



tec3d

Visualisation and Animation for the AEC Industry.

Autodesk



3D CAD Workshop - AS/A2-Level

Summary

The 3D CAD workshop is targeted at AS and A2 Level Students, and is delivered jointly by staff members from the University of Wolverhampton and tec3d Limited. All tutors are qualified education professionals, specialising in the use of the software and methodologies employed in the workshops. All staff members are CRB checked.

The workshop lasts one academic day (approx 5 hours), although the content can be split into two half-day sessions on request. The course content is designed to compliment the AS/A2 Design and Technology syllabus, and is matched to the OCR, AQA and Edexcel exam specifications as described below. The objective of the day is also to enrich the students learning experience by exposing them experience to high-level design technologies, widely used in both higher education degree courses and in many professional industries, including Architecture, Manufacturing, Construction and Engineering. The practical exercises have been carefully designed to focus the application of 3D CAD software on real-life industrial and commercial design practices.

The course is accredited by The University of Wolverhampton's 'School of Engineering and the Built Environment' which tec3d Ltd works in close partnership with. The software and the practical exercises used also link to a wide range of the undergraduate courses offered by the University's 'Department of Architecture & Product Design'.

Materials

Students are expected to be computer literate and have a grasp of basic design terminology (e.g. plan view, orthographic, perspective, elevation). Each student will need to have access to a computer terminal for the majority of the workshop, (although it may be possible to work in pairs).

It is recommended that all machines are running either Windows XP or Vista, have a minimum of 2Gb RAM and 500Mb free disk space. Each machine must also have access to the internet.

tec3d Ltd - Technology Centre, Wolverhampton Science Park, Glaisher Drive, Wolverhampton WV10 9RU
Company No: 6395799

www.tec3d.co.uk

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The software used on the day will be Google SketchUp 7 and/or Autodesk 3D-Studio Max 2009. A 3D-Studio Max 2009 disk can be provided on the morning of the session for installation on each computer. Both of the 3D CAD packages installed on all the PCs used during the workshop come with a mandatory 30 day trial period, which can be utilised by staff and students for follow-up exercises and project work. All teaching materials are provided by tec3d Ltd.

Rates

Rates for the course depend on class sizes and are summarised below. Two members of staff are guaranteed for classes of 15 or more.

Duration	Students	Staff Provided	Standard Rate
Full Day	< 15	1	£400 + VAT *
Full Day	15 +	2	£600 + VAT *
Half Day	< 15	1	£250 + VAT *
Half Day	15 +	2	£350 + VAT *

*All rates are subject to the addition of travel expenses.

Signed on behalf of

tec3d Ltd

Thomas E. Clark

B.Eng (Hons), PGCE, M.Sc

Signed on behalf of

University of Wolverhampton

Dr David Heesom

B.Eng (Hons), M.Sc, Ph.D

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Example Workshop Structure*

Session 1: (9.00am – 10.30am)**

- **Introduction** – Software Packages & 3D CAD in Industry.
- **SketchUp Tutorial 1** – Drawing in 3D: Demos and Worked Examples.
- **Exercise 1** – Creating Simple 3D Structures.

Session 2: (10.45am – 12.30am)**

- **SketchUp Tutorial 2** – Advanced SketchUp Tools: Demos and Worked Examples.
- **Exercise 2** – Complex 3D Structures, Appearance Options, Exporting Files to Rendering Software and Google Earth.

Session 3: (1.30pm – 2.30pm)**

- **3DS Max Tutorial 1** – Importing 3D Models, Applying Materials, Rendering.
- **3DS Max Tutorial 2** – Animation Production for Product Marketing & Promotion.

Session 4: (2.30pm – 4.00pm)**

- **Exercise 3** – Guided Projects - 1 to 1 Support.

* Topics covered are flexible, depending on students' progress and curriculum requirements.

** All times are open to change depending on timetable structure.

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