

Building Information Modelling (BIM) for Higher Education

By Sepehr Abrishami, MSc BIM course leader at University of Portsmouth

Accelerating global challenges and opportunities, the Architecture, Engineering, and Construction (AEC) industry faces ever more challenges to become more efficient and integrated. At the forefront of the response to such challenges, is the increasing use of Building Information Management & Modelling (BIM).

Construction projects are increasingly becoming more complex, often engaging new business processes and technological solutions in line with projects' requirements. Moreover, it is advocated that the AEC sector in particular is likely to require a myriad of increasingly advanced technologies in order to cope with future AEC projects.

Furthermore, global competition and the transdisciplinary nature of evolving AEC activities makes it progressively important to educate new AEC professionals with appropriate skill sets. These skills include the ability and capability of using new methods of construction in order to deliver novel design solutions and construction processes.

The UK Government has mandated level 2 BIM for its construction projects by 2016. To address this need, the industry requires broadly educated professionals who can lead these digital developments and face the challenges of the future. The Government in collaboration with the industry has already committed to the Level 2 BIM programme by 2016 and invested £220M in the development of a High Performance Computing programme, and over £650M in the delivery of transformational high speed Broadband across the UK which has been delivered by 2015. These have resulted in significant construction cost savings of £840M in 2013/4 (Cabinet Office).

ACCELERATING GLOBAL CHALLENGES AND OPPORTUNITIES, THE ARCHITECTURE, ENGINEERING, AND CONSTRUCTION (AEC) INDUSTRY FACES EVER MORE CHALLENGES

Despite the recent innovations in BIM and Lean construction and its burgeoning implementation in the field of practice, the academic sector as a whole has not yet fully acknowledged the importance of investing in BIM education, nor embraced it as an enabler.

In addition, the need for investing in BIM education has been intensified by the UK's recent impetus in adopting BIM across centrally procured public construction projects, as well as forthcoming milestones, which makes the UK be considered as one of the leading nations in the exploitation of BIM. This provides an opportunity for UK universities to align their pedagogical strategies with the government's.

For more details on the University of Portsmouth and its courses please contact the School of Engineering and Surveying on 023 9284 2555 or email: technology.admissions@port.ac.uk

MSc Building Information Management (BIM)



The Architecture, Engineering and Construction industry (AEC) is changing: Building Information Modelling and Management (BIM) is becoming the accepted standard for the design, build, and management of modern buildings and structures.



www.port.ac.uk

This course has been developed specifically to respond to the need for skilled and experienced BIM professionals, not only in the use of the technology, but in its implementation, from design, to procurement, to financial management and throughout the conception, construction, and the life of a building.

On this course you will:

- cover the fundamentals of project and financial management software such as Revit, CostX, and Synchro, as well as design software such as AutoCAD;
- learn how to integrate the technology and methodology of BIM with the established principles of planning and project management;
- explore the practical and theoretical applications – and challenges – of BIM and become an advocate and enabler of its adoption by industry.

For more information or to apply:

T: +44 (0)23 9284 2555
E: technology.admissions@port.ac.uk
W: www.port.ac.uk/s/aps