

Enquire Teaching Timetable

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Course Outcome

FAAS 1140 - Fundamentals of 3-Dimensional Forming

Learning Outcome

After completing the course, students will be able to:

1. perceive diverse artistic potentials of form and space in daily surroundings;
2. develop ideas and concepts for 3D artistic expression;
3. understand and apply fundamental 3D elements and principles such as form-space-transformation, plane and volume, balance and gravity, scale and proportion, materials and textures etc...; and
4. manage wide range of tools and machinery for 3D construction both in handicraft and digital forming environment.

Course Syllabus

1. Observing Form & Space
Understanding the nature as well as the structure of diverse natural and man-made forms and spaces.
2. Transformation of Form & Space
Explore various ways of form-space-transformation that lead to ideas/concepts of 3D artistic expression.
3. From 2D Plane to 3D Form
Pattern cutting as a means of analyzing, de-constructing and re-constructing a 3D form.
4. 3D Construction - from Handicraft to Digital Forming and vice-versa
Investigate wide range of possibilities to further develop a hand-built sculptural form within a digital environment. Usage of 3D scanner and printer will be introduced and practiced. The final piece should be a combination of hand-crafted and digital forming.
5. The Container & the Contained
A tailor-made container / box will be constructed to house the sculptural form developed in the previous stages. Relevant images as well as different materials / textures will be explored and eventually applied onto the container / box to further reference the conceptual development of the sculptural form. Usage of appropriate tools and machinery will be introduced and practiced.

Assessment Type

Feedback for Evaluation

A clear teaching plan will be provided before the course commences. An evaluation exercise will be held at end of the course. An on line discussion platform may be installed if appropriate.

Required Readings

As it is a studio course, no specific reading is required; the teacher will provide reference and reading material to students from time to time.

Recommended Readings

1. Alex Coles. Design and Art (Whitechapel: Documents of Contemporary Art). MIT, 2007.
2. Anne McMills. 3D Printing Basics for Entertainment Design. Focal Press, 2017.
3. Kara Johnson, Michael F. Ashby. Materials and Design, The Art and Science of Material Selection in Product Design. Butterworth-Heinemann, Second Edition: 2009.
4. Paul Jacques Grillo Page. Form, Function & Design. Dover Publication, 1975.
5. Popular Woodworking Editors. Hand Tool Essentials: Refine Your Power Tool Projects with Hand Tool Techniques. Popular Woodworking books, 2007.
6. Raven Smith. Paper: Tear, Fold, Rip, Crease, Cut. Black Dog Publishing, 2009.
7. R. Klanten, S. Ehmann, B. Meyer. Papercraft: Design and Art With Paper. Die Gestalten Verlag, 2009.
8. R. Klanten, B. Meyer. Papercraft 2: Design and Art With Paper. Die Gestalten Verlag, 2011.
9. Tomoko Nakamichi. Pattern Magic. Laurence King Publishers, 2010.
10. Zarida Zaman. Fashion Pattern Cutting: Line, Shape and Volume. Bloomsbury Visual Arts, 2014.