

Module Code:
BATD06C

Introduction to 3D Construction

Level: 4

Credit Value: 15

Pre-Requisites: None

Module Description

This module introduces students to the techniques and terminology related to specific creative and technical processes that enables the student to acquire basic skills in the use and manipulation of wood, metal, and plastics. Safe working practice and health and safety underpin all practical activity, whilst a study of historical and contemporary precedents extends students understanding.

Learning Outcomes

On successful completion of this module students will be able to:

1. Explore the materials, techniques and processes relating to 3D Construction.
2. Utilise the inherent properties of wood, metal and plastics in a creative way.
3. Show awareness of the wider applications of 3D materials and processes in contemporary and historical art and design.
4. Work safely through an understanding of health and safety issues.

Indicative Content

- Wood, metal and plastics workshop safe working practices and health & safety issues.
- Researching, maintaining and using technical records.
- Introduction to the use of wood, metal and plastics workshop machinery and techniques.
- Specialist tools and materials.
- Shaping, joining and transforming materials.
- Historical and contemporary overview.
- Basic techniques, processes, properties and creative applications with wood.
- Metalwork, bending, forming, joining and finishing.
- Plastics moulding, forming and fabrication.
- Clay, plaster and glass manipulation.
- Samples, models and maquettes.
- Skills in the objective and critical evaluation of 3.D. structures.

Learning & Teaching Strategies

Workshop demonstration. Practical engagement. Seminars and tutorials.

Assessment

20% Written and Illustrated file.

Technical records of wood, metal, plastics and workshop safe working practices and health & safety issues.

80% Material outcomes.

A critical appraisal of:

- Creative samples, models and maquettes in a range of materials.

Specific Learning Resources

Specialist workshops, tools and equipment necessary for the fabrication of 3D Constructions in wood, metal, plastics, .

Bibliography

Highly Recommended

Byars, Mel. 2003. **Design in Steel**. Laurence King Publishing.

Recommended

Parsons, T., 2009. **Thinking: Objects** - Contemporary Approaches to Product Design. AVA Publishing.

Greenslaugh, Paul. 2003 **The Persistence of Craft**. A & C Black Publishers Ltd

Dormer, Peter, 1994 **The Art of the Maker: Skill and Its Meaning in Art, Craft and Design** Thames and Hudson

Pye, David. 1998 **The Nature and Art Workmanship**. Cambridge Univ Press

Viemeister, Tucker, 1993, **Product Design 6**. PBC International inc.

Smith, Paul J. 2001, **Objects for use / Handmade by Design**. Harry N

Abrams Coatts, M., 1997. **Pioneers of Modern Craft: Twelve Essays Profiling Key Figures in the History of Contemporary Crafts (Studies in Design & Material Culture)**. Manchester: Manchester University Press

Pevsner, N., 1991. **Pioneers of Modern Design: From William Morris to Walter Gropius (Penguin Art & Architecture)**. New Ed ed. Penguin

Sausmarez, M. D., 1983. **Basic Design: Dynamics of Visual Form (Design Handbooks)**. Revised edition ed. Herbert Press Ltd

Chapman, J., 2005. **Emotionally Durable Design: Objects, Experiences**

and Empathy. London: Earthscan Ltd

Thackara, J.(ed), 1988. **Design After Modernism: Beyond the Object.**
New York, N.Y.: Thames & Hudson Ltd

Itten, J., 1967. **Design and form: the basic course** at the Bauhaus. 3rd ed.
London: Thames & Hudson

Lambert, S., 1993. **Design In The 20Th Century Form Follows Function?.**
Victoria & Albert Museum

Useful Websites

www.craftscouncil.org.uk; www.photostore.org.uk; www.designinsite.dk/

Useful Magazines

Crafts; Blueprint; ICON