

## REGULATIONS FOR THE DEGREE OF MASTER OF ARCHITECTURE (MArch)

*These regulations and syllabuses will apply to candidates admitted in the 2009-2010 academic year and thereafter.*

*(See also General Regulations)*

Any publication based on work approved for a higher degree should contain a reference to the effect that the work was submitted to the University of Hong Kong for the award of the degree.

### Admission requirements

- Ar76** To be eligible for admission to the degree of Master of Architecture, a candidate shall
- (a) comply with the General Regulations;
  - (b) be a Bachelor of Arts in Architectural Studies of this University; or possess a degree, diploma or other qualification of equivalent standard and content from another university or comparable institution; and
  - (c) complete the curriculum and satisfy the examiners in the First and Final Examinations in accordance with the regulations set out below.

### Curriculum

**Ar77** The curriculum shall extend over two academic years of full-time study and shall include the First Examination and the Final Examination. Candidates shall not be permitted to complete the curriculum in more than four academic years.

- Ar78** To complete the curriculum, a candidate shall
- (a) enroll for courses of a total 96 credits<sup>1</sup> (the average load per semester being 24 credits);
  - (b) follow instruction in the courses prescribed and complete satisfactorily all coursework set either as tests or as parts of any examination; and practical work<sup>2</sup> to be undertaken as an integral part of the MArch course;
  - (c) satisfy the examiners at the First and Final Examinations in the manner specified below; and
  - (d) a candidate may, subject to approval by the Head of Department, take other course(s) in the Faculty of Architecture to fulfill the elective course requirements.

<sup>1</sup> 1 credit = 8 teaching hours per semester (or 3-credit course = 2 teaching hours per week).

<sup>2</sup> Candidates are required to undertake practical work for a minimum of 10 weeks normally during the summer vacation in the MArch course under the guidance of the Department on completion of the First Year of their studies. Reports for assessment on their practical work have to be submitted to the Department before the commencement of the First Semester in September.

## Examinations

### Ar79

- (a) The First Examination shall comprise an examination of the candidate's completed projects and coursework in Architecture and Urban Design I and may include an oral examination at the end of the second semester; and one core course plus five elective courses or two core courses plus four elective courses chosen from the following four categories<sup>3, 4</sup>:

Category I: Architectural History and Theory

Category II: Architectural Management

Category III: Architectural Technology/CAAD

Category IV: Independent Studies

For elective courses offered by MArch, priority will be given to MArch students.

Choice of elective courses offered by MUD, MLA or ACP is subject to prior approval by the Head of Department in consultation with the respective Programme Directors. Priority will be given to the students from respective programmes.

- (b) The Final Examination shall comprise an examination of the candidate's completed projects and coursework in Architecture and Urban Design II and shall include an oral examination at the end of the second semester; one core course plus five elective courses or two core courses plus four elective courses chosen from any of the four categories<sup>5</sup> in regulation Ar79(a) above.

### Ar80

The following clauses apply to candidates of all years:

- (a) Architecture and Urban Design is a whole year course with continuous assessment over two semesters. Year Examination will be conducted at the end of the second semester. Candidates who have failed in Architecture and Urban Design in the respective year Examination at the first attempt may be permitted to present themselves for re-examination at a specified date before the commencement of the following academic year. Candidates who have failed Architecture and Urban Design at the second attempt shall not be permitted to proceed to the subsequent year of the curriculum and be required to repeat Architecture and Urban Design of that year and shall present themselves for examination only once more.
- (b) (i) Candidates who have failed in not more than two other courses in the respective year Examination at the first attempt in the first semester may be permitted to present themselves for re-examination in the same course or courses at a specified date during the second semester; for candidates who have failed in not more than two other courses at the first attempt in the second semester, re-examination will be conducted at a specified date before the commencement of the following academic year.
- (ii) Those who have failed in not more than one course at the second attempt shall be permitted to proceed to the subsequent year of the curriculum and to present themselves for re-examination in the same course only once more in the following academic year.

<sup>3</sup> Not more than four courses are to be chosen from any one of the four categories offered by MArch or offered by Master of Urban Design (MUD), Master of Landscape Architecture (MLA) or Architectural Conservation Programme (ACP).

<sup>4</sup> It should be noted that not all of the courses in the Categories I, II and III will be offered every year.

<sup>5</sup> The choice of courses for the Final Examination is to be made with consideration of courses chosen for the First Examination in the following manner: not more than four courses from any one of the four categories are to be chosen.

- (iii) Those who have failed in more than one course at the second attempt shall not be permitted to proceed to the subsequent semester or year and be required to repeat all failed courses and to present themselves for re-examination only once more in the following academic year.
- (c) Candidates who have failed in more than two other courses in the respective year Examination at the first attempt in either the first or second semester shall not be permitted to proceed to the subsequent semester or year and shall be required to repeat all failed courses and to present themselves for re-examination in the following academic year. If they fail again at the second attempt, they may be permitted to present themselves for re-examination only once more at a specified date before the commencement of the following academic year.
- (d) Candidates who have failed in Architecture and Urban Design and in not more than three core courses in total in the year Examination at the first attempt may be permitted to present themselves for re-examination at a specified date before the commencement of the following year. If they fail again in any course or in Architecture and Urban Design at the second attempt, they shall not be permitted to proceed to the subsequent year and shall be required to repeat all failed courses and to present themselves for re-examination in each failed course only once more in the following academic year.
- (e) Candidates who have failed to satisfy the examiners in one or more electives in their first attempt may be permitted under special circumstances to register for alternative courses and be examined at a specified date. If they fail to satisfy the examiners in any of the substitute courses, they may be permitted to present themselves for re-examination only once more at specified date. If any of the failed courses is not being offered in the particular academic year, this may be construed as a special circumstance for the purpose of this article.
- (f) Candidates who have failed in any course of the respective year Examination at the third attempt shall be recommended for discontinuation of studies under the provisions of General Regulations G 12.

### **Award of degree**

**Ar81** The degree of Master of Architecture may be awarded with Distinction, except that a candidate who presents himself more than once for Final Examination in any of the core courses shall not be eligible for distinction unless the Senate directs that he shall be so eligible because of exceptional circumstances.

## **SYLLABUSES FOR THE DEGREE OF MASTER OF ARCHITECTURE**

For the purpose of these syllabuses, the teaching of each course will be conducted within one semester except for ARCH4013 and ARCH5013.

### **FIRST YEAR: CORE COURSES**

#### **ARCH4013. Architecture and urban design I (30 credits)**

This course aims to use the case-method to give candidates experience in problem-solving and decision-making. Projects will call for design integration of the many factors which shape our environment including legal-financial determinants and social conditions. Emphasis will be on complex buildings, and group work in urban design in Hong Kong and in the region. Sketch designs are required with emphasis on imagination, ideas and graphic communication.

Field trips will be required for the course.

**ARCH4003. Professional practice I (3 credits)**

The course covers the areas of land building, planning and contract law. Land ownership; lease conditions; landlord and tenant covenants; easements; rights of way; torts; Hong Kong town planning ordinance and procedures; buildings ordinance, regulations and other related laws; codes of practice and submission of plans to various authorities are also dealt in detail. Other topics which come under the preview of this course and are discussed include : Buildings Department's practice notes for Authorized Persons; formation and discharge of contracts; enforcement; breach and remedies, arbitration; types of contract; standard private and public building contract forms; subcontracts; nominated subcontractors and suppliers; relevant statute and case law and other professional practice issues.

**SECOND YEAR: CORE COURSES**

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**ARCH5013. Architecture and urban design II (30 credits)**

This final year course concludes the curriculum by means of a written thesis or a design thesis where a report and a special study are required. Candidates choosing to do a design thesis are required to demonstrate a mature understanding of their chosen topics during an oral examination. The requirements for written thesis are those normally required in a Master's programme; an oral examination is also required. The course is supplemented by sketch designs the purpose of which is the same as those in the previous year.

Field trips will be required for the course.

Pre-requisite: ARCH4013

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The following two core courses may be taken in either the First or Second Year. Candidates must have completed ARCH4003 before taking ARCH5003.

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**ARCH5003. Professional practice II (3 credits)**

Beginning with the code of ethics and professional conduct, the course proceeds to focus on architects registration ordinance; architect/client/ consultant/contractor relationship; project management; tendering procedures; bills of quantities (specifications). Scheduling techniques; measurement conventions; organization and management and other professional practice issues of HKIA and ARB are also covered. Analysis of relevant cases in architectural practice, with special reference to Hong Kong is also included.

**FIRST AND SECOND YEAR: ELECTIVE COURSES**

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There are four categories offered by MArch as well as by MUD, MLA or ACP, within each of which there are a number of courses available for selection by candidates in the Master's programme. These courses may be taken in either the First or Second Year:

- I: Architectural History and Theory;
- II: Architectural Management;
- III: Architectural Technology/CAAD;
- IV: Independent Studies

1. Candidates shall be guided in selecting these courses. It should be noted that not all courses in Categories I, II & III would be offered every year and that new course(s) may be introduced in any year.

2. Not more than four courses are to be chosen from any one of the four Categories offered by MArch or offered by MUD, MLA or ACP.
3. The Examination of the course may take the form of a written, practical or oral test, or by continuous assessment or by any combination of these. If a candidate is required to repeat a course because of failure but that particular course is not offered in the following year, his choice of an alternative course must have the approval of the Head of Department and the relevant course teachers.
4. For the purpose of examination, one course shall constitute a paper.
5. Choice of elective courses offered by MUD, MLA or ACP is subject to prior approval by the Head of Department in consultation with the respective Programme Directors. Priority will be given to students from the respective programmes. Please check the courses offered by these programmes at the time of enrolment and refer to the respective programme syllabuses for their course descriptions.

#### *CATEGORY I: ARCHITECTURAL HISTORY AND THEORY*

##### **ARCH5101. Art in architecture (3 credits)**

This seminar course attempts to bridge between students' professional architectural training and a broader education in the relevant liberal arts areas: in the psychology and philosophies of art and the history of art as it relates to architecture. Topics include an overview of aesthetic theories, on how ideas gain physical shape: the historical background, recent systematic theories, interpretation, criticism and the issue of art and linguistics versus architecture. Lectures and discussions will be based on selected papers of Aristotle, Tolstoy, Kant, Hegel, Hume, Nietzsche, Freud, Jung, to Derrida, Langer, Goodman, Foucault, Arnheim, Lynch and other significant historic and contemporary writers. A brief survey of the History of Art (Western and Asian) will be included in the course as skeletal foundation for discussions. Germane to the course are topics in past and contemporary art and architectural issues, which will be examined towards an understanding of the relationship between Art and Architecture.

##### **ARCH5103. Housing in urban development (3 credits)**

The course investigates the production of housing within the social, political and spatial conditions in urban development. Topics include social and economic determinants of housing location, standards and quality of design; impact on urban development; analysis of housing production including site and infrastructure, provisions; constraints and innovations in the housing industry; and case studies by field trip.

##### **ARCH5104. Tall buildings (3 credits)**

The intention of *Tall Buildings* is to investigate the interaction between contemporary architectural / design, theory and critique with the body of theories and designs surrounding Modernism and its aftermath. The principle object for investigation is the representative product of the Modern era – the extra large and extra tall machines. The course, through an inter-disciplinary approach, aims to explore new frameworks and connections between contemporary architecture and contemporary thought, in an effort to establish new paradigms for design.

**ARCH5105. The design of Chinese cities (3 credits)**

The course looks into the basic physical organization and development of traditional, colonial and contemporary Chinese cities. It aims to introduce methods in understanding how built forms, particularly urban public spaces and city fabric, express certain aspirations of a culture, and how culture itself conditions their physical shape. It also addresses the issue of urban transformation: how cities took the shape they did? What and why have they changed from their past forms to the present shape?

Field trips form an integral part of the course.

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**ARCH5106. The modern movement and beyond (3 credits)**

The course is concerned with theoretical aspects of design activities in architecture. It attempts to trace the evolution of spatial concepts significant to the modern movement and beyond. The course consists of two parts: analytical and synthetic. The analytical part is to develop the candidates' skill for deeper understanding of the complexity of the built form. The synthetic part attempts to follow the vicissitudes of architectural design through the examination of the works of certain architects.

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**ARCH5107. Vernacular architecture of Asia (3 credits)**

Vernacular built-form is the most obvious and direct means of expression of a people and its culture. Through the examination of different indigenous building types in different parts of Asia, viz. China, Japan, Indonesia, Malaysia and Thailand, candidates are able to develop a broader sense of understanding of the relationship between architecture, climate and culture.

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**ARCH5108. Topics in architecture (3 credits)**

This course gives students the opportunity to further explore specific issues and topics in architectural design and urban theory.

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**ARCH5109. Topics in architectural theory (3 credits)**

This course gives students the opportunity to further explore specific issues and topics in architectural design and theory.

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**ARCH5110. Topics in urban studies (3 credits)**

This course gives students the opportunity to further explore specific issues and topics in urban design and planning.

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**ARCH5111. Contemporary urbanism (3 credits)**

This course integrates urban analysis research and architectural design methodologies to examine relationships between architecture and urbanism through the development of a working understanding of urban and architectural form in the context of the Contemporary City. The course examines the contemporary urban condition through readings of critical theories, analysis of developmental models, as well as empirical investigation of urban sites. In conjunction with physical, historical, social and economic research, alternative design strategies are explored to challenge existing presumptions and models of the contemporary urbanism.

**ARCH5112. Urban research seminar (3 credits)**

This course is a research seminar open to MArch and RPG students with a serious interest in self-directed investigation into contemporary spatial, political and economic issues in contemporary urban studies. The course combines independent research projects and iterative analytical exercises. A reading list in contemporary urban studies and supplemented by readings introduced through research topics forms the basis for in-class discussion. With a goal of establishing literacy in both contemporary research topics and methods, and developing a critical activism towards contemporary urban conditions, a dual emphasis will be put on research and its representation with student presentations scheduled throughout the term.

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**ARCH5306. Changes in architectural depiction (3 credits)**

This course studies past, present and future ways of representing architectural space. Using a variety of sources, the class will elucidate ways in which modes of description affect perception. Digital and analogue tools will be used to reconstruct the geometry of both historical precedents and future structures, investigate representational systems and generate alternate realities.

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**ARCH6109. The politics of the object (3 credits)**

This course investigates how designed objects interface with the larger discourse of the political and urban environment. From public art installations, public and private spaces to civic architecture-objects situated in these contexts have multiple cultural meaning and transformative power of representation. Historical perspectives of industry, art-related programs, utilitarian products to international case-studies and their relationship to the user will be examined. An in-depth investigation of a specific local condition with global reach will be used as a site for research, design and built agenda. This will be followed by an onsite installation that builds upon the research into a design strategy and innovative cultural project.

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**ARCH6110. Modern architectural details (3 credits)**

This course is a study in architectural details and detailing manifestoes, concepts, ideas are all contained in the resolution of particular details. Rather than looking to the detail as a final step in the process of architectural problem solving, this course will seek to place the detail first as a crystallization of building intentions. Conceptual basis behind a range of details by one particular architect will be investigated. Lectures covering building projects and details will be supplemented by critical texts which position the project within a cultural and aesthetic understanding. Finally the students will each design and build a given detail based upon their own conceptual parameters.

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**ARCH6111. ReBuilding utopia: visions of architecture in the post-war world**

This course examines the occurrences of the utopian tendency within the production of architecture in the aftermath of World War II – an event of global magnitude that triggered a series of political, social, economic and cultural consequences in its wake. The bipolar struggle that characterized most of the latter half of the 20<sup>th</sup> century implicated architecture in many ways and at many levels. Amidst postwar reconstruction in Europe and Japan, the continuation of war via the Cold War, widespread decolonization and the territorial divisions of the globe into First, Second and Third Worlds, the rise of America as the dominant superpower, and the internationalization of American popular culture, visions of the future were conceived. Within these post-war contexts and post-colonial realities, the promise of utopia was not simply proclaimed by the avant-gardes. Under the rubric of democracy and

modernization, the United Nations, governments of nations, non-governmental organizations, academic institutions and multi-disciplinary groups, took on the task of vision building. At the same time, there emerged those who conceived of counter-utopias and dystopias as responses to the experiences of global homogenization and upheavals occurring at local and regional levels. How was architecture instrumental in forwarding the objectives of the visionaries? How did technologies, methodologies and mindsets find their way into architecture and their corresponding discourses? In what ways did the multiple trajectories of utopia and utopian building inform the history of the discipline as it is understood today? Class discussions are based on assigned readings and individual presentations. Readings are primarily architectural texts but also include definitive texts from other disciplines including cultural studies, geography, sociology, and philosophy that are important in framing pertinent issues or events.

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### **ARCH6112. Modern architecture and the visual realm**

The objective of this seminar is to investigate the relationship of modern architectural work and the visual realm. The development of architectural theory, publication and/or detailing which simultaneously accept and deny the perception on modern architecture as a retinal art form will be the subject of discussion and investigation. In-depth analysis conducted on selected modern buildings form the basis of argument for students to develop their own critical thinking towards architectural theory and building appreciations.

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### **ARCH6113. Architecture and the Social (3 credits)**

Social and environmental conditions pose significant challenges to contemporary design practices. This course examines how architecture and critical spatial practices confront these 'shifts' in political, economic and material processes that shape the built environment. Through collaborative investigations and interdisciplinary action, the 'Social' will be defined in a multiplicity of ways; where research on current urban policy, civic issues, community based architectures and design pedagogy will be used to create new forms of critique for the 'Social' project.

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### **ARCH6114. Paradigms and prototypes (3 credits)**

This one term graduate seminar module develops knowledge and skills related to the design of prototypical models of architecture and urbanism, by means of students' analysis and evaluation of recent, innovative, seminal design projects, and their related techniques, strategies, discourses, and effects. The aim of this seminar course is to provide a thorough background to the theoretical knowledge related to work pursued in contemporary avant-garde design studios emphasising computational design and fabrication techniques. The seminar creates an important opportunity for students to reflect upon and evaluate their own ongoing design objectives and interests, in relation to recent design projects, and their affiliated techniques, concepts and discourses.

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### **ARCH6116. From plan to diagram (3 credits)**

Diagram in its generic definition is a visual and graphic representation of information generally organized with geometric symbols such as arrows, lines, and points. Basically in architecture, the sketches are considered as diagram. But recently the architects have reinvested the diagram as a conceptual system of representation, system of interpretation and system of translation of complex data.

This course introduces theory and techniques of the diagram in architecture as a methodology of understanding the analysis and the process development in the project.

The diagram can be developed as a dynamic tool to consider and develop internal organization. It becomes a generative instrument, a syntax to preconfigure the relationship between the meaning and the external appearance.

The diagram is analysis, notation, stratification, information, representation, strategy, indeterminacy, collage, assemblage disassembly, juxtaposition, rupture, and discontinuity.

Beyond the history, the introduction and the definition of the diagram in architectural practices, this class will be conducted as a research to develop design strategies focusing on the linearity, the history, the typologies of Nathan Road and its iconic skyline.

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### **ARCH6117. When materials become form (3 credits)**

Mathematic, Philosophy, Forms and Technology are intrinsically linked and related to the materialization and essence of Architecture, which become an integrated response to the concept. The complex interrelations generated by the 'making of form' through the design investigation in architecture are driven by the tectonic, the topology, and the technical. These suggest a strong innovative and creative design manipulation.

Forms and their construction are strongly relevant from the conceptual, the exploratory and technical developments in architecture such as craft, mechanization and standardization in the building industry and the emerging non-standard processes and technologies.

This course introduces History, Theories and Technologies of the production of forms in Architecture related to the technology and the development and innovation of material. The course focuses especially on the development and the performance of architectural forms from the Arts & Craft Movement until contemporary building designs to analyze, explore and experiment with the potential paradoxes of the production of form and its materialization in Architecture.

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## CATEGORY II: ARCHITECTURAL MANAGEMENT

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### **ARCH5201. Aspects of contract management (3 credits)**

Detail analysis and studies of standard contracts and sub-contracts for public and private works in Hong Kong. Practical problems in contract administration and project management, the cooperation and partnering of the architect, project manager and the contractor will be examined. Claims, counter-claims, mediation and arbitration will be considered.

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### **ARCH5202. Building economics and management (3 credits)**

The course deals with economic and cost factors relevant to the architectural design and construction processes. The course will also provide instruction in the theory and practice of appropriate techniques to achieve economy and efficiency. Topics include: feasibility analyses for projects, economic analysis for design, project cost analysis, financial monitoring and evaluation, case studies. A term paper on a relevant topic will be required.

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### **ARCH5204. Principles and practices of building codes (3 credits)**

The course covers the area of Building Control in detail. The principles, practices and applications of the Building Codes, including the Buildings Ordinance, Building Regulations, Codes of Practices, and Practice Notes for Authorized Persons, will be extensively discussed and explained. Lectures will be supplemented with case studies involving projects in local architectural practices.

**ARCH5205. The building process (3 credits)**

The course will examine the architect's role in different stages of the building process, from bidding, being commissioned, designing, tendering, coordination, construction to completion. Focus will be put on how various factors, including client/architect relationship, teamwork, management and economics could affect the outcome of a building process. Coursework may include case studies of actual projects through interviews and research.

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**ARCH5206. Management in architectural projects (3 credits)**

Aspects of project management in building projects from the perspective of an architect will be discussed. Theories and practices associated with time, costs, production and risks management will be studied. Coursework may include case studies of actual projects through interview and research.

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**ARCH5403. Design and management (3 credits)**

The course reviews management theory and practice and explores the implications for architectural design practices and their projects by examining modes of practice and project results.

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**ARCH6014. Business management in architectural practice (3 credits)**

The course covers fundamental principles for architects for their role as effective business managers in the building environment. Four areas will be examined: these include business management principles, accounting practice and financial management, personnel management and the marketing of professional services. Case studies and course work will form an integral part of the course.

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*CATEGORY III: ARCHITECTURAL TECHNOLOGY/CAAD***ARCH4005. Building structures and systems (3 credits)**

The course is designed to close the gap between structural theory and design. The subject is divided into two parts. The first part highlights the more important aspects of the structural planning process from architects' point of view. The second, analytical part, develops candidates' skills through case studies of actual projects leading to a deeper understanding of the complexities of the structural problem. Topics such as building failures, structural alteration and additions, building regulations, geotechnics, foundations on difficult grounds and computer-aided structural design/analysis will be discussed.

The course provides an understanding of the realities of designing and manufacturing components of buildings within aesthetic, economic and time frameworks. Design construction communication is studied through production and technical drawings, manufacturer's shop drawings with special emphasis on the use of materials and manufacturing technology. Direct studies of manufacturing techniques both traditional and new are undertaken by field trips to factories and construction sites. Construction systems including the systems approach, standardized buildings, contractual strategies and their impact on the evolution of building production are investigated.

Field trips to construction sites and design offices form an integral part of the course.

**ARCH5301. Comparative building appraisal and case studies (3 credits)**

The course aims at equipping candidates with the ability to appraise buildings in a methodical manner and to carry out case studies in architecture analytically so that a useful resource of reference material can be built up towards their design work.

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**ARCH5302. Computer graphics for architects (3 credits)**

Through a series of exercises, presentations, and discussions, the course will investigate the evolving relationship between architecture and its means of representation, as well as broader issues of technology, information, and culture. While the course will explore the impact of computing technology on the representation of architecture, it will also provide a firm understanding of some of the software required to do so.

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**ARCH5303. Sustainable building systems (3 credits)**

Advanced studies in innovative technologies are undertaken. Energy efficient and intelligent buildings are analyzed and advances in parallel industries such as aerospace, shipbuilding and the transportation industries are studied for applicability in the building industry. Computer modelling is used extensively in this option. Total energy systems are investigated as are low environmental impact techniques.

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**ARCH5304. The computer in architecture (3 credits)**

An introduction to computer-related tools and techniques useful to architects in professional practice. It includes the use of computers for office automation and management as well as various design and analysis applications in architecture and related fields.

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**ARCH5305. Computer-aided architectural design methods (CAAD Methods) (3 credits)**

A study of current computer techniques and technologies which can be used by architects to develop design methods that fully exploit contemporary computers as design aids.

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**ARCH5307. Advanced architectural technology (3 credits)**

This course concentrates on understanding and applying the principles of building structures, building materials and construction technology, environmental controls and building services, in an advanced level of integrated architectural design, geared to the local context. For building materials and construction technology, the emphasis is on the performance criteria and applications of building materials, components and systems of construction. For building structures, the emphasis is on structural schemes systems relating to local building regulations and codes. For environmental controls and building services, the emphasis is on local regulations and codes, and coordination of services for heating, ventilation, air-conditioning, fire safety, plumbing and drainage, electrical, lift and escalators, etc.

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**ARCH5308. Topics in advanced technology (3 credits)**

This course gives students the opportunity to further explore specific issues and topics in computer and advanced technology.

**ARCH6115. Topological structures** (3 credits)

This intensive workshop focuses on two main objectives. The first one concentrates on a practical investigation on topological surfaces and their spatial properties to expand the language of architecture. The second one addresses the issue of parts to whole and the question of constructability. Where in the first part students will learn how to draw and construct intricate surfaces digitally using software packages like Maya and Rhino, the second part focuses on the parametric discretization of these morphologies and later how to digitally manufacture them.

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CATEGORY IV: INDEPENDENT STUDIES

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**ARCH5405. Independent studies** (3 credits)

The objective of this course is to allow candidates to pursue independent studies to strengthen critical analytical skills and reflexive learning. With the permission of the supervisor, students may choose reading materials that focus on the exploration, analysis and/or revelations on concepts in architecture and urbanism.

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**ARCH5404. Practicum** (3 credits)

This course provides candidates in the Exchange Programme opportunities in understanding the architectural professional practices in Hong Kong. Candidates are expected to undertake the practical training for a period of no less than two consecutive months under the supervision of the Exchange Programme Director. A log-book is required at the end of the Practicum.