

# **REGULATIONS FOR THE DEGREE OF BACHELOR OF ARTS IN ARCHITECTURAL STUDIES (BA[ArchStud])**

*(See also General Regulations and Regulations for First Degree Curricula)  
(These regulations and syllabuses will apply to candidates admitted in the 2009-10 academic year and thereafter*

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## **Admission to the degree**

**Ar1** To be eligible for admission to the degree of Bachelor of Arts in Architectural Studies, a candidate shall

- (a) comply with the General Regulations;
  - (b) comply with the Regulations for First Degree Curricula; and
  - (c) satisfy all the requirements of the curriculum in accordance with the regulations that follow and the syllabuses of the degree.
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## **Length of study**

**Ar2** The curriculum shall normally require six semesters of full-time study, spread over three academic years.

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## **Completion of the curriculum**

**Ar3** To complete the curriculum a candidate shall

- (a) satisfy the requirements prescribed in UG 3 of the Regulations for First Degree Curricula;
  - (b) follow instruction in the courses as prescribed under these regulations and complete satisfactorily all coursework requirements set as tests or as parts of any examination; and practical work<sup>1</sup> to be undertaken as an integral part of the BA(ArchStud) curriculum; and
  - (c) satisfy the examiners at the First, Second and Final Examinations respectively in the First, Second and Final Year of the curriculum, with a total of 180 credits<sup>2</sup> of courses, in the manner specified below.
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## **Examinations**

**Ar4** The Examinations shall comprise of

- (a) one paper in each of the following core courses (totalling 162 credits):
  - (i) First Examination to be taken in the First Year of study:
    - First Year Courses
    - [whole year course]
    - Architectural Design I (24 credits)
  
    - [First Semester courses]
    - History and theory of architecture I (3 credits)

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<sup>1</sup> Candidates are required to undertake practical work for a total minimum of 20 weeks normally during their summer vacation in the BA(ArchStud) course under the guidance of the Department of Architecture. Reports for assessment on their practical work have to be submitted to the Department before commencement of the first semester in September.

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

Principles of buildings I (3 credits)  
 Visual communications I (3 credits)  
 Architecture and the creative industries I (3 credits)

[Second Semester courses]  
 History and theory of architecture II (3 credits)  
 Principles of buildings II (3 credits)  
 Visual communications II (3 credits)  
 Architecture and the creative industries II (3 credits)

- (ii) Second Examination to be taken in the Second Year of study:  
 Second Year Courses  
 [whole year course]  
 Architectural Design II (30 credits)

[First Semester courses]  
 History and theory of architecture III (3 credits)  
 Technology of built environment I (3 credits)  
 Visual communications III (3 credits)  
 Urbanism I (3 credits)

[Second Semester courses]  
 History and theory of architecture IV (3 credits)  
 Technology of built environment II (3 credits)  
 Visual communications IV (3 credits)  
 Urbanism II (3 credits)

- (iii) Final Examination to be taken in the Final Year of study:  
 Final Year Courses  
 [whole year course]  
 Architectural Design III (30 credits)

[First Semester courses]  
 History and theory of architecture V (3 credits)  
 Digital media in architecture (3 credits)  
 Building systems I (3 credits)  
 Design and practices of technology I (3 credits)  
 Urbanism III (3 credits)

[Second Semester courses]  
 History and theory of architecture VI (3 credits)  
 Analysis of modern architecture (3 credits)  
 Building systems II (3 credits)  
 Design and practices of technology II (3 credits)  
 Technology of built environment workshop (3 credits)

- (b) 18 credits of electives which must be successfully completed for graduation as follows: 12 credits of electives (6 credits for each of the First and Second Semesters) for the First Examination and 6 credits of electives (3 credits for each of the First and Second Semesters) for the Second Examination, to be taken in the following manner:

(i) <del>not less than 6 credits of electives in Chinese and English language enhancement</del> a 3 credits English language enhancement course; and a 3 credits Chinese language enhancement course*;	6 credits
(ii) <del>not less than 3 credits of electives in Culture &amp; Value Studies, or in an area</del>	3 credits OR

of study offered outside the BA(ArchStud) curriculum a 3 credits of electives in Culture and Value Studies or a 6 credits IT-integrated course in Culture and Value Studies*;	6 credits*
(iii) <del>not less than</del> a 3 credits of electives in Humanities and Social Sciences or a 6 credits IT-integrated course* in Humanities and Social Sciences for Science and Engineering candidates; OR (iv) <del>not less than</del> a 3 credits of electives in Science and Technology Studies or a 6 credits IT-integrated course* in Science and Technology Studies for Non-Science candidates; and	3 credits OR 6 credits*
(v) <del>3 credits of electives in Information Technology related subject(s) (a candidate who has taken and passed Visual communications II is deemed to have satisfied the University's IT requirement and is waived from such requirement of taking 3 credits in information technology related subjects, the candidate is exempted from attending the course on Information Technology, and is not required to take and pass the proficiency test on Information Technology); or</del> a 3 credits course in an area of study offered outside the BA(ArchStud) curriculum.	3 credits

\* Students who have completed a 6 credits course in the IT-integrated course in any areas not required to fulfill item (v) above.

Note: Students failing to successfully complete 3 credits courses in Humanities and Social Sciences Studies, Science and Technology Studies or Culture and Value Studies by 2009-10 shall be required to satisfy the requirements in (ii) and (iii) by taking 6-credit courses in the Common Core Curriculum to be offered from 2010-11 onwards.

**Ar5** Candidates shall normally take 30 credits of courses in each semester, unless otherwise permitted or required by the Board of the Faculty.

### **Selection of courses**

**Ar6** Candidates shall select their courses in accordance with these regulations and the guidelines as specified in the syllabuses before the beginning of each semester. Such selection shall be subject to the approval of the Head of the Department of Architecture. Changes to the selection of courses may be made during the first two weeks of each semester subject to the approval of the Head of the Department of Architecture, and such changes shall not be reflected in the transcript. Requests for changes after the first two weeks of a semester shall not be considered, and a candidate withdrawing from any course without permission shall be given an F grade.

### **Assessment**

**Ar7** Candidates shall be assessed for each of the courses which they have registered for, and assessment may be conducted in any one or any combination of the following manners: written examinations or tests, written assignments or exercises, continuous assessment of performance, laboratory work, field work, research or project reports, or any other manner as determined by the examiners. Grades shall be awarded in accordance with UG 5 of the Regulations for First Degree Curricula.

## Grades

**Ar8** Courses for which a candidate is given an F grade shall not be counted towards the degree, but shall be recorded on the transcript of the candidate.

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**Ar9** Candidates may be required, in accordance with these regulations, by the Board of the Faculty to repeat a course or to follow another course as replacement, and/or to be re-assessed at a time specified by the Board. In such an event, the new grade obtained shall replace the previous grade in the calculation of the cumulative GPA, but that both grades shall be recorded on the transcript.

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**Ar10** Candidates shall not be permitted to repeat courses for which they have received a pass grade for upgrading purposes.

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## Failure in examination

**Ar11** Candidates who have failed in any of the electives may be required to repeat the same course in the next semester or academic year for re-assessment, or to select another elective as replacement provided that they can satisfy the course selection/combination requirements as stipulated under these regulations.

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**Ar12** The following clauses apply to candidates of all years.

- (a) Architectural 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 Architectural 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 Architectural Design at the second attempt shall not be permitted to proceed to the subsequent year of the curriculum and be required to repeat Architectural Design of that year and shall present themselves for examination only once more.
- (b)
  - (i) Candidates who have failed in not more than three other core 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 three other core 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.
  - (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 three other core 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 Architectural 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 core course or in Architectural 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 in Architectural Design and in more than three core courses in total in the year Examination at the first attempt shall not be permitted to proceed to the subsequent year and be required to repeat all failed courses and to present themselves for re-examination in the following academic year. If they failed again at the second attempt, they may be permitted to present themselves for re-examination in each failed course only once more at a specified date before the commencement of the following academic year.
  - (f) Candidates who have failed in Architectural Design or in any core 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.
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## **Degree classification**

**Ar13** At the conclusion of the Final Examination a pass list will be published in five divisions as follows: First Class Honours, Second Class Honours (Division I), Second Class Honours (Division II), Third Class Honours and Pass. The classification of honours shall be determined by the Board of the Faculty at its full discretion by taking into account the overall performance of the candidates and other relevant factors as appropriate.

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## **SYLLABUSES FOR THE DEGREE OF BACHELOR OF ARTS IN ARCHITECTURAL STUDIES**

Note: For the purpose of these syllabuses, 3 credits = 2 hours lecture per week

### **FIRST YEAR**

#### **ARCH1013. Architectural design I (24 credits)**

This whole year course is a comprehensive introduction to the foundation studies of architecture, addressing the core and related issues essential to the training of an architect.

The course aims to teach architectural literacy, to develop critical and analytical skills, to enhance visual, spatial and ideological sensibilities with certain emphasis on the presentation of ideas, concepts, and design both in the visual and verbal format.

Field trips form an integral part of the course.

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#### **ARCH1003. History and theory of architecture I (3 credits)**

This course carries out a critical survey of western architecture from pre-Classical times to the mid 18th century; covering the history, cultures, theories, essential characteristics and technologies of Greek, Roman, Early Christian, Byzantine, Romanesque, Gothic, Early/High Renaissance, Mannerist, Baroque to pre-Enlightenment periods in syncopated architectural developments of 'western' countries. Emphasis is placed on factors relating basic needs, cultures, economic, political situations and available technologies to art and architecture.

The course seeks to be thought provoking, to direct students towards an understanding of the relevance of history to design and to establish a foundation for approaches in the methodologies of study in history and theory of Architecture.

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#### **ARCH1004. History and theory of architecture II (3 credits)**

This is a general survey course on the history and theory of Chinese architecture, city planning, and landscape, covering the periods from ancient China to the mid-17<sup>th</sup> Century. It also includes the architecture and urbanism of other Asian cultures such as Japan, Korea, South-East Asia and India that had taken part in the formation of the architecture of this region. It introduces basic knowledge on culture and ideology, spatial concepts and formal characteristics, tectonic and environmental principles, as well as their social and symbolic significances.

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#### **ARCH1005. Principles of buildings I (3 credits)**

This course offers an introduction to the basic knowledge in design and construction process, with emphasis upon the principles, basic elements, materials, details, structure and form. Site visits and laboratory assignments form an integral part of the learning process. Case studies involving real projects will be conducted.

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#### **ARCH1006. Principles of buildings II (3 credits)**

The environmental issues of a building are introduced from the macroscopic to the microscopic environment. Prime physical governing factors are examined in relation to the needs of the occupants of the building. Laboratory work and site investigation for carrying out solar design for buildings using physical solar design tools as well as related software will be conducted. Basic building services for a shop/house will be covered.

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### **ARCH1007. Visual communications I (3 credits)**

*Drawing* serves as an introduction to the series of four courses which form the visual communications sequence. While touching upon the fundamentals of freehand drawing, the course focuses on two-dimensional computer generated line drawings and the construction of three-dimensional models with the aid of the laser-cutter. The course culminates with a presentation which collapses the entire terms work together in one didactic image.

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### **ARCH1008. Visual communications II (3 credits)**

The second course in the sequence, *Collage*, investigates methods to manage, manipulate, and envision information. An assortment of software will be utilised to link photography, drawing, illustration, painting, and filmic montage together using a wide range of digital processing techniques. Graphic design will be explored as a means to precisely describe a space visually by arranging discrete elements together in a logical and lucid manner.

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### **ARCH1011 & ARCH1012. Architecture and the creative industries I & II (3 credits each)**

These two courses aim to introduce architecture and design related disciplines (including design, fashion, advertising, art, antiques and crafts, film and video, game and software, music, performing arts, publishing, television and radio) – generally referred to as Creative Industries – to beginning undergraduate students. They assume no previous knowledge or training in the subject and serve to stimulate interest in understanding the creative process in these industries. Students will be required to attend departmental guest lectures as well as other events related to architecture and the creative industries as prescribed by the course coordinator.

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### **CARC1001. Practical Chinese language course for Architecture students (3 credits)**

建築學院實用中文課程

1. Practical Chinese writing skills 實用中文寫作技巧
  - a. The Chinese language: characteristics and usage 漢語特性和語文運用
  - b. Basic grammar of modern Chinese 現代漢語基礎語法
2. Chinese characters 漢字
  - a. Transformation of Chinese characters 漢字改革
  - b. Simplified characters 簡化字
  - c. Variant forms 異體字
3. Chinese for special purposes 專業中文寫作技巧
  - a. Notices and announcement 啟事及通告
  - b. Proposal, plan and report writing 建議書、計劃書、報告書
  - c. target-oriented writing 目標為本寫作
4. Presentation and communication techniques 表達與溝通技巧
  - a. Public speaking 演講技巧
  - b. Speech writing 演講辭的撰寫



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**ECEN1101. Communication course for Architecture students (3 credits)**

This course provides Architecture students with an opportunity to enhance their linguistic range specifically in describing buildings. The use of terminology is the focus both in short writing tasks and oral presentations. Aspects of presentation skills are practiced and developed using small-group project work and extensive use is made of videotaping for feedback. Assessment is wholly by coursework.

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**SECOND YEAR**

To broaden the education by immersion in issues and the culture of China, students are required to spend one semester in the Faculty's new facility in Shanghai to complete the curriculum.

**ARCH2013. Architectural design II (30 credits)**

This whole-year course focuses on environmental and spatial considerations with emphasis on the integration of building technology in design and the use of digital media in conceptualizing and presenting design ideas.

The course aims at developing both an awareness of architecture within a community environment and an ability to apply architectural language in design. A study of a community will be made paying particular attention to its architectural character and context. This study, which includes basic site survey, will form the basis of ensuing design projects, sketch designs and field studies.

Field trips form an integral part of the course.

Pre-requisite: ARCH1013.

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**ARCH2003. History and theory of architecture III (3 credits)**

This survey course, covering the period from approximately 1900 to 1945, provides students with a basic critical understanding of major developments in European and to a lesser extent, American and Asian architectural history during the first half of the 20<sup>th</sup> century, which is usually seen as the period of modern architecture's initial definition and realization. Rather than presenting modern architecture as one coherent and cohesive movement, this course attempts to illustrate the complexity of this period of history through a series of themes. Whether formal, theoretical, social, cultural, technological, economic or political in nature, these themes reflect moments of significant changes in architecture that occurred in response to the complex processes of modernization, most of which still remain relevant to our present circumstances. This course stresses the link between theory and practice, the relationship between architecture and its broad social context, and the connections between history and the present time.

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**ARCH2004. History and theory of architecture IV (3 credits)**

This course surveys the major architectural developments in Europe, America and Asia from 1945 to the present. Emphasis is placed on the understanding of the continuation, diversification, and transformation of the modernist tradition as well as the serious ruptures and radical departures that have taken place since the end of World War II. The simultaneity and rapidity of global and local politics, economy, culture and technology significantly impacted the theory and practice of architecture. Themes take into account the postwar reconstruction in Europe and Japan, widespread decolonization and the housing crisis, the continuation of war via the Cold War, the rise of America as the dominant superpower, the internationalization of American popular culture, and the more recent economic rise of

Asia. This course stresses the inextricable relationship between architecture and the global-local context, the interconnectedness of architecture and other disciplines, and the ongoing dialogue between architecture and its own history. A major objective of the course is to cultivate students' ability to read contemporary architecture in a precise context with an acute historical awareness of its various traditions and influences.

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**ARCH2007. Visual communications III (3 credits)**

*Methods of Fabrication.* By manipulating and controlling information available in the public domain, a GIS model will be constructed to form a landscape out of the pre-existing, mapped urban environment. Developing the information further, a three-dimensional computer model will be constructed to produce objects with a high degree of precision. By manufacturing the model from a series of computer controlled fabrication devices, including the CNC milling machine, the large-format laser cutter, and a three-dimensional resin printer, a highly precise physical model will be the final output.

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**ARCH2008. Visual communications IV (3 credits)**

*Animation,* the last visual communications course, examines techniques associated with forming narratives in architecture. Beginning with modelling complex spaces, the focus will be on producing a three dimensional model of geometric efficiently in order to control the time required to construct and render a project of substantial size. The final project consists of an animation which will utilize motion as a tool of design and discourse.

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**ARCH2011. Urbanism I (3 credits)**

This course offers a comparative study of the history of urban design. It covers the history of urban design from the earliest cities to the present day. It will introduce the process of urban design, examine planning theories, and synthesize urban morphology (opportunities and constraints of various urban forms).

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**ARCH2017. Urbanism II (3 credits)**

This course focuses on the formative urban transformations of the twentieth century and the associated urban theories that have motivated, and are still influencing construction and theories of cities today. Lectures and readings will cover topics that traverse time and space, ranging from the industrial revolution in 19<sup>th</sup> century Europe to the effects of globalization in contemporary Asian cities. Crucial writings on selected illustrative cities and their physical transformations as well as the contributing political, economic and social forces will be examined to reveal connections and relationships between the various developmental phases of the modern city and its theories.

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**ARCH2014. Technology of built environment I (3 credits)**

This course introduces more complex structural systems. Various wide span spatial form-resisting structures are covered. Tall vertical structures such as multi-storied structures are also discussed. Site investigation, shallow/deep foundations and retaining structures form part of the course as well.

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**ARCH2015. Technology of built environment II (3 credits)**

Basic environmental controls and basic building services will be covered in an integrated approach with construction and structural issues. Aspects of sustainability and energy efficiency in buildings and appropriate technical studies are key components of the course.

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### **THIRD YEAR**

To broaden the education by immersion in issues and the culture of China, students are required to spend one semester in the Faculty's new facility in Shanghai to complete the curriculum.

#### **ARCH3013. Architectural design III (30 credits)**

This whole-year course places emphasis on the development of a design ability to organize building processes of medium complexity within a social and economic framework and in the environmental context of Hong Kong. The course culminates with a comprehensive design project in depth and is assessed by an oral examination. Other design projects, measured drawings and sketch designs supplement the main coursework.

Field trips form an integral part of the course.

Pre-requisite: ARCH2013.

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#### **ARCH3003. History and theory of architecture V (3 credits)**

The history and theory course on Asia Architecture of BAAS 3 emphasizes basically on dwelling, garden/landscape, urban form, and modern movement in 20<sup>th</sup> century in Asia. The histories of architectures in the region with a richness of environmental and cultural diversities are introduced with a strong intention to building up in inter-relationship among them, and to formulate systematic knowledge as a counter part of that about Western Architecture. Experiential and Problem Based Learning methods are applied. Students are required to identify topics of research focusing Architectures in Japan, Korea, and Southeast Asia, on which previous knowledge on Architecture can be motivated in the research work.

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#### **ARCH3004. History and theory of architecture VI (3 credits)**

This course is a summation to the History and Theory series in the BAAS curriculum. Building upon foundation laid in earlier survey courses in the first and second years, this course introduces diverse themes for in-depth investigations in current architectural and urban discourses and provides guidance for further studies in the field. We shall look at research methodologies and the polemics of urgent issues in Urban and Architectural designs of the 21<sup>st</sup> century. The course shall examine contemporary papers and literature with a focus on current cross cultural and interdisciplinary investigations. A major objective is to inspire students towards an interest and a broad based knowledge of global concerns in topics of Architectural and Urban design. The unique position of Hong Kong as a key locale between the traditional 'East and West' divide shall be stressed as a point of departure for a new perspective from which to stage novel and relevant explorations.

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#### **ARCH3014. Design and practices of technology I (3 credits)**

In this course, knowledge of technology is disseminated as a tool to make architecture. Historical references outline the development of technology in the modern era. Development of technical design is revealed from working sketches, production documentation, and stages of professional practices.

Performance criteria of materials are discussed. The building enclosure is explained as an integrative system, with references to local / international examples.

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**ARCH3015. Design and practices of technology II (3 credits)**

Materials are presented as the basis of construction, in relation to environmental protection and application. Digital technology as a means to make architecture is explained. Awareness of technical documentation and specifications in design realization is revealed. The construction of architecture as a built environment for both physical and mental well being is discussed. Selected building types are discussed with reference to local / international examples.

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**ARCH3016. Digital media in architecture (3 credits)**

Parametric modelling will be examined as a means to form and construct a work of architecture. Instead of directly modelling individual components, the course focuses on scripting relationships between discrete elements in order to describe a space through an algorithmic process. Digital fabrication techniques will be used to extract the model in a manner which can be precisely machined and logically reassembled.

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**ARCH3017. Analysis of modern architecture (3 credits)**

The didactic intention of this course is twofold: first, to develop a capacity of close reading of significant architectural work, be it a canon in modern history, or a vital piece in the contemporary scene; and second, to cultivate an awareness of the continuous evolution and transformation of architectural language within the historical process, from the origin of modernism to the present. In contrary to a history survey that is commonly arranged in chronological order, this course will adapt a reversed itinerary. It starts from investigating the contemporary works by the architects such as Stirling, Venturi and Scott Brown, Rossi, Eisenman, Siza, Gehry, Koolhaas, and Herzog & de Meuron. After examining each body of work's unique contribution to the repertoire of architectural language, the course will run backward: it will measure each one's debt to the modernist tradition and attempt to trace out each one's evolutionary trajectory in history. In short, this course intends to make a critical review of the development of modern architectural language, through a contemporary lens.

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**ARCH3018. Building systems I (3 credits)**

More advanced structural applications of building structures are discussed. Topics such as innovative structures, natural & biomimetic structures, smart systems, kinetic structures & structural failures are discussed. Issues relating to the integration of structures within architectural and interdisciplinary fabric are covered. Current international and local issues on structural technologies are also highlighted and illustrated in lectures, case studies and studio design projects.

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**ARCH3019. Building systems II (3 credits)**

More complicated building services and environmental considerations in complex buildings are discussed. Topics on sustainable building design, technologies, certification will also be covered. Case studies and significant integration with design studio projects are essential parts of this course.

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**ARCH3022. Technology of built environment workshop (3 credits)**

Laboratory work and building workshops are undertaken as practical applications to topics introduced in the courses Technology of built environment I & II. Site visits are also key components of the course.

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**ARCH3021. Urbanism III** (3 credits)

In the 21<sup>st</sup> century, for the first time in human history, more people will live in cities than in the countryside. Knowledge of how cities function, understanding of the forces that drive their development, and engagement with the unique cultural conditions they generate are increasingly necessary components of a sophisticated approach to the practice of architecture. A course in contemporary urban studies, Urbanism III is intended to supplement survey courses in history and theory with a more focused and substantive review of timely topics in contemporary urban theory and practice.

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