high level skills and abilities to make use of generic and bespoke software tools, solving complex design problems and developing appropriate solutions for presentation to a range of audiences

PGCert Course Learning Outcome 4 (PGCCLO4)

Evaluate current research and scholarship within the general area of ICT for construction, critique current research methodologies and apply this knowledge to solve original problems

Overview of Assessment:

Module	Title	Course Learning Outcomes
7AT003	Building Information Modelling (Theory and Application)	PGCCLO1, PGCCLO4
7AT006	Integrated BIM Project	PGCCLO2, PGCCLO3
7AT007	BIM for Renovation and Heritage	PGCCLO1, PGCCLO2

Teaching, Learning and Assessment:

You will have the opportunity to engage with a range of learning approaches during the course of your study. You will take part in lectures and seminars. Some of these will be more traditional whereas others will require

you to undertake research before coming together to discuss technical issues with a range of students and academic staff. You will have seminars from industry practitioners and have the opportunity to discuss your projects with them to gain real world insight into the problems you are trying to solve.

You will work in a dedicated visualisation laboratory to develop practical skills and understand the link between the theory and practical implementation of a range of BIM tools and techniques. Throughout the weekly class sessions and through use of the on-line support material, you will obtain skills required to successfully implement the BIM process.

Often working on design briefs specified by industry practitioners, you will develop solutions to meet real world problems/requirements and present these to your peers to obtain group feedback.

Assessment Methods:

At the University of Wolverhampton, a variety of modes of assessment will be used to support and test your learning and progress and to help you develop capabilities that are valued beyond your University studies and into your working life. Your course may include a variety of assessment activities:

Written examinations (including online examinations, open and closed book examinations and quizzes)
Coursework (for example, essays, reports, portfolios, project proposals and briefs, CVs, poster presentation)
Practical (for example, oral and video presentations, laboratory work, performances, practical skills assessment)

In the final year of your undergraduate degree, and at the end of your postgraduate degree, you are likely to be expected to write an extended piece of work or research, such as a dissertation or a practice-based piece of research.

Student Support:

University provided support:

As well as providing general counselling support the University Counselling Service provides short courses on topics such as "Self Confidence", "Stress Management and Relaxation" and "Life Skills". They also provide study skills and academic support, providing short courses such as provide help in areas such as "Writing and Assignment Skills", "Exam Techniques", "Enhancing Professional Skills", "Personal Development Planning" and "Making Choices for the Future.

University Learning Centres provide general academic skills support to all students. You can make an appointment with a study skills advisor for advice on areas such as academic writing, assignment planning, exam preparation, and time management. In addition, there is a regular timetable of drop-in and bookable workshops covering information and digital literacy skills, including academic referencing. School of Technology students are supported by a designated subject librarian who is available to support research and project work.

Course support:

At the start of your course you will be assigned a Personal Tutor who will guide you through the induction process and provide support and academic counselling throughout your course on an appointment basis. They should be able to offer you advice and guidance to help you liaise with other staff and support facilities in the School and University.

The Student Support Advisers (SSA) provides academic counselling and will be accessible throughout the week on a drop-in or appointment basis to discuss timetables, requests for extensions, requests for extenuating circumstances, general concerns about study and student life and general programme planning. The SSA will act as a first point of contact in relation to leave of absence (including returning after leave), withdrawal, transferring to another course (internal and external) and changes to mode of attendance. Your Course Leader will be available thereafter for meetings by appointment to discuss leave of absence, withdrawal, transferring to another course (internal and external), changes to mode of attendance, returning

after leave of absence and direct entrants.

Subject support:

Tutorials, workshops, seminars and meetings - provide the primary opportunities for students to interact with staff on topics relating to modules. All modules provide at least one of these forms of face-to-face support.

Formative feedback - tutors provide personalised written feedback on most summative assessments. The mechanism for feedback from purely formative tasks varies between assessments, but will always be provided in some form. Online formative tasks often provide feedback straight away. On occasions tutors may provide generalised verbal feedback to the whole class on points relating to an assessment

Assessment and subject-based surgeries provide additional student support for subjects that students often need extra help with. They are often concentrated around the times when assessments take place. Revision sessions are provided for many modules that have exam-like tests and enable you to interact with tutors to review parts of the course. Mock exams and tests may provide opportunities to experience an examination environment before the final summative test and give you feedback on your understanding.

Employability in the Curriculum:

Students who complete the PgC will have a specific and relevant qualification in the field of BIM, which is currently of high importance for the industry. They will have the opportunity to further their study and progress to the MSc BIM for Integrated Construction if they desire.

We pride ourselves on a very high employability rate for our postgraduate students - potential employment opportunities for graduates include: architectural and interior design practices; civil engineering practices; local authorities; environmental management agencies; space-planning and office furniture companies; and design consultancies.