

Elective Courses for Semester 2/2022

(29 December, 2022)

ARC 432 Computational Design and Digital Fabrication

3(3-0-6)

The course aims to introduce the concepts and applications of computation in architecture and design. It aims to provide the basic skills to build and control parametric models, analysis tools and introduction to the basic machine operation of the fabrication tools such as laser cutter, CNC and rapid prototyping and how it may relate to the contemporary architectural discourses in the form of design tools and interactive presentations.

Remark: Only 3rd year Architectural students are required to register this course to support studio class

ARC 452 Special Topic Study: Revit

3(2-2-6)

Technology and innovation have rapidly changed the way we work. Our current skillset and toolset will be outdated within a decade. Do we have enough essential knowledge to thrive in the future of the professional world?

Preparing you for your career in architectural business and entrepreneurship, we will be exploring advanced Revit modeling techniques and other technologies in architecture. Training yourself to acquire early entrepreneurial mindset will help accelerate your future career development.

Remark: Full online class. The 1st class will be start on 26th January 2023

ARC 453 STS: The Story of House Design in Contemporary Issue

3 (3-0-6)

House is one of the fundamental elements for living. Design knowledge plays a significant role in shaping people for a better quality of life. This lecture-based class would focus on the various topics that contribute to understanding movement and development in contemporary house design issues. The subject would be divided into three majors groups of topic

1. Past Concept: the case studies from various projects had major significant movement in house design concept
2. Present Design Movement: situation and topic that has a direct impact on the new proposal of house design such as Aging Society, Energy Plus Design, Sustainable Design
3. Future trend: the discussion on future direction in residential design solution such as A Modular House Design by Muji brand, Micro-living trend, ADU (Accessory Dwelling Unit or Plug-in House)

INA 314 Aesthetics**3(2-2-6)**

An investigation into appreciation of design philosophy in form and other elements and the meaning of aesthetic values in relation to other elements of architecture and interior architecture.

INA 317 Introduction to Painting**3(1-4-6)**

Study includes the basic color and brush manipulations and terminology, the use of glazes, varnishes, media, building and stretching canvases, preparation of alternative supports. The objectives of this class is to encourage the development of a personal creative sensibility and analytic abilities through critiques and discussions, increase visual literacy and the capacity to evaluate and describe works of art, demonstrate and develop variety of space and color relationships and produce work employing various compositional strategies.

INA 352 Lighting Design**3(2-2-6)**

This class introduces design considerations and processes, tools and techniques for creating quality lighting of major interior applications. These include retail, working environment, hospitality and museum & gallery lighting. It also gives an overview of current building codes and standards as well as an appropriate use of lighting equipment and control systems to ensure both lighting quality and sustainability. The class is delivered through lectures, hands-on experiments and field-trips. And the students will have an opportunity to apply the theoretical knowledge on design projects, using various tools for presentation and evaluation of the design concepts.

INA 454 STS: Fundamentals of Stage Design and Scenography**3 (2-2-6)**

An introduction to the fundamental practices of stage design and spatial composition including the history, theories and basic principles of stagecraft; the interpretation of written text into 3-dimensional space, technical aspects and equipment in scenographic design as well as an introduction to costume design. The course provides a basic methodology in approaching a stage design project, via series of lecture, analytical thinking and collective discussion.

INA 596 Business Management and Administration**3(2-2-6)**

Studies include a fundamental understanding in business management; codes of professional practice; basic principles in management; guiding concepts in management; corporate cost accounting; design and construction documentation; office administration procedures, and corresponding interior architectural responses to corporate needs.

IND 232 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 257 Special Topic Study: Leather Design Appreciation**3(1-4-6)**

Introduction to materials by types, functions, look and feel, and the usage. Learning by doing of craft and hand make leather, by using different of tools, stitch type, and finishing. Finally will learn and Design leather products by creating the final and complete the project from start to finish the production process.

IND 371 Service Design**3(2-2-6)**

Designing total experience of customers/people in commercial or non-commercial projects that required strategies to attract, engage, and enhance the interaction satisfaction between service providers and customers. Application of systematic approach to creative thinking methods and tools for identifying the relationship among activities, infrastructure, and product or communication channels for designing pleasant service experience.

CMD 215 Typographic Communication**3(2-2-6)**

Typographic treatments within complex textual system. Content and typography, and organization of textual information.

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.

CMD 365 Web Development for Designers**3(1-4-6)**

This course introduces students to development concepts, processes, standards, tools, and techniques that use to create a modern web site. The course includes practical exercises on creating web pages using modern concepts, tools, and techniques.

Remark: Full online class.

LAN 211 Landscape Architecture Presentation: Digital Visualization 3(1-4-6)

Basic knowledge and workflows of digital techniques in landscape architectural representation and graphics, including 3D and rendering software, and the use of CAD/CAM facilities for model making.

LAN 252 Planting Design Principles 3(3-0-6)

Study of plant material and importance role in ecology. Focusing on exploration of vegetation and their environmental impacts upon conscious design application. This course addresses the development process of planting design, technical drawings, and specification standards of plant materials including considerations for aesthetics, spatial design and plant selection criteria.

LAN 333 Man and Ecology 3(2-2-6)

The effect of human development on natural ecology, the balance of nature and usages of land, ecological consideration for large scale landscape planning. The understanding of ecological theories and processes in design and planning.