

Elective Courses for Semester 1/2023

5 August 2023

ARC 452 STS: Modelling and Generative AI

3(2-2-6)

Start to explore a hybrid approach to design and creativity, by combining the use of generative text-to-image AI with 3D modeling. Focus will be on looking beyond superficiality of seductive “eye-candy” images, by understanding the true design potential of current AI models. We will identify and extract core design principles from 2D AI generated images and expand them to 3D architectural objects.

ARC 492 Building Cost Estimation

3(3-0-6)

This subject examines the history and theory of historic preservation, focusing on Thailand, but with reference to traditions and practices in other countries. The class is designed to examine the largely untold history preservation movement in this country, and explore how laws, public policies and culture attitudes. The class will give students a grounding in the history, to theory and practice of historic preservation, but is not an applied, technical course.

INA 327 Adaptive Heritage Reuse

3(1-4-6)

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INA 326 Thai Ornaments

3(2-2-6)

This course aims to encourage students to learn and understand of the art of Thai traditional architectural ornaments. General study of architecture and interior architecture buildings, with a description of the main decorative elements of the buildings. The study includes field surveys and studio design works. Use knowledge to apply taste and creativity.

IND 232/ DIP 257 Craft Product Design**3(2-2-6)**

Principles of handicraft and industrial craft design. Aesthetics, values, design and making processes of handicrafts. Exploration of materials and techniques.

IND 338/ DIP 256 Furniture Design**3(1-4-6)**

Furniture design in scope of industrial design. Furniture design and manufacturing process. Function and Aesthetics.

IND 339 Photography**3(2-2-6)**

Students can deliver photography work that communicates narratives and their concepts. They can implement aesthetic principles and technical principles relating to photography in their photography projects.

IND 465/ DIP 251 Product Characteristics**3(2-2-6)**

Analysis of products serving same function in terms of product attributes, product properties, product appearance, product identity, product differentiation, manufacturing, marketing, consumers, design direction, tradition and culture influencing design. Application to design.

CMD 218 Introduction to Printmaking**3(2-2-6)**

This course covers the distinctive nature of printmaking, including tools, inks, paper, plate preparation, registration, printing processes, and qualities of prints, e.g., overlays, transparency, offset. Students will gain the skills and confidence to produce multiple images by hand printing and on a press while exploring visual expression. Hand printmaking techniques will engage the student with problem-solving in drawing, design, and color. Class sessions will comprise independent and collaborative printing and lecture, demonstrations, discussion, and critique.

CMD 317 Advanced Practice in Motion and Sound**3(2-2-6)**

Prerequisite: CMD 213 Communication with Sequence, Sound and Motion

Introduction to motion and sound media. Understanding of design and communication. Practice advanced technique for combining sound and image. Experimental techniques for sound and video recording. Explore audio visual genres.

CMD 333 Screenwriting**3(1-4-6)**

A practical introduction to the art and craft of screenwriting. Basic elements and principles of screenwriting, such as: synopsis, treatment, characterization, dialogue, visual writing, story paradigm, storytelling strategies, and narrative structure, as well as film conventions and theories are introduced. This course locates screenwriting within the context of cinema production specifically, as well as within the arts as whole. As an outcome students produce short works written in conventional screenplay format.

CMD 347 Cinematography**3(1-4-6)**

This course will explore the fundamental principles of visual storytelling, focusing on framing, lighting, vantage point, and continuity style of filming and staging. Technical issues specific to electronic cinematography will be outlined, including colors space, compression schemes, and digital workflow.

CMD 364 Web Design**3(2-2-6)**

This course introduces students to the web design and development lifecycle. The course focuses on theory, tools, techniques and standard in the design phase including layout design, interface design, components of web e.g. typography, color, media, contents, etc. It also covers the standards and trend in modern web design such as responsive web design (RWD) and other modern concepts in web design. The practical exercises cover the usage of tools and techniques in design a web including the implementation of design into a real web site using a current available instant web implementation tools.

LAN 363 Landscape System and Technology**4(2-4-8)**

Principles of site surveying, contour, grading and alignment as well as designing surface and underground drainage systems Creating slopes, construction methods, basic calculations and parameters, and roadway design.

LAN 451 Analysis of Ecological Interconnections**3(2-2-6)**

This educational journey and workshop explore a sequence of sites that illustrates the changing geology and topography of the regional physiographic provinces. Analysis of the inter-connections between the underlying geology, topography, hydrology, soils, vegetation, wildlife, and human interventions will reveal patterns reflecting process and demonstrate key ecological principles.