Student Handbook

BArch

2022

Bachelor of Architecture Honours Degree Program
Department of Architecture
Faculty of Architecture, University of Moratuwa
April 2022

Welcome

I am pleased to welcome the students of 2022/23 to the BArch Program of the Department of Architecture of the University of Moratuwa.
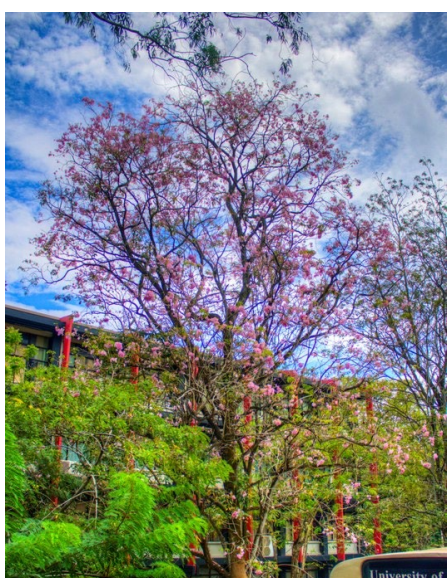
You all, as the best-performed youth, after your secondary educational journey, have entered a new phase of your life in the university education system. Now you will be offered more opportunities to explore the world and shape your life knowing what you want to be. This is your place, and your explorations will happen in everywhere here; lecture halls, studios, auditoriums, reading room, library, students' corner places and gathering places etc. We are here only to support you to build up yourself with your own biases, skill, and knowledge enhancements. We are all part of the UOM Architecture Department family, and I am sure this will continue even after you graduate and leave us.

The University education, which is the first step in learning the job to be done throughout your life, is challenging, yet enjoyable. Learning architecture while systematically understanding the association of science and art is more fun, yet one has to be much dedicated in this five-year exploratory journey. At some points you might find it challenging, but, I am sure at the end you will be pleased with what you did and be the winner again.

It is also important to mention that the design teaching and learning has evolved with online education and interactive systems that the whole world is experiencing at the moment, since the beginning of pandemic period, hence both teachers and students are much dedicated in their tasks. The whole Department will always be with you to cope up with any difficulties that you may face.

While congratulating all the new students, I wish the Department of Architecture of UoM all the best for the new academic year!

Archt. Plnr. Dr. KWJP Wijesundara
Head of the Department of Architecture

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&
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Introduction

The Bachelor of Architecture Honors (B Arch Hons) Degree program of the University of Moratuwa, Sri Lanka, is a five-year undergraduate degree program accredited by the Royal Institute of British Architects (RIBA Part II) and the Sri Lanka Institute of Architects (SLIA). A student completing the B Arch Hons Degree will be exempted from the Part II Examination of the Sri Lanka Institute of Architects which is the premier professional body governing the architectural profession in Sri Lanka.

The department of Architecture maintains a continuous and close relationship with the architectural profession and the building industry in the country. Towards this end, it regularly conducts seminars, workshops, and utilizes the services of practicing architects and other professionals in the building industry to the design studios for teaching specific modules of its programs.

> The aim is to repudiate the traditional, mono-disciplinary nature of academic culture that shows divisions between architecture, construction, and social, economic, and environmental sciences. Instead, the process and poetics of architecture are appraised through a modicum of enlightened technocracy, cultural inquiry, and social activism, to develop architecture graduates who are equipped to deal with the place-specific problems, possibilities, and challenges, while being informed of the conditions, developments, and discourses of the global practice.

The academic position of our architecture school is essentially born out of this bottom-up need to create professionals who could shoulder the national needs with sensitivity to the local environment, professional context, and social necessities while being exposed to the changing international discourses, developments, and concerns. In responding to these objectives of the school's academic program, the subsequent teaching content is structured under five major positions of architectural inquiry (Revalidation/RIBA document 2016).

- Assess architecture as a social craft, thus framing the function of architecture as a social and inclusive art and acknowledging the architect's inexorable role as a responsible practitioner, thinker, and member of the society at large.
- Sense of responsibility towards recognizing architecture as an environmental response, through strong research and theoretical content that examines how buildings perform in relation to specific climatic, topographic, and typological conditions.
- Emphasize the role of architecture as a material practice, imparting our students with the necessary skills and competency in determining tectonic systems, solutions, and advancements, and capacity to understand how design ideas are attuned to meet building performance challenges.
- To understand architecture as a process that acknowledges – and involves - the human element.
- View architecture as an intellectual pursuit, which is not only concerns concerned with design narration, philosophy, and aesthetics but also includes their ability to systematize, determine and communicate the technicalities of negotiating the art and science of an architectural approach.

Keeping in line with the aforementioned objectives, interpretations, and positions of the academic program, the curriculum structure is organized to trigger a process of gradual skill-building, complemented by a strategic examination of skills through targeted theory modules and design projects. The general teaching content also assists those students who seek opportunities to specialize in a chosen area of interest, while developing necessary skills to be a holistic architect.

The Program

The degree program includes three phases of progression namely,

1ˢᵗ Phase - Exposure and Discovery (levels 1, 2 & 3)

Level 1 and 2- First phase of progression provides a sound theoretical footing for the generation of innovative design responses in a complex situation.

Level 3 (1st half) - At the conclusion of this phase, all students take a Major Design Project (MDP) to demonstrate the knowledge and skills they acquired during the first 3 years of their architectural education.

2ⁿᵈ Phase - Apprenticeship and Integration (In-plant training)

Level 3 (2nd half) - Students are formally apprenticed in professional practice through a monitored training program. While gaining practical experience of design and building, students are expected to inquire - both thematically and practically – the complex and essential relationship that exists between the realms of architecture and the building process. Programmatically, this learning experience is also projected as an opportunity to further instill in students the profession's social and ethical responsibility and encourage them to re-evaluate the function of architecture as a social craft.

3ʳᵈ Phase- Synthesis and Consolidation (levels 4 &5)

Level 4- Academic program encourages students to critically evaluate - and respond to - both tangible and intangible objectives, concerns, and situations, which determine the role of the architectural profession in responding to specific societal and place-centric attributes of building production.

Level 5-To demonstrate the knowledge they have thus far acquired on architectural design and practice, the students complete a Comprehensive Design Project (CDP) and a Dissertation on a preferred area of study, with an option for majoring in a specific aspect of the profession. While it must be acknowledged that the specialization – or majoring – is not a critical goal of the program, the final year teaching content allows students to explore their own inclinations towards a particular area of specialized investigation, while consolidating themselves with the necessary skills to be a generalist.

Performance Criteria
HONOURS DEGREE OF BACHELOR OF ARCHITECTURE
THE FACULTY OF ARCHITECTURE – UNIVERSITY OF MORATUWA

Original
Approved by the council: 04.04.2007

Revisions
Revised clause No.5.5.4 Recommended by the Senate: 18.02.2015
Approved by the council: 05.08.2015

1. Admission

1.1   The admission requirements to the Honours Degree of Bachelor of Architecture shall be determined by the University Grants Commission (UGC) in accordance with the government policy and be based on an Aptitude Test conducted by the Department of Architecture.

2. Program

2.1   The academic calendar of the program consists of nine academic semesters, each 20 weeks in duration, and in-plant training of a minimum of 44 weeks duration.

3. Registration

3.1   At the commencement of each semester, students shall complete a prescribed Registration Form and pay the prescribed fees and other dues as determined by the University Senate. The Registration Form shall indicate the modules registered and shall be approved by the Academic Advisor.

3.2   Each student shall be responsible for the selection of program modules as required by the program structure approved by the University Senate, subject to availability of the modules.

3.3   A student who wishes to de-register from a module shall do so in writing within two (02) weeks of the commencement of the semester. De-registering a module after this deadline shall not be allowed and shall be regarded as a missed attempt, even if the student does not appear for any assessment and/or examination in that module.

3.4   A student who wishes to take an additional module or a replacement for a de-registered module may do so within two (02) weeks of the commencement of the semester with the approval of the Academic Advisor.

4. Program Structure

4.1   The Degree program offers five core areas of study (hereinafter referred to as Majors). The main Major of the program is Design which acts as the nucleus. The other four Majors are Profession, Environment, Technology, and Society. All the modules of these five Majors are compulsory during the First, Second & Third Levels and the first semester of the Fourth Level. Elective modules are allowed within a major during the second semester of Level Four. It is expected that students will demonstrate the specific field of inquiry within the selected major in the "Comprehensive Design Project" and the "Dissertation" in Level Five.

The selection of Major will be determined on the preference of the student and the performance in the Orientation Design Project (ODP) during the first semester of Level Four.

4.2   Credits
        Each module is assigned a credit value representing the student's workload. For a lecture module extending over one semester, one credit shall be assigned for each hour of academic lectures per week. For a Design module extending over one semester, one credit shall be assigned for three hours of studio work per week. The In-Plant Training shall be assigned ten (10) credits.

4.3   Modules
        The program has compulsory and elective modules.
        The modules offered during Level One, Two, Three, Five, and the first semester of Level Four is compulsory.
        All the Design modules in Level Four are compulsory.
        During the second semester of Level Four, the students should earn a total of 08 credits (excluding the credits for Design modules). Out of the above 08 credits, 04 credits (minimum) shall be from modules of the major and 02 credits (minimum) from the modules of the "Profession" major.

4.4   Modules from other Institutions
        A student shall complete the modules specified by the faculty and approved by the Senate, at the University of Moratuwa.
        A student may offer selected modules from other recognized institutions, to be able to earn credits, provided that prior approval is obtained from the Senate, on the recommendation of the Faculty Board before registering for the module.
        In such circumstances, it is the responsibility of the student to ensure that an official transcript of grades of such modules is forwarded to the Registrar of the University of Moratuwa through the Head of the Department.

4.5   Leave of Absence
        A student may be allowed to submit an application for leave of absence from the program of study for a maximum duration of twelve calendar months, for a determination by the University Senate on the recommendation of the Faculty Board.

5. Evaluation of Performance

The performance of students in each module shall be separately assessed by continuous assessments and/or end-of-semester examinations.

5.1   Academic rating
        Letter grades based on the Grade Point System (GPS) and the corresponding percentage marks as illustrated below will be used to express the performance in each module.

Notes:
Grade (C+) or above is required to earn a credit for the following modules: "DESIGN PROJECT" Modules in all Levels and "DISSERTATION" in Level Five.
Grade (D) or above, is required to earn a credit for all the other modules (except the modules listed under (a) above).

The Panel of Examiners may request the students to make specific improvements to the coursework and re-submit within a period of 6 weeks. Such re-submissions shall be examined by a panel consisting of a Professor of Architecture, the Year Person, and a Studio Person, and if satisfied allocate the mark recommended by the Panel of Examiners.
*An external examiner for this purpose shall be a professionally qualified Architect approved by the Council on the recommendation of the Senate, Faculty, and the Head of the Department of Architecture, University of Moratuwa, and shall be one who does not teach the portfolio assessed modules to the students.

Table 01; Grade point system

Guideline Grade Boundaries(%)ᵍ	Grade	Grade Point	Interpretation
85 and above	A+	4.20	
75 – 84	A	4.00	Excellent
70 – 74	A-	3.70	
65 – 69	B+	3.30	
60 – 64	B	3.00	Good
55 – 59	B-	2.70	
50 – 54	C+	2.30	Satisfactory pass(a)
45 – 49	C	2.00	Possesses basic skill
40 – 44	C-	1.50	Weak pass(c)
35 – 39	D	1.00	Conditional pass(b)
34 and below	I	0.00	Incomplete(d)
34 and below	F	0.00	Fail(e)
	N	–	Academic concession(f)

5.2 The Design Stream Modules in Level One, Two & Four

The performance of a student in Design studio modules in Level One, Two, and Four shall be assessed during both semesters and be included in a Portfolio for moderation at the end of the second semester.

The portfolio shall be moderated by a panel consisting of a Professor of Architecture, the Year Person, a Studio Person, and one External Examiner. *

The Panel of Examiners will review the marks received by the students for the modules and moderate the same considering the level of performance expected in the given year and the competencies required to proceed to the next level of study.

The Panel of Examiners may request the students to make specific improvements to the coursework and re-submit within a period of 6 weeks. Such re-submissions shall be examined by a panel consisting of a Professor of Architecture, the Year Person, and a Studio Person, and if satisfied allocate the mark recommended by the Panel of Examiners.

*An external examiner for this purpose shall be a professionally qualified Architect approved by the Council on the recommendation of the Senate, Faculty, and the Head of the Department of Architecture, University of Moratuwa, and shall be one who does not teach the portfolio assessed modules to the students.

5.3 The Major Design Project in Level Three

The performance of a student in the Major Design Project (MDP) in Level Three shall be assessed by a Panel of Examiners consisting of a Professor of Architecture, the Year Person, A Studio Person, and an External Examiner. *

A student who receives a "C" grade in the MDP assessment may be allowed to make the improvements specified by the Board and resubmit within a period of one month. It shall be examined by a panel consisting of a Professor of Architecture, the Year person, and a studio person, and if satisfied upgrade the mark to receive a "C+" grading.

A student who receives a grade of "C-" or below for the MDP shall repeat the module in a subsequent academic year.

*An external examiner for this purpose shall be a professionally qualified Architect approved by the Council on the recommendation of the Senate, Faculty, and the Head of the Department of Architecture, University of Moratuwa, and shall be one who does not teach the above subject to the Third Year Students.

5.4 The Comprehensive Design Project in Level Five

The performance of a student in the Comprehensive Design Project (CDP) in Level Five shall be assessed in two stages:

Stage I:
A Panel of Examiners consisting of a Professor of Architecture, the Head of the Department, the Year Person, and a Studio Person will examine the CDP submitted.

The marks of the examination together with comments will be submitted to a Panel of External Moderators by the Head of the Department.

Stage II:
A Panel of External Moderators consisting of at least two eminent architects, recommended by the faculty, and approved by the Senate (one of whom shall be from another country and with recognized credentials) shall examine the CDP for the purpose of moderation of marks in the presence of the Board of Examiners mentioned in Stage I above and the candidate.

A student who receives a "C" grade in the CDP examination will be allowed to make the improvements specified by the panel of External Moderators and resubmit within a period of one month. It shall be examined by a panel consisting of a Professor of Architecture, the Year Person, and a Studio Person, and if satisfied upgrade the mark to receive a "C+" Grading.
A student who receives a grade "C-" or below for the CDP shall repeat the module in a subsequent academic year.

5.5   Prerequisites to register for Level Two, Three, Four, and Five
5.5.1   Students must earn credits for the Design modules at Level One, Two, and Four to register for the subsequent Level. A credit in Major Design Project at Level Three is essential to register for Level Four.
5.5.2   Students must obtain credits for all the modules of Level One to register for Level Four.
5.5.3   Students must obtain credits for all the modules of Level Two to register for Level Five.
5.5.4   Students must obtain a credit for the   Essay- Architectural Design & Social Studies (AD 3030) module of Level Three to register for Level Five.

5.6 The Board of Examiners

A Board of Examiners appointed by the Senate on the recommendation of the Faculty Board comprising of Examiners and Moderators of all modules will meet at the end of each semester to decide on the performance and academic rating of each student registered for that semester.

5.7 Semester Grade Point Average (SGPA)

The calculation of the Semester Grade Point Average (SGPA) shall be based on the summation of Grade Points earned for all modules registered for credit [except those awarded with Academic Concession] in a semester weighted according to the number of credits as given in the formula below:

$$SGPA = \frac{\sum n_i \times g_i}{n}$$

where n_i is the number of credits for the ith module in a given semester and g_i is the Grade Point earned for that module; n is the total number of credits for that semester.

In Level One, Two, and Four, Design stream modules assessed by Portfolio will be considered as second-semester work for the calculation of the SGPA.

5.8   Unsatisfactory standing & academic probation

If the student's Grade Point Average falls between 1.50 and 2.00 the student will be placed Academic Warning. Any student with a SGPA less than 1.50 will be placed on Academic Probation. Academic probation and/or Academic Warning may be withdrawn when the relevant SGPA is upgraded to 2.00 or more. A student on academic warning or Academic Probation will not be allowed to carry any additional academic load. A student who falls into one of the following categories due to failure to upgrade the SGPA will be temporarily discontinued from the program:

SGPA < 1.50 in any two semesters;
SGPA < 1.50 in any semester and 1.50 ☐ SGPA < 2.00 in any two-semester;
1.50 ☐ SGPA < 2.00 in any four semesters.

5.9   Overall Grade Point Average (OGPA)

The OGPA is the final standing of the student calculated on the basis SGPAs with the following weightages. The OGPA will be the weighted total of SGPAs, divided by 20.

Table 02; Weightage factor

Year of study	Weightage factor per semester
Level 1 SGPAs	01
Level 2 SGPAs	01
Level 3 SGPAs	02
Level 4 SGPAs	02
Level 5 SGPAs	04

5.10   Current Grade Point Average (CGPA)

The CGPA describes a student's current GPA based on the grades obtained for all the modules registered to date and weighted according to the credit values and the Level of study. The weights assigned in Section 5.9 for different Levels of study shall be applied in the calculation of CGPA.

5.11   Award of Classes

The award of Class is determined at the completion of all the graduation requirements based on the OGPA cut-off as indicated below. A class may be awarded only to a student who has completed all graduation requirements within six (06) academic years.

Table 03; Award of Classes

OGPA	Academic Standing
3.70 or above	First Class
3.30 – 3.69	Second Class – Upper Division
2.70 – 3.29	Second Class – Lower Division
2.00 – 2.69	Pass

5.12   Academic concession

A student who has missed an end-of-semester examination due to illness or other compelling reasons shall inform the Registrar within 48 hours of the completion of the examination, to be considered for academic concession. Documents supporting the illness/other compelling reason shall be submitted to the Senate for its approval with the recommendation of the Dean and the Head of the Department within two weeks of the date of examination.

5.13   Dean's List

A full-time undergraduate student who obtains an SGPA of 3.80 or greater in any one semester may be recommended by the Board of Examiners to be included in the Dean's List provided all of the following conditions are met:

    i.   The student has completed the minimum number of credits during the semester.
    ii.   The student has no "Incomplete" or "Failure" grades.
    iii.   The student was not subject to disciplinary action.

Such a placement will also be noted on the student's transcript.

6. Graduation Requirements

6.1 A student enrolled for the Honours Degree of Bachelor of Architecture shall follow a program of study as a full-time student for a minimum period of five academic years

6.2 A student shall satisfy the following requirements in order to be admitted to the Honours Degree of Bachelor of Architecture:

6.3 A student will not qualify for the award of Honours Degree of Bachelor of Architecture if the graduation requirements given in Section 6.2 are not satisfied within ten academic years from the date of first registration.

7. Effective Date of Award

The effective date of the degree shall be the first day of the month following the satisfactory completion of the graduation requirements as confirmed by the Senate.

7.1   Date of conferment of the degree
The date of conferment of the degree shall be the date of the convocation in which the degree is conferred on the candidate.

8. Definitions

"Department" means the Department of Architecture, Faculty of Architecture, the University of Moratuwa as constituted by the Universities Act No. 16 of 1978, subsequently amended.

"Faculty" means the Faculty of Architecture, the University of Moratuwa as constituted by the Universities Act No. 16 of 1978, subsequently amended.

"Faculty Board" means the Faculty Board of the Faculty of Architecture, the University of Moratuwa as constituted by the Universities Act No. 16 of 1978, subsequently amended.

"Senate" means the Senate of the University of Moratuwa as constituted by the Universities Act No. 16 of 1978, subsequently amended.

"Registrar" is the Registrar of the University of Moratuwa as constituted by the Universities Act No. 16 of 1978, subsequently amended.

"Head of the Department" means the Head, Department of Architecture, the University of Moratuwa as constituted by the Universities Act No. 16 of 1978, subsequently amended.

"Year Person" is a member of the academic staff of the Department of Architecture, University of Moratuwa, being in charge of a Level of study.

"Studio Person" is a member of the academic staff of the Department of Architecture, University of Moratuwa, imparting Design teaching.

SYLLABUS- LEVEL 01

LEVEL 01 - SEMESTER I

History of Art and Architecture - Sri Lankan I	Module Code	Credits	Hours /Week	
	AS 1020	1.0	Lectures	
			Lab/Studios	
Compulsory (GPA)	Learning Objectives			
	• To see Architectural History as a combination of processes in historical settings rather than a collection of 'styles' and 'periods'. • To understand that history generates architecture in the same way that social problems do and to so establish inter-connections between them. • To encourage creative thinking in a theory subject as in design.			
	Outline Syllabus			
	• The folk traditions in the rural vernacular of Art and Architecture in Sri Lanka. • The transformation of the colonial experience into urban vernacular imagery.			

Design Fundamentals	Module Code	Credits	Hours /Week	
	AD 1080	1.0	Lectures	1.0
			Lab/Studios	1.0
Compulsory (GPA)	Learning Outcomes			
	On the successful completion of the module, students will be able to:			
	• Understand the difference between "Designed" and "Non-Designed" objects/ Spaces/ Buildings • Interpret the process of Architectural Design • Understand the principles of composition & apply the same in 3D compositions.			
	Outline Syllabus			
	• The synthesis of 'Utility', 'Technology' and 'Aesthetics' in Design/ Architecture • Design Elements- line, Texture, Colour, shape • Design Principles-Rhythm, Pattern, Balance, Symmetry, Contrast, Unity, Emphasis • "Proportion" and "Scale" in 3D composition • The significance of "Meaning" in composition/architectural design			

Research and Communication	Module Code	Credits	Hours /Week	
	AP 1010	1.0	Lectures	0.5
			Lab/Studios 1.0	
Compulsory (GPA)	Learning Objectives			
	• To help students improve and communicate effectively in English, acquire basic research skills.			
	Outline Syllabus			
	• The process of communication. • Effective speaking • Reading and listening. • Non-verbal communication. • Communication in Groups. • Writing reports. • Introduction to research.			

Sri Lankan Studies	Module Code	Credits	Hours /Week	
	AS 1040	1.5	Lectures	1.5
			Lab/Studios	
Compulsory (GPA)	Learning Objectives			
	• To get an understanding of the historical chronology and the socio-cultural background of the Sri Lankan society.			
	Outline Syllabus			
	• Effects of geography and climate on the historical distribution of settlement patterns. • Arts and Crafts as sources of cultural identity. • Understanding of the traditional as an important factor needed for the sustainability of the Sri Lankan society.			

LEVEL 01 - SEMESTER II

Climate and Comfort	Module Code	Credits	Hours /Week	
	AE 1010	1.5	Lectures 1.5 Lab/Studios	
	Learning Objectives			
Compulsory (GPA)	• This module aims to enable students to perceive the complexity of natural and man-made environments and their relationships to both macro and micro levels • The learning process begins with the inculcation of appreciation of environmental issues involved in the production of the built environment. The desired goal of the built environment is then presented together with the given climatic context.			
	Outline Syllabus			
	A. Environmental issues faced by designers i. Global trends ii. Energy & Environment iii. Urbanization & Environment- Climate Changes B. Climate & Weather i. Thermodynamics ii. Solar radiation iii. General circulation iv. Variations to the general circulation v. Elements of Climate vi. World Climates vii. Climate effects viii. Sri Lankan Climate C. Thermal Comfort i. Psycho-physics- Human energy balance ii. Psychometric iii. Comfort Indices			

Social Studies –I	Module Code	Credits	Hours /Week	
	AS 1010	2.0	Lectures 2.0 Lab/Studios	
	Learning Objectives			
Compulsory (GPA)	• To make the students aware of the social phenomena around them. through its interpretation in the products of society and that which is recognized as society and culture. • Understanding the relationship between society and architecture.			
	Outline Syllabus			
	• Society and Social Studies • Social Processes & Buildings • Cultural Evolution and its significance • Social Implications of Architecture • Politics of Space			

Structure -I	Module Code	Credits	Hours /Week	
	AT 1010	2.0	Lectures	2.0
			Lab/Studios	
Compulsory (GPA)	Learning Objectives			
	- To expose students to the fundamental concepts and principles of structure. - To gain an understanding of the nature and origin of forces that can be expected to act on buildings and the way these farces are transmitted and resolved. - To become familiar with structural materials and their properties.			
	Outline Syllabus			
	- Introduction - Basic concepts - Loads on structures - Properties of structural sections - Basic states of stress - Structural materials - Beams - Walls & columns - Foundations & retaining walls - Simple structural layouts.			

Construction Technology - I	Module Code	Credits	Hours /Week	
	AT 1020	2.0	Lectures	2.0
			Lab/Studios	
Compulsory (GPA)	Learning Objectives			
	- Introduction to Principles of Building and construction technology. - Identifying the need for site selection, analysis, location of buildings, and orientation. - Introduction to building elements. - Familiarization with basic building materials.			
	Outline Syllabus			
	- Foundation - Walls - Doors and Windows - Roofs - Staircases - Finishes - Concrete - Site selection, site analysis - Orientation, location of buildings.			

Perspectives & Sciography	Module Code	Credits	Hours /Week	
	AD 1020	2.0	Lectures	
			Lab/Studios	4.0
Compulsory (GPA)	Learning Objectives			
	• Acquire skills in graphical communications of 3D through manual drafting			
	Outline Syllabus			
	• Introduction: Drafting instruments & materials, Drafting techniques. • Orthographic Isometric & Axonometric projections: Introduction to technical drawings/ plans, sections, elevations, details. • Sociography: Construction of shades & shadows. • Shortcut method in Perspectives: Construction of one & two perspectives. • Perspectives: Introduction to Arial & worm's eye views & three-point perspectives.			

History of Art and Architecture – World	Module Code	Credits	Hours /Week	
	AS 1030	1.5	Lectures	1.5
			Lab/Studios	
Compulsory (GPA)	Learning Objectives			
	• To acquaint the student with an overview of Western Art/ Architectural history from prehistory to the Renaissance. • To get an understanding of history and the philosophies of Architects, Designers, and Artists in the world of art & architecture during the modern period. • To familiarize with them and draw parallels and be inspired by their work.			
	Outline Syllabus			
	• The ancient and medieval periods • Industrial revolution to Modern movement: • Development of Interior Decorative Arts from Victorian middle-class style to Arts Nouveau style: • Interior decorative arts and Modern movement: • Post-Modern Era: • Organic Architecture			

Colour	Module Code	Credits	Hours /Week	
	AD 1030	1.0	Lectures	
			Lab/Studios	2.0
Compulsory (GPA)	Learning Objectives			
	• To introduce the fundamentals of color theory and to recognize colour as an integral part of architecture and design. • To promote the application of color theory and terminology. • To encourage experimenting with color application.			
	Outline Syllabus			

	• Physics of color/ theory and terminology
	  Definition and interpretation
	  Tone, Saturation, Lightness, Intensity, and temperatures
	• Psychology of Colour
	  Color Vision and the human eye.
	• Tradition of Colour
	  Symbolism, Subjectivity, Meanings, and Associations
	• Orderly Arrangements of color/ Color Systems
	  Monochromatic, Complementary, Analogous, Triads, etc.
	• Usage of Color
	  Trends, Materials, Pigments, Finishes.			

Design Projects	Module Code	Credits	Hours /Week	
	AD 1070	6.0	Lectures	
			Lab/Studios	12.0
Compulsory (GPA)	Learning Objectives			
	• Acquisition of Concepts and Skills, necessary for understanding design as a specialized activity and presentation of such understanding for mutual assessment and sharing, and acquisition of ideas Concepts and skills necessary for design interventions.			
	Outline Syllabus			
	• D & 3D composition • Anthropometrics • One-day project • Measured drawing • Major project			

Nature Studies	Module Code	Credits	Hours /Week	
	AD 1040	2.0	Lectures	1.0
			Lab/Studios	2.0

Compulsory (GPA)

Learning Objectives
• To identify 'nature' as a major source of inspiration to Architecture & Design.

Outline Syllabus
• Forms in nature, as per their Function, Context, and Composition are studied via practical assignments. • Introductory Study: • To create a rapport with nature, understanding its moods, relationships, and details via an expedition in a reserved forest or similar. • Detailed Study: • Study of nature via selected Models in flora (Model 1) & fauna (Model 2). • Scientific observation: Adaptation to the primary function, secondary functions, and adaptations to the context are studied • Aesthetic observation: Studying the form & its components such as line, texture, colour, shape, geometric progression to understand its ordering principles such as symmetry, rhythm, axis, etc. • Interpretation: Expressing the gist of form.

Structure Project	Module Code	Credits	Hours /Week	
	AD 1060	1.0	Lectures	
			Lab/Studios	2.0

Compulsory (GPA)

Learning Objectives
• Introduce different forms of structures used in the fields of architecture and engineering • Understand the principles behind different structural forms. • Design and create a visually attractive and stable structural form. • Understand the behaviour of materials ad acquire skills making of in 3-dimensional models.

Outline Syllabus
• Identification of main structural forms used in architecture such as domed structures, folded plates, Tensile structures, space frames, Vaults, Shells etc. • Study of the principles, types, constructional processes, precedents (natural, historical, and contemporary of the structural forms. • Experiment and production of small and large models to demonstrate the behaviour of selected structural forms.

Experiencing Architecture & Documentation	Module Code	Credits	Hours /Week	
	AD 1050	1.0	Lectures	
			Lab/Studios 2.0	
Compulsory (GPA)	Learning Objectives			

- Provide students with an opportunity to experience and appreciate significant examples of Sri Lankan Art & design.
- Encourage students to draw inspiration for their design works.
- Enable students to acquire basic skills in documenting, built forms and art forms capturing the essence of them and communicate communicating through graphic.

Outline Syllabus

- Study visits to selected Sri-Lankan contemporary significant architectural works.
- Study visits to selected Sri- Lankan ancient and /or medieval and / colonial period Significant architectural works.
- Project on study and document of selected historic buildings and objects with reference to their socio-cultural and economic contexts.
- The submission to in the form of a report and set of measured drawings.

Freehand Drawing	Module Code	Credits	Hours /Week	
	AD 1010	2.0	Lectures	
			Lab/Studios 4.0	
Compulsory (GPA)	Learning Objectives			

- To introduce, familiarize and develop students' ability to draw interpret forms, colour, texture, and detailing.
- To teach rendering techniques relevant to architectural studies.
- To develop their analytical thinking and interpretation of them.
- To draw within a limited time at an actual setting with natural forms

Outline Syllabus

- Pencil Rendering
- Perspective (eye level)
- Object drawing
- Pen & Ink
- Composition of Architectural Details (Kelaniya temple)
- Study of Trees
- Lettering
- Colour drawing
- Drawing Animals

English	Module Code	Credits	Hours /Week
	AP 1020	1.5	Lectures 0.5 Lab/Studios 2.0

Compulsory (GPA)

Learning Objectives

- Facilitate students to improve the knowledge of English and the skills of using the language in order to carry out the academic work efficiently.

Outline Syllabus

- Listening to comprehensive passages
- Guided Compositions
- Introduction of basic grammar concepts
- Parts of Speech
- Tenses
- Letter writing
- Vocabulary development exercises
- Report writing
- Methodology to be used for an effective presentation of a project

SYLLABUS- LEVEL 02

LEVEL 02 - SEMESTER I

<table>
<tr><td>Principles of Acoustical Design</td><td>Module Code</td><td>Credits</td><td colspan="2">Hours /Week</td></tr>
<tr><td></td><td>AE 2030</td><td>1.0</td><td>Lectures
Lab/Studios</td><td>1.0</td></tr>
<tr><td></td><td colspan="4">Learning Objectives</td></tr>
<tr><td>Compulsory (GPA)</td><td colspan="4">• To cover some basics of Architectural Acoustics</td></tr>
<tr><td></td><td colspan="4">Outline Syllabus</td></tr>
<tr><td></td><td colspan="4">
• Wave Motion – Introduction to mechanical and electromagnetic waves, Transverse and longitudinal waves, the definition of wavelength, frequency and speed of a wave, root mean square, peak, and the average value of the aptitude of a wave.
• Nature of sound – Propagation of a sound wave, speed of sound in a medium, sound and hearing, sound frequency spectrum, sound threshold of hearing and threshold of pain in terms of sound intensity and sound pressure, use of a Logarithmic scale, Decibel scale, sound intensity level, sound power level, sound pressure level, Measurement of sound level, typical sound levels, worked examples.
• Noise – Effects of noise on man, permissible noise exposure limits, Noise criteria.
• Properties of sound waves - Reflection and transmission at smooth, rough, and curved surfaces.
• Room Acoustics – Reverberation field, sound absorption, the absorption coefficient of common building materials, Reverberation time, Sabine's formula, Optimum, Reverberation, worked examples, Acoustical defects, Echo control principles.
</td></tr>
</table>

<table>
<tr><td>Building Services, I</td><td>Module Code</td><td>Credits</td><td colspan="2">Hours /Week</td></tr>
<tr><td></td><td>AT 2020</td><td>1.0</td><td>Lectures
Lab/Studios</td><td>1.0</td></tr>
<tr><td></td><td colspan="4">Learning Objectives</td></tr>
<tr><td>Compulsory (GPA)</td><td colspan="4">• The module will enable the acquisition of awareness of the principles and competence necessary for the design and efficient integration of service systems with different types of buildings. Exposure to different types of services and specialized systems will be offered to enable the acquisition of skills necessary for the successful application of building services in design interventions.</td></tr>
<tr><td></td><td colspan="4">Outline Syllabus</td></tr>
<tr><td></td><td colspan="4">
• Drainage systems   - above ground, below ground, and stormwater.
• Refuse disposal.
• Ventilation.
• Pipe sizing.
• Hot water and cold-water
</td></tr>
</table>

Spatial Planning and Design	Module Code	Credits	Hours /Week	
	AE 2040	1.0	Lectures	1.0
			Lab/Studios	
Compulsory (GPA)	Learning Objectives			
	• The Environmental Planning and Development sub-stream inculcates a macro perspective on the living environment. It approaches this macro environment as a created ecosystem dependent and integrated with the natural ecosystem. The sub-stream deals with the planning, design, implementation, and management of the macro environment. • The learning process begins with an overview of macro-environmental issues facing Architects today. Environmental Planning and Design issues in the students' immediate context are then presented. The core unit section ends with an introduction to urban design and environmental management techniques.			
	Outline Syllabus			
	• Design of new towns & residential neighborhoods – few local examples. • Introduction to Urban Design. • Goals & objectives of planned interventions. • Planning process. • The emergence of the modern urban planning process.			

History of Architecture-Sri Lankan II	Module Code	Credits	Hours /Week	
	AS 2020	1.5	Lectures	1.5
			Lab/Studios	
Compulsory (GPA)	Learning Objectives			
	• To provide a background to study the History of Sri Lankan architecture with reference to social, cultural, and religious contexts. • To provide an understanding of principles of ancient and medieval period town & village planning. • To provide an understanding of the evolution pattern religious and secular architecture of Sri Lanka.			
	Outline Syllabus			
	• Sources of information available for the study of History of Sri Lankan Architecture • The principles adopted in the planning of towns and villages. • Buddhist monastic architecture of different periods. • Detailed study of the architecture of Image houses, Hindu shrines, and Devalas. • Detail study of secular architecture Kandyan period. • Colonial influenced architecture of Sri Lanka. The post-independence period architecture of Sri Lanka.			

Social Studies II	Module Code	Credits	Hours /Week	
	AS 2010	1.5	Lectures 1.5 Lab/Studios	
Compulsory (GPA)	Learning Objectives			
	• SCT 201 aims at the acquisition of theoretical understanding and skills necessary to comprehend the social implications of architectural interventions. It may sharpen the skills of the students in interpreting a society or a social background of built forms, thus strengthening their ability to assess and produce more socially fit built forms. The program will constantly raise the two key questions. • What can we understand about a society by examining its designed products? • What can we understand about a design product by examining the society in which they exist?			
	Outline Syllabus			
	• Design products are socially oriented creations, and they result from diverse social needs and accommodate a variety of functions- economics, social, political, religious, and cultural. Society does produce its designs, and these designs help society to maintain and transcend its essence. As they tend to stand longer than the lives of individuals, thus representing a social and cultural continuity, these design products acquire layers of time depicted by new colors, new elements, new approaches, or to lose elements. SCT 201 teaches the social-cultural evolution in Sri Lanka, constantly referring to the world/ global context. • The program comparatively analyses the societies that exist as well as sociological theories that allow one to carry out such analysis. Design concepts such as time/ space and social concepts such as place are drawn into contention to make the links between society, design, and people. This will provide a theoretical foundation for understanding and interpreting design products, social and psychological relationships in which such products do exist.			

Design Theory I	Module Code	Credits	Hours /Week	
	AD 2010	1.0	Lectures 1.0 Lab/Studios	
Compulsory (GPA)	Learning Objectives			

- TOD is thus about teaching-learning the Attitudes of a Design fact, the essence of the Process of creating it and a strategy of Mastering it, about the forces that Generate such products and the Modifiers thereof, and the Language with which it may be made to Converse. It is about learning the required knowledge, skills, and attitudes. The implementation /practice of these skills etc. will have to be outside the subject of TOD
- It begins with the acknowledgement that the knowledge that is sought to be 'given' already exists, covertly or overtly, and needs only to be brought out, through the teaching process.
- And, following from the dictum that learning in the Qualitative/ Affective Domain happens best when it is 'picked up' rather than when it is 'given' (Benjamin Bloom), lectures are organized; lectures are given more to inculcate a manner and direction of thinking rather than to transfer a particular viewpoint.
- The strategy, therefore, is to plant a seed so that students may climb their own tree rather than to have them climb the lecturers' trees
- Accordingly, the first set of lectures/assignments will be on trying to understand what Design is, the second set to discover how one may create a Design fact, the third, find out what generates them, and the fourth the language with which it is made.

Outline Syllabus

- The Design Process – the fusion of the intuitive and the intellectual.
- Generators of a Design fact – Generators, Modifiers, and Sources of Inspiration.
- The Language of Design.
- Appreciation of a Design fact – Experiencing, Review and Evaluation.
- Mind mapping technique developed to explain one's thinking and reasoning to explain both Design Thinking as well as to answer questions.
- The exercise in Book Review as in DES 105.
- An exercise in Design appreciation.
- Exercise in the development of Basic 'Art of Design' skills (sensitivity to Aesthetic of Place, understanding the Psycho Socio Profile of a User, sensitivity to 'Corporate Objectives, etc.).
- The Theoretical issues related to Design Projects.
- Exercises to understand the Principles of the Language of Design.

LEVEL 02 - SEMESTER II

Introduction to Building Economics	Module Code	Credits	Hours /Week	
	AP 2010	1.0	Lectures	1.0
			Lab/Studios	
Compulsory (GPA)	Learning Objectives			
	• The aim of the building economics sub-stream is to enable an understanding of macro and micro-scale economic parameters affecting the design of the spatial environment. It will inculcate skills necessary for the application of cost planning and cost control techniques in building.			
	Outline Syllabus			
	• Demand/ Supply/ Utility Theory • Indifference Theory/ Production costs/ Market Structures • Construction Industry and its stakeholders – Role of Architect • RIBA Plan of work – Design Process /Design Team.			

Solar Geometry and Heat Transfer in Buildings	Module Code	Credits	Hours /Week	
	AE 2010	2.0	Lectures	2.0
			Lab/Studios	
Compulsory (GPA)	Learning Objectives			
	• It will enable the acquisition of tools and skills necessary for the achievement of indoor environmental comfort (Visual & Thermal) with energy economy. The sub-stream takes note of the fact architectural design modifies the given environmental context in such a way that a thermally comfortable environment is created.			
	Outline Syllabus			

	• Global Context
	   a. Solar position and shading calculations.
	   b. Climatic elements and their effects.
	   c. Heat transfer mechanisms.
	• Environmental Context
	   a. Global warming.
	   b. Active systems and passive systems of climate control.
	• Building Context
	   a. Heat gain in buildings in the tropics – the problem.
	   b. Building heat flow and building characteristics.
	   c. Prevention of indoor overheating.			

Principles of Lighting Design	Module Code	Credits	Hours /Week	
	AE 2020	1.0	Lectures Lab/Studios	1.0
Compulsory (GPA)	Learning Objectives			
	- The module will enable the acquisition of tools and skills necessary for the achievement of visual environment comfort. - The learning process begins with the inculcation of appreciation of environmental issues involved in the production of the built environment. The desired goal of environmental comfort is then presented together with the given climatic context. In-depth knowledge and skills necessary for the analysis of natural and artificial lighting are inculcated in the students. The core curriculum of the sub-stream ends with the presentation of tools needed for the achievement of environmental comfort with the energy economy.			
	Outline Syllabus			
	- Introduction to lighting physics. - Lighting fundamentals. - Visual comfort in the luminous environment. - Lighting quality (color vision, color rendition)			

Structures II	Module Code	Credits	Hours /Week	
Compulsory (GPA)	AT 2010	2.0	Lectures Lab/Studios	2.0
	Learning Objectives			
	The module will enable the acquisition of awareness of the materials and technology and components of different building types, including the sequence of building operations in the construction of the building and its fabric and the principles underlying the design of structural systems.			
	Outline Syllabus			
	- Structural systems - Structural design - Reinforced concrete structures - Pre-stressed concrete structures - Steel structures - Masonry structures - Timber structures			

Construction Technology II	Module Code	Credits	Hours /Week	
	AT 2030	2.0	Lectures 2.0 Lab/Studios	
Compulsory (GPA)	Learning Objectives			
	- Provides advanced studies to the introductory structure obtained in the first year of study - Adopts a more practical oriented approach to expose students to system/material selection, specification, detailing, inspection			
	Outline Syllabus			
	- Bricks, blocks & stones. a) Roof & wall claddings. b) RCC - Concepts of multi-story and long-span structures. - Studio Project. - Assignment – study of a selected building (site/note/sketch pad)			

Computer-aided Drafting	Module Code	Credits	Hours /Week	
	AD 2030	1.0	Lectures Lab/Studios 2.0	
Compulsory (GPA)	Learning Objectives			
	Provide skills for presentation and drafting 2D drawings.			
	Outline Syllabus			
	- Introduction to CAAD software. 2-D drafting.			

Design Projects (4-5 nos.)	Module Code	Credits	Hours /Week	
	AD 2040	11.0	Lectures	1.0
			Lab/Studios	9.0
Compulsory (GPA)	Learning Objectives			
	- Understanding of ideas, concepts, and skills necessary for design interventions focusing. - Brief interpretation, with respect to the needs of the client. - Issues related to contextual, Socio-Cultural, and functional context. - Generators and modifiers of architecture. - Ability to work as part of a team.			
	Outline Syllabus			
	- Understanding and interpretation of an ambiance of an existing building composition and a place, and response to it. - Understanding and interpretation of the Socio-Cultural profile of a personality/family and response to it. - Responding to major Generators of architecture. - Responding to a process involved with industry and manipulating spaces to facilitate the process.			

Working Drawings	Module Code	Credits	Hours /Week	
	AT 2040	2.0	Lectures	0.5
			Lab/Studios	3.0
Compulsory (GPA)	Learning Objectives			
	To acquire tools and skills necessary for the production of competent Construction and Working Drawings.			
	Outline Syllabus			
	- Construction / Working Drawings - Introduction to presentation of architectural information - Coordination with allied consultants (reading and applying to architectural drawings) - Checklists - Assignment - Working drawings for a selected building - Approval drawings - Introduction to types, Planning regulations, building regulations, procedures (Guest Lectures & Group work)			

Experiencing Architecture	Module Code	Credits	Hours /Week	
	AD 2020	1.0	Lectures	
			Lab/Studios 2.0	
Compulsory (GPA)	Learning Objectives			
	• The aim is to give exposure to different architectural spaces of unique characters and spatial qualities, concluded by discussions in Architectural Theories and practices			
	Outline Syllabus			
	• Site visits to selected places. (Maintain sketchbook on building, special details, spaces, etc.) • Visits to hotels, houses, streets, urban spaces, natural landscapes, and places of historical value. • Visit art and sculpture exhibitions. • Film & Drama critique			

SYLLABUS- LEVEL 03

LEVEL 03 - SEMESTER I

Professional Studies – I	Module Code	Credits	Hours /Week	
	AP 3010	1.5	Lectures	1.5
Compulsory (GPA)			Lab/Studios	

Learning Objectives
• To introduce students to the architectural profession, and the rights and responsibilities of the professional architect. • To introduce students to issues of management in the practice of architecture.

Outline Syllabus

• History and the Structure of the Profession
(History of the Architectural Profession in Sri Lanka. The Structure of the profession today, the role of other professional institutes, the incorporation Act and the Architects Registration Act, the profession in other countries)
• Professional Rights and Responsibilities
(Code of Practice, Registration, Conditions of Engagement, Fee Scales, Architect – Client Relationships)
• The Building Industry
(The architect's role in the building industry, Architects in Public Service, the role of the Project Manager).
• Management
   ○ Principles of Management
   ○ Programming and Organization
   ○ (Methods) of Programming, Bar Charts, Networks)
   ○ Office Management
   ○ (Organization of a Professional Office, Documentation, Communication, and Follow-through)
   ○ RIBA Plan of Work

Structures III	Module Code	Credits	Hours /Week	
	AT 3010	1.5	Lectures	1.5
Compulsory (GPA)			Lab/Studios	

Learning Objectives
• Provides the skills necessary to select the appropriate structural system and structural material with a greater degree of freedom. It will enable students to combine different structural systems, modify the basic structural systems, and develop new structural systems. • Enables students to acquire the ability to determine approximate sizes of structural members.

Outline Syllabus
• Complex Structural Layouts: Ultimate and Serviceability Limit State; Stability, Robustness; Special Considerations such as Key Elements; Structural Frameworks. • Rules of thumb – to decide approximate sizes of members: Reinforced Concrete- Slabs, Beams Columns, etc.; Steel – Trusses, Girders, Decks, Beams, Columns; Timber – Trusses, Decks, Beams, Columns; Pre-stressed

Concrete – Slabs, Beams, Columns, etc.; Cable Structures; Retaining walls.
- Tall Buildings: Rigid Frames, Shear wall Structures; Wall-frame Structures; Introduction to other types of structural systems; Arrangement of Services in Tall Buildings.

Building Materials	Module Code	Credits	Hours /Week	
	AT 3020	1.5	Lectures 1.5 Lab/Studios	
Compulsory (GPA)	Learning Objectives			
	• Study of properties and applications of specialized building materials, their impact on the indoor environment, details, and cost considerations.			
	Outline Syllabus			

	• Cement & Concrete-
	   a) Types
	   b) Manufacture & properties of Cement
	   c) Properties
	   d) Aggregates
	   e) Mixes
	   f) Types of Mixing
	   g) Strengths
	   h) Testing of Concrete
	 • Timber
	   a) Properties
	   b) Types
	   c) Seasoning
	   d) Defects
	   e) Attacks
	   f) Preservation of timber
	 • Bricks
	   a) Types
	   b) Sizes,
	   c) Manufacture of Bricks
	 • Metals
	   a) Types
	   b) Uses properties
	   c) Fixing and jointing
	   d) Methods and finishes of Iron & Steel and Aluminum.
	 • Brass, Copper, and other Metals
	   a) Types
	   b) Properties
	   c) Jointing and fixing.
	   d) Finishes.
	 • Glass, Plastics and Pvc Products, Paints and Primers
	   a) Types
	   b) Properties and uses.			

Essay – Architectural Design and Social Studies	Module Code	Credits	Hours /Week	
	AD 3030	3.5	Lectures	1.0
			Lab/Studios	5.0
Compulsory (GPA)	Learning Objectives			
	After the completion of the module the students will be able to, • Develop a methodology to do a detailed descriptive study on a selected building/ building type/ architectural issue. • Carry out a basic analytical architectural study. • Present the findings of above in the form of an academic writing.			
	Outline Syllabus			

	• Selection of an appropriate subject for the study and definition of the scope considering the limitations.
	 • Collection of information on the subject through various means. (Existing written information, observations, interviews, field studies, etc.)
	 • Formulate a methodology to study the subject.
	 • Analyze the available information and make conclusions and opinions
	 • During the process of writing the essay, the students are expected to produce the following.
	     a) Topic Proposal
	     b) Chapter Breakdown with headings for chapters and subdivisions.
	     c) Draft of the essay with a properly arranged list of references
	     d) Final Essay (4000 to 6000 words) inbound form as specified by the department.			

Advanced Computer Applications	Module Code	Credits	Hours /Week	
	AD 3010	1.0	Lectures	
			Lab/Studios	2.0
Compulsory (GPA)	Learning Objectives			
	• Acquire skills in advanced computer applications related to architectural design presentations and professional communication.			
	Outline Syllabus			
	• Photoshop • 3D Max • Introduction to 3D animation			

Principles of Tropical Design	Module Code	Credits	Hours /Week	
	AE 3010	3.5	Lectures	1.0
			Lab/Studios	5.0
Compulsory (GPA)	Learning Objectives			
	- The aim of this module is to equip students with simple tools for energy-efficient as well as passive/low-energy design appropriate for the tropical context. - The learning outcome is to equip students with tools and strategies for the reduction of solar gain, enhancement of ventilative, evaporative, and conductive cooling.			
	Outline Syllabus			
	- Ventilation in tropical buildings<ol type="i"> - Types of wind movement - Wind movement calculations - Applications of heat gain principles<ol type="i"> - Roof design for Colombo - Passive design strategies for Sri Lanka<ol type="i"> - Radiant cooling; - Ventilative cooling; - Evaporative cooling; - Conductive cooling . - Thermal comfort in urban spaces<ol type="i"> - Factors governing outdoor comfort; - Shading in urban areas; - Simple tools for climate-sensitive design<ol type="i"> - Mahoney's Table - Bio-climatic Analysis			

Building Services, II	Module Code	Credits	Hours /Week	
	AT 3030	1.5	Lectures	1.5
			Lab/Studios	
Compulsory (GPA)	Learning Objectives			
	- Study of Air conditioning, Heating, and Firefighting systems of services. - Application of Air conditioning, Heating, and Firefighting systems in buildings.			
	Outline Syllabus			
	- HEATING, VENTILATING, AND AIR-CONDITIONING – Ventilating systems. Introduction to air conditioning, Psychrometric chart. Air conditioning principles, design strategies, and systems. Layouts and calculations. Heating, space heating. - FIRE SAFETY IN BUILDINGS - Growth of fire in buildings. Fire load, fire resistance. Impact on materials. Fire regulations: means of escape, access for firefighting. Fire detection and firefighting systems.			

Major Design Project (MDP)	Module Code	Credits	Hours /Week	
	AD 3020	8.0	Lectures	2.0
			Lab/Studios	12.0
Compulsory (GPA)	Learning Objectives			
	- Acquire and display Comprehensive Functional and Technical competence in Architectural Design. - Investigation of the broad scope of issues in architectural design and respond to selected with clear design intentions.			
	Outline Syllabus			
	The students are expected to carry out an architectural design project with significant functional and contextual investigations. The background studies and development of a brief will also be tested as part of the exercise.			

LEVEL 03 - SEMESTER II

In-Plant Training I- (Design and Technology)	Module Code	Credits	Hours /Week	
	AD 3040	6.0	Lectures	1.5
			Lab/Studios	20
Compulsory (GPA)	Learning Objectives			
	After the completion of the module, the students will be able to, • Understand the process of transformation of functional requirements and aesthetic responses into an architectural design. • Rationalize design decisions with respect to technical considerations • Comprehend the manner in which an "Architectural Design" is translated to "Working documents" and to the "Process of Building at the site"			
	Outline Syllabus			
	• Preparation of a comprehensive "Design and Technology Report". The report would be based on case studies of selected building construction projects, in which the student has been involved/ experienced during the in-plant training period. • The preparation of a comprehensive set of working drawings demonstrates the manner in which schematic drawings are transferred to working documents.			

In-Plant Training II- (Management)	Module Code	Credits	Hours /Week	
	AP 3030	4.0	Lectures	9.0
			Lab/Studios	480
Compulsory (GPA)	Learning Objectives			
	• To gain practical exposure and knowledge of the theoretical understanding of "Professional Practice", in terms of gaining an understanding of the principles and factors related to running a design practice and how architects organize, administer and manage an architectural project. • To improve the report writing skills of the student			
	Outline Syllabus			

	• Preparation of a concise report outlining the skills, understanding, and experience obtained during the training period. The project/projects selected for discussion should be from the office in which the trainee/student is working.
	• The report should demonstrate the understanding of "Professional Practice" which covers the areas of
	    a) Office Management
	    b) Project Management
	    c) Construction Management
	
	Visit an Architecturally complex building of the student's choice and review the following aspects. Use the following areas as sections of the review			

SYLLABUS- LEVEL 04

LEVEL 04- SEMESTER I

Law	Module Code	Credits	Hours /Week	
	AP 4010	1.5	Lectures	1.5
			Lab/Studios	
Compulsory (GPA)	Learning Objectives			
	• To explain to students, with reasons, why students should understand the law, legal concepts, and the court system in Sri Lanka.			
	• To explain how the law came to be categorized into different branches or main areas of study and what constitutes each of the main Branches of Law. To create an awareness of the legal systems applicable in the country.			
	• To outline and explain the main provisions of the legislation relating to the Planning Law.			
	• To introduce students to legislation affecting building & property.			
	Outline Syllabus			

	• Legal Method
	   a) Definition of Law
	   b) Sources of Law. (Legislation, Customs, Judge Made Law, International Law, etc.)
	   c) Divisions of Law. (Public Law, Private Law, Civil Law, Criminal Law, Business Law, Administrative Law, Contract Law, Law of Delict, etc.)
	• The legal Systems of Sri Lanka
	   a) Roman-Dutch Law (Common Law)
	   b) English Law
	   c) Kandyan Law
	   d) Thesawalamei Law
	   e) Muslim Law
	• The Courts of Law (Judiciary System of Sri Lanka)
	   a) Court system in Sri Lanka
	   b) Powers & functions of Supreme Court, Court of Appeal, High court, District courts, Magistrate courts & Labor Tribunals
	• The Law of Property
	   a) Modes of the acquisition of property. (Occupation, Accession, Delivery, etc.)
	   b) Owners' rights and obligations.
	   c) Servitudes (Urban & rural etc.) Urban – light, air, support, drains, sewer, etc.
	   d) Registration of Documents (Deeds, Plans, Condominium plans)
	   e) Legislation related to lands, buildings & properties
	   f) Condominium property
	   g) Powers & Functions of Condominium Management Authority.
	• Law of obligations
	   a) Introduction to the Contract Law
	   b) Introduction to the Law of Delict (Tort)
	   c) Professional negligence
	   d) Duty of Care
	• The Planning Law			

Introduction to Green Architecture	Module Code	Credits	Hours /Week	
	AE 4010	1.5	Lectures 1.5 Lab/Studios	

Compulsory (GPA)	Learning Objectives
	• **"**Global warming is a critical environmental threat that we face today." The use of building design for optimum use of energy should be considered as the forefront of priorities for all professionals involved in the construction industry. Ecological (or green) approach to design involves the manipulation of building design, materials, and construction methods to minimize negative impacts on the natural environment, over the life cycle of the designed system from source to sink. • The subject module aims to investigate the fundamental principles underpinning green (ecological) approaches to design and International Green Certifications systems.
	Outline Syllabus
	• Sustainability Issues • International milestones of environmental agreements • Agenda 21 – "Rio-Declaration" • Environmental policy of Royal Institute of British Architects • Environmental policy of Royal Australian Institute of Architects • Green ecological approach – Symbolic form of a green approach to design. • Bio-climatic skyscraper. • Principles of Green Architecture. • International Green Certifications - Green Globe 21, Green mark, and LEED (Leadership in Environment and Energy Design).

Urban Design and Environment	Module Code	Credits	Hours /Week	
	AE 4020	1.5	Lectures 1.5 Lab/Studios	

Compulsory (GPA)	Learning Objectives
	• To understand the processes which generate urban form. • To create an awareness of the environmental consequences of urbanization. • To conceptualize design opportunities at an urban scale and to appreciate the possibilities of urban design in • mitigating the environmental effects of urbanization. To promote a humane urban form that positively contributes to the urban "quality-of-life" and resolve urban issues through design.
	Outline Syllabus

- Introduction to Urban architecture/design
- Introduction to theories of urban design and urban architecture
  a) Macro / micro level
  b) Urban analysis
  c) Elements and principles of urban architecture
- History of urban form
  a) Western world
  b) Urban form in Sri Lanka (with special reference to Colombo)
- Urbanization & environment
  a) Urban effects on air, water, and climate
- Urban design and environment
  a) Environmental control through urban design
  b) Introduction to Urban form controls
  c) Urban transportation planning
- Assignment

Materials-Usage and Technology	Module Code	Credits	Hours /Week
	AT 4010	1.5	Lectures 1.5 Lab/Studios

Compulsory (GPA)

Learning Objectives

- To understand the nature of Materials in terms of their structural behavior properties, and application to buildings systems.
- Understanding of Architectural Design with regard to Structural Types, Systems, with the use of technology concepts.
- Application of structural, servicing, and management

Outline Syllabus

- Introduction to Materials -usage, and technology - aims, objectives learning outcome, and resources
  1.0 Classifications, categorization and properties, and usage
  a) Historical perspective of the application of materials
  2.0 Nature of Buildings
  b) functional requirements, organizational process
  c) Building as Technology
  3.0 Structural Concepts and Use of Materials
- Skeleton structure
  a) Solid structure
  b) surface structure
  c) forms of construction
- 4.0 Production types of buildings & Application of Materials
- Methods of Buildings
- Industrialization of buildings
  a) Building elements
- Production of Components
  a) Assembly
  b) Building Systems
- 6.0 Green Products

Social Implications of Architecture	Module Code	Credits	Hours /Week	
	AS 4010	1.5	Lectures 1.5 Lab/Studios	

Compulsory (GPA)

Learning Objectives
• To give an insight into the theoretical background of Social Implications of Architecture.   • To make the students understand the impact of society on architectural forms and vice versa.   • To introduce research methods that would be used to examine architectural space and its social surrounding.   • To enhance the possibility of making socially-fit architecture.

Outline Syllabus
• Most of us live in Urban spaces and experience social problems in cities. We always wonder how the spaces have emerged and evolved with society. If the urban space is a site of meanings, we as architects shall be aware of these meanings, how they are represented in the space and why they shall be interpreted and continued.   • The program will mostly deal with Urban Sociology: Urban space and urban social structure. It covers social theories that are relevant to the city and its living patterns, making references to the fact that the society and city evolve together. It will introduce texts that are relevant to the subject, and finally, attempts are made to see the actual situation in the suburbs of Colombo, especially the new residential districts. The program will teach the Socio-Spatial Approach to the City and research methods practices in field research.

Design Theory	Module Code	Credits	Hours /Week	
	AD 4010	1.5	Lectures 1.5 Lab/Studios	

Compulsory (GPA)

Learning Objectives
• Develop sensitive and critical approaches to identify environmental qualities and environmental psychological aspects which will help to develop and enhance the physical environment thus Architecture. Students are actively engaged in learning processes through research, assignments, and experiencing the physical environment.

Outline Syllabus
• Environmental quality   • Generators of environmental quality   • Architecture as the physical setting   • Space and Place in Architecture   • Human behavior and environmental psychology   • Urban space and spatial quality   • Natural space and spatial quality   • Research methods & Assignments Other Arts

LEVEL 04 - SEMESTER II

Professional Studies II	Module Code	Credits	Hours /Week	
	AP 4020	2.0	Lectures 2.0 Lab/Studios	
Compulsory (GPA)	Learning Objectives			
	• To gather a deeper understanding of running the profession.			
	Outline Syllabus			
	• The Architects office and its organization, its leaders and key people, data storage and retrieval, feedback systems, correspondence, office, resource and time management, planning, organizing, actuating and controlling, people, material, money, machinery and information, employment regulations and staff relationships, budgeting, accounting, and taxation.			

Construction Management	Module Code	Credits	Hours /Week	
	AP 4040	2.0	Lectures 2.0 Lab/Studios	
Elective (GPA)	Learning Objectives			
	• To gather a fundamental understanding of construction management.			
	Outline Syllabus			
	• The construction team, priorities, and objectives. • The risk factors. • The team, structures leaders and people. • Construction on-site planning, bars, charts, networks, computers. • Managing the construction and managers. • Managing the cost, labor, machinery, and material. • The Cash Flow. • Solving construction problems.			

Project Management	Module Code	Credits	Hours /Week	
	AP 4030	2.0	Lectures 2.0 Lab/Studios	

Compulsory (GPA)	Learning Objectives
	- To gather a fundamental understanding of project management. - To gather detailed knowledge on the pre-construction phase of building projects.
	Outline Syllabus
	- Part I – General Project Management a) The definition of a project, boundaries, life cycle, priorities and objectives, The risk factors. b) The project organization, structures leaders and people. c) Projects and planning, bars, charts, networks, computers. d) Managing the project and managers and cost. e) Monitoring and controlling your project and Solving project problems. - Part II – Building Project Management a) Briefing Procedure. b) Teamwork and use of consultants. c) Tendering. d) Contracts. e) Subcontractors and suppliers. f) Handing Over Construction Site to Contractor and Supervision of Works. g) Field Orders, Change Orders, Payment Certificates, and Warranties. h) Practical Completion and subsequent Responsibilities. i) Quality and Cost Controlling (Pre-Bidding Stage and during Construction Stage).

Advanced Climate-Sensitive Design	Module Code	Credits	Hours /Week	
	AE 4030	2.0	Lectures 2.0 Lab/Studios 2.0	

Elective (GPA)	Learning Objectives
	The module aims to explore design tools and methods for climate-sensitive design in terms of problem identification, comparative simulation, and analysis.
	Outline Syllabus
	- Tropical Climate - Types and Factors - Comfort - Factors & Indices - Climate Data -- Summarizing data and building climate data files - Building Materials & Thermal Properties

* Urban Climatology
  a) Role of cities in modifying the weather and climate at various scales
  b) How urban-scale weather/climate information may be usefully employed at various scales of urban management
  c) UHI studies/simulation and mitigation strategies
  d) Local Climate Zones (LCZ)
* Computer Simulation - Basic Theory & Tools
* Project
  a) Assessment of outdoor comfort in Colombo: An empirical study

Low Energy Architecture	Module Code	Credits	Hours /Week
	AE 4050	2.0	Lectures 2.0 Lab/Studios

Elective (GPA)

Learning Objectives
* The module, "Low-energy Architecture", contributes to the development of student attributes in climatic and environmental sensitivity of architectural design aimed at optimizing demand-side efficiency of buildings. The subject is structured to provide the required knowledge, learning skills, and attitudes in an intellectual process that can allow developing more low-energy design futures.

Outline Syllabus

* Global warming and energy use in buildings.
   a) Global warming as an environmental problem.
   b) Predicted environmental damages.
   c) Policies to minimize environmental damages.
 * Demand-side efficiency of buildings.
   a) Understanding climatic elements of a location.
   b) Indoor thermal comfort conditions.
   c) Design strategies for demand-side efficiency.
   d) Concept and science of passive cooling strategies.
 * Manipulation of design strategies for demand-side efficiency.
   a) Building microclimate and master planning.
   b) Building plan form and sectional form.
   c) Building fabric.
   d) Mechanical plant and machinery.

Introduction to Landscape Design & Planning	Module Code	Credits	Hours /Week	
	AE 4060	2.0	Lectures 2.0 Lab/Studios	
Elective (GPA)	Learning Objectives			
	• To introduce concepts and theories related to Landscape Ecology & Technology. • Provide the skills and knowledge necessary to site selection planning and design environmentally sensitive situation. • To illustrate the importance of the natural environment in the process of Architectural design.			
	Outline Syllabus			
	• Landscape form and function in planning essential processes of landscape / Nature of Landscape change/concept of conditional stability ecological dimensions of the site. • The theory of site evaluation and selection/site inventory and physical analysis / environmental, landscape master plan / general guidelines for echo-sensitive designs. Description and classification of vegetation climatic zones / trends in vegetation change / integrating ecology and architecture / urban ecology / sustainability of landscape.			

Introduction to Architectural Conservation	Module Code	Credits	Hours /Week	
	AS 4030	2.0	Lectures 2.0 Lab/Studios	
Elective (GPA)	Learning Objectives			
	• Acquire skills to handle new architectural design projects having a certain degree of Conservation concerns. • Understand the theories and philosophy involved in architectural conservation. • Acquire knowledge on technology associated with the architectural conservation.			
	Outline Syllabus			
	• Architectural conservation as an integral part of heritage management. • Development of architectural conservation in Sri Lanka • Consolidation. Restoration, Rehabilitation, reconstruction in architectural conservation. • Urban conservation in global and local contexts. • Materials and technology used in conservation. • Analysis of contemporary architectural conservation design projects.			

Advanced Lighting Design	Module Code	Credits	Hours /Week	
	AE 4070	2.0	Lectures 2.0 /18hrs	
			Lab/Studios 2.0 /12hrs	
Elective (GPA)	Learning Objectives			

- Use light as a major component in architectural and spatial design.
- Design systems maximizing the use of natural light for higher energy efficiency.
- Use terms and basic definitions to perform lighting calculations and related designs
  Make informed decisions relating to light and its effect on human comfort and health.

Outline Syllabus

- Overview, Terms & Concepts.
- Lighting and Spatial Design.
- Daylight Integration
- The Lighting Design Process.
- Design Project One – Daylight Integration.
- Light Sources & Equipment.
- Lighting Energy and Controls.
- Design Project Two – Interior Lighting Design.

Building Environmental Assessment	Module Code	Credits	Hours /Week	
	AE 4080	2.0	Lectures 1.5	
			Lab/Studios 1.0	
Elective (GPA)	Learning Outcomes			

On the successful completion of the module students will be able to:
- Describe the principles and current approaches in green building design
- Explain different building environmental assessment (BEA) systems and their significance
- Apply BEA systems in building projects
- Identify sustainable approaches in the design of built environments.

Outline Syllabus

- Impact of building construction on the environment.
- Green building movements and global sustainability initiatives.
- Principles of green building, community, and neighborhood development.
- BEA systems.
- Appraisal of a BEA system / BEA certified project.
- Future of BEA systems: Neighborhood design and sustainability assessment.

Advanced Building Services	Module Code	Credits	Hours /Week	
	AT 4040	2.0	Lectures	
			Lab/Studios	
Elective (GPA)	**Learning Objectives**			
	• To understand the considerations and concept of advanced building services in terms of integration, Identify area design supportive methodology/ energy concerns and future directions. Deep understanding of international advance services, building ratings and regularizing and code of practice specialized systems of services.			
	Outline Syllabus			
	• Introduction of the nature of advanced service buildings and their supportiveness to the design. • Building classification, standardizing and international and local codes and specifications. • Types of HVAC for various types of projects. • Power supply and distribution. • Alternative and renewable energy services. • Security and safety installations. • Fire detection and protection. • Communication lines/telephones and IT network. • Circulation in Multistory building. • Swimming pool – Operation and Maintenance.			

Building Facilities Management	Module Code	Credits	Hours /Week	
	AT 4050	2.0	Lectures 2.0	
			Lab/Studios	
Elective (GPA)	**Learning Objectives**			
	• To understand the Facilities Management concept and principles in relation to designing and managing facilities.			
	Outline Syllabus			

	• Introduction to Facilities Management
	    a) Definition of facilities management
	    b) Role of facilities management
	    c) Facilities management skills
	 • FM in Commercial Buildings
	    a) Vision, mission, strategies, and future challenges of facilities management
	    b) Whole building approach
	    c) Future challenges of commercial buildings
	 • Facilities Performance Evaluation
	    a) Definition of FPE
	    b) Different categories of FPE
	    c) Different phases of FPE
	    d) Post Occupancy Evaluation
	
	 • Intelligent Building Process
	    a) Building Management System			

	b)	Intelligent Fire Alarm System	
	c)	System integration and automation	
	• Quality Management		
	a)	Value Management	

Construction Design	Module Code	Credits	Hours /Week
	AT 4060	2.0	Lectures 1.5 Lab/Studios 1.0

Elective (GPA)

Learning O

- Understand buildings as the result of social and industrial processes.
- Evaluate the implicit theoretical and philosophical assumptions in design practice with a view of setting out means of understanding design issues informed by construction processes.
- Appreciate both the relationship and the distance between building conception and building implementation.
- Develop an interpretative framework for the design and construction of small-scale architectural work. Design for socio-spatial needs of the community through direct interventions with on-site construction activities.

Outline Syllabus

- Building as a social process, components that constitute building process, fragmentation of design and construction, and the notion of 'construction design'.
- Critical theories on 'construction design': 'robust technology', 'socially constructed knowledge', 'design tolerance', 'technology transfer', 'construction labor', 'system engineering', and 'political economy of design'.
- Architecture as a cultural and industrial intervention underpinned by a 'social craft', 'a material practice', and the 'human factor'.
- Building conception and building implementation: the distance and the relationship.
- Works of the foremost proponents of construction theory as relevant to architectural production.

Society and Human Settlements	Module Code	Credits	Hours /Week	
	AS 4040	2.0	Lectures 2.0 Lab/Studios	

Learning Objectives
• To acquire knowledge with reference to social groups/behavior and space.
• To acquire theoretical knowledge on Human Settlements and their designs.
• To Study different types of Human Settlements, their history, existence, problems & issues: for example, horizontal vs. vertical, gated communities, apartments, condominiums, etc
• Develop skills to analyse a human settlement and identify research issues and questions for future research.
• To gain skills to observe and investigate a selected human settlement (case study - either a Low Income or a High-Income Settlement) in relation to its social issues connected to the built environment and the strategies adopted to respond to them in architectural design
• Gain the skills to discuss and formulate a research problem.
• To acquire knowledge on the research process and scientific research method.
• To acquire skills on how to carry out a literature search and critically review literature.
• To acquire knowledge on types of research methods and data collection tools.
• To acquire skills to plan and communicate a research outline.

Outline Syllabus
• Theoretical knowledge on personal space/ social space/ public and private space/family unit/ evolution and concept of home and housing.
• Types of settlements - International and Local community housing/ apartment housing with reference to user behavior/ aspirations
• Analysis of selected designed/evolved Human Settlements with reference to its Sociological and Built Environment considerations
• Research Process, Methods, and Outline.
• Data collection tools/techniques such as observations, questionnaires, interviews, Mapping.

Elective (GPA)

Landscape and Place	Module Code	Credits	Hours /Week	
	AS 4050	2.0	Lectures 1.5	
			Lab/Studios 1.0	
Elective (GPA)	Learning Outcomes			
	On the successful completion of the module students will be able to: • Interpret people, place, architecture, settlements, and cities within the context of landscape – physical features, topography, and geographical formation. • Describe the distinctive character of the Sri Lankan landscape and how traditional architecture has responded to the Sri Lankan landscape. • Describe design strategies to comprehend the uniqueness of Sri Lankan landscape – physical features, physical geography, and topography. Appraise conservation and preservation of Sri Lankan landscape in contemporary developments.			
	Outline Syllabus			
	• Place, Sense of Place, Natural place, Cultural place • Emerging cities and settlements within the context of the landscape. • Landscape research – landscape as a discourse, landscape as a text, performative concepts. • Sri Lankan landscape and traditional architecture – cities, and places. • Study traditional places, analyze inter-relationships of Natural place and cultural place, Propose design strategies for contemporary developments.			

Orientation Design Project	Module Code	Credits	Hours /Week	
	AD 4020	4.0	Lectures	1.0
			Lab/Studios	6.0

	Learning Objectives
Compulsory (GPA)	• The objective of this project is to subtlety orient the student back to a structured design and academic program after the practical training period in architectural offices and intends to be an "ice breaker". The project introduces the student to comprehend aspects of urban response, social, technological, and environmental issues at a micro-scale. This project will enable the students to explore their senses in-depth, underpinning creativity, inspiration, intellect, and intuition. It is a simple, small-scale project solely focusing on a Micro Architectural Problem to be resolved in depth. The project, site, and the brief will be fixed and specified by the year persons allowing the student to solely focus on the Creative design process molded with his/her personal bias or philosophy.

Outline Syllabus

• The project comprises of Task 1 – Contextual analysis and Precedent studies (Individual work)- 2 weeks
   a) To read and analyze the physical/social context/climatic factors.
   b) To gather information on the specified function, building typology, Precedent studies, anthropometrics and ergonomics data, regulations, etc. and analyze.
• Task 2 – Building design (Individual work)- 2 weeks
   a) To design a building to fulfil the following objectives
   b) Appropriate selection of functions
   c) Appropriate use of materials and technology
   d) Appropriate climatic response in terms of the building and the neighborhood
   e) Appropriate building process.
• Submission Requirements
   a) Modified Brief (including floor areas)
   b) Contextual studies (i.e., either analytical diagrams or sketches of your sources of inspiration)
   c) Concept formulation and image
   d) Contextual map: a map of the plot and its context, indicating activity and massing….
   e) Plans sections and elevations of the (Plans should indicate floor textures of all built & unbuilt spaces)
   f) Three-dimensional views of the building (perspectives/axonometric)
   g) Sketches showing the nature of the activity and the character of the place (minimum 3)
   h) Model of building.
• All drawings in A1 format are mounted on stiff board and presented in A1 size folios. Scales of drawings to be decided in the studio. Graphics to be of high quality, and lettering as specified

Urban Design Project	Module Code	Credits	Hours /Week	
	AD 4030	4.0	Lectures	1.0
			Lab/Studios	6.0

Compulsory (GPA)

Learning Objectives

- This assignment is designed to be an introduction to methods of viewing redevelopment of the site and the urban area as a social, physical, psychological, and microclimatic environment. It will be concerned with analysing and evaluating strengths, weaknesses, opportunities, and threats of urban environments and responding to the social needs of a selected user category.
- This assignment will provide the students with an opportunity to gain experience in solving complex architectural problems through a process starting with conceptualization for developing spatial and physical forms for selected categories of the community through to detailed design resolution
- The assignment will further build students' skills fundamental to formulating preliminary urban and site design efforts connecting to the surroundings: design of public spaces, spatial progression, and incorporating design strategies to facilitate the behavior and lifestyle of selected user categories.

Outline Syllabus

- This assignment will provide the students with an opportunity to gain experience in solving complex architectural problems through a process starting with conceptualization for developing spatial forms for selected categories of the community through to detailed design resolution
- The assignment will further build students' skills fundamental to formulating preliminary urban and site design efforts: design of public spaces, spatial progression, and incorporating design strategies to facilitate the behavior and lifestyle of people.
- This design project, therefore, comprises two components:
- Analyzing and understanding issues pertaining to socio-context generated architecture, and
- Developing a potential micro context- A scheme- responding to the socio-contextual issues concerned.
  The primary objectives of this design project are:
    a) To read and analyses the urban and regional context/sector,
    b) To read and analyses the society needs, lifestyle, patterns, social aspirations, community development
    c) To read and understand the planning, building & other regulations pertaining to residential and community development projects.
    d) To understand the site planning, urban design, image building of a social responsive design project.
  Objectives to be achieved at the Micro Level of the building design
    e) Appropriate function of the building
    f) Appropriate Use of Materials & Technology
- Appropriate Climatic response of the building

Demonstration Design Project	Module Code	Credits	Hours /Week	
	AD 4040	5.0	Lectures 1.0 Lab/Studios 8.0	

Compulsory (GPA)	Learning Objectives
	• This assignment intends to provoke the student to identify a range of architectural problems and potential areas for redevelopment in identified urban environments. It is structured to provide an exploration of architectural projects that extend the objectives of an identified urban proposal/typology. • The Design Project will further increase the understanding of innovative technological skills in detailing whilst integrating a set of environmentally sound design strategies in the building geometry and enclosure to promote environmentally sustainable design futures.

	Outline Syllabus
	• The Demonstration Design Project is the most comprehensive design project within the 4th level. It requires the understanding to address design challenges at both macro and micro levels where each requires the development of different skills and maturity to bring out a holistic design. It is structured to provide an exploration of architectural projects that extend the objectives of an identified urban proposal/typology. The project requires a systematic approach that analyses and evaluates the context (primarily the physical, social, and climatic) to have a proper justification in the design process. The DDP is equivalent to a "Mini CDP" and grooms the student to handle the Comprehensive design project in level 5. • The tasks include the following. • Analysis of Context- background Research. • Proposal of Urban vision. • Interpretation and development of the brief for the project. • Conceptualizing the project. • Translation of the concept to a built form – handing the challenges involved in manipulation and orchestration of space, mastery of composition and language planning of circulation/Parking, landscaping, etc. • Detailing of the design includes detailing of the following a) Comprehension of a social need. b) Appropriate use of technology. c) Appropriate climatic response in terms of the building and the neighborhood. • Appropriate building process.

SYLLABUS- LEVEL 05

LEVEL 05 - SEMESTER I

Office Management	Module Code	Credits	Hours /Week	
	AP 5010	2.0	Lectures 2.0 Lab/Studios	
Compulsory (GPA)	Learning Objectives			
	- To have knowledge of management related to the practice of architecture during the pre-contract period of a building project. - To be familiar with the management aspects of the post-contract period of a building project.			
	Outline Syllabus			
	- Feasibility studies of building projects - Economic feasibility - Environmental laws and Regulations applicable for building projects - Preparation of detailed Briefs for building projects - Costing of building projects at different stages pre-contract phase - RIBA Plan of Work and SLIA conditions of Engagement - Preparation of a short report on Office Management on a given topic and will be tested on their maturity on aspects of practice related to varied types of contracts.			

LEVEL 05 - SEMESTER II

Dissertation	Module Code	Credits	Hours /Week	
	AD 5020	10.0	Lectures 2.0 Lab/Studios 16.0	
Compulsory (GPA)	Learning Objectives			
	- Acquire and display the skills of investigating an Architecturally significant problem and communicating the results of investigations through logical and scientific writing. - Acquire and display the methods of investigation, case study analysis, and precedent study analysis to support the Comprehensive Design Project.			
	Outline Syllabus			
	Students are expected to observe an architecturally significant issue that may be investigated so that their skills of analysis would be enhanced thus strengthening their design process. They are encouraged to get involved with the research carried out by the Senior Staff members to learn these skills. The dissertation is also promoted as an opportunity to learn more of the background research and interpretation of areas in which they would focus on the Comprehensive Design Project.			

Comprehensive Design Project	Module Code	Credits	Hours /Week	
	AD 5010	18.0	Lectures 3.0	
			Lab/Studios 30.0	

Learning Objectives

Compulsory (GPA)

- Acquire and display the level of a master in maturity in; design, functionality, comprehensive workability, buildability, and sensitivity in terms of climate, culture, context, and technical competence in the building envelope and structure together with building management skills.
- Mastering the knowledge of architecture, deeper issues, philosophies, and abilities in architecture to demonstrate a deep engagement in a particular area of expertise or inquiry is a mandatory skill.

Outline Syllabus

- Students are expected to carry out an architectural design project and must choose a subject that is not too large and complex. The nature of the project should be such that it should have a balance of complexity and simplicity so that the totality of it is comprehensively dealt with. When a project involves a group of related buildings or a large building with complex functions, it is necessary that a part only be selected for detailed study.
- It is important that the wider or specific subject of study should be of considerable interest for the student to sustain the lengths of the CDP program and that there should be a significant architectural problem to be solved at hand complicated with different categories of user groups.
- The scheme should ideally be part of a complex urban problem, complicated with vehicular, pedestrian, and other users, etc. and should display ample complexity of issues, involving physical, social, and technical challenges to be handled by a Postgraduate Student of Architecture. It should involve the macro and micro levels of planning along with some degree of urban design, landscaping, and conservation issues.
- The background research and interpretation of the brief, the realization of concepts and objectives, higher objectives, mastery of language & composition, manipulation of space, and orchestration will also be tested as of the exercise.
- The scheme should in the end display correct and well-suited technology, adaptation to the local climate and the habitat (context), culture, management skills in addition to being well mature in its Architecture.

Research & Collaborations

One of the most important functions of the Department of Architecture is to provide high-quality training in research, and we offer opportunities for advanced studies in many different areas of the built environment. The research culture at the Department of Architecture is one of the strongest in the University of Moratuwa, which has a rich history in pioneering research and technological development in the region and remains at the forefront of innovation.

Our research programs are designed to allow students to draw together the theory and practical skills gained in previous undergraduate studies and develop an in-depth knowledge of their discipline, as well as to acquire independent research skills. Strongly focusing on an inter-disciplinary approach to research, our candidates reside within, as well as across, discipline areas of architecture, urban planning, conservation, interior design, industrial design, and landscape architecture. The cross-disciplinary experience offered in the Department of Architecture will not only distinguish our students as leaders of the industry and academia but also impart with them an ability to actively contribute to the future development of communities and built environments across the region.

Some areas of our research focus are:

- Architectural Conservation and Heritage Management
- Architectural Design and Practice
- Architectural Education
- History of Sri Lankan Architecture
- Housing and Human Settlements
- Sustainable Architecture
- Urban Climatology
- Vernacular Architecture
- Urban Planning
- Colour associated emotional and behavioural responses

The Department offers two types of higher degrees:
- Master of Philosophy (MPhil)
- Doctor of Philosophy (PhD)

In addition, the Masters courses in Architectural Conservation, Urban Design, and Interior Design provide the opportunity to carry out in-depth postgraduate research.

1. UOM Urban Lab - The Centre for Cities

"UOM Urban Lab - The Centre for Cities" is an interdisciplinary research arm of the University of Moratuwa. It draws together the research and outreach energies of scholars of architecture, urban design, planning, conservation, environmental management, transportation, construction, facilities management, housing, landscape, real estate, land use surveying, urban economics, statistical modeling, urban studies, Information Technology, engineering, and related areas. "UOM Urban Lab" is anchored by the researchers in the University of Moratuwa and provides a focus for urban researchers across the university and with the international collaborative university partners.

"International Conference on Cities, People & Places" is one of the most significant conferences organized within the department via UOM Urban Lab among other events and workshops. ICCPP is a scientific conference series held on the theme of Cities, Urban Development, Planning, and Design. The conference provides a great platform for undergraduates to get exposure to research, publications, and scholarly work.

Visit: https://uom.lk/cfc and
https://uom.lk/cfc/conference-iccpp for more information.

2. Faculty of Architecture Research Unit (FARU)

Faculty of Architecture Research Unit (FARU) of the University of Moratuwa aims at promoting a distinctive research culture across all its disciplines i.e., architecture, planning, building economics, and integrated design. The diversity of the FARU is represented in the wide range of research undertaken by the faculty and students, both undergraduate and postgraduate.

FARU advances research collaborations with international universities with the initiatives and participation from the research faculty uniquely credentialed to address problems and needs related to national and global built environment issues. FARU international conference provides a global platform for national. International scholars, academics, and students to showcase their research work and publications.

Visit: https://uom.lk/foa/faru for more information.
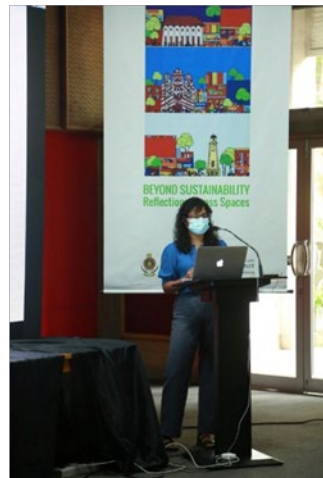
Student Awards

Many exceptionally talented students from the Department of Architecture have secured both national and international awards for their work in both "Architectural design projects" and "Research" throughout recent years. The students of the Department of Architecture have the opportunity of applying for several awards that are being awarded within the University as well as outside the University with their best performances as listed below.

University of Moratuwa Annual Convocation Awards

- **Gold Medal donated by Sri Lanka Institute of Architects** for the Honours Degree of Bachelor of Architecture Graduand who has obtained the highest overall Grade Point Average, above 3.8 at the Honours Degree of Bachelor of Architecture examinations

Annual University Award Ceremony

- **"Herbert Gonsal Award"** for the student who has obtained at least an "A" grade and the highest marks for the "Major Design Project" at Level 3 of the Honours Degree of Bachelor of Architecture program.
- **"Sumathipala Ranasinghe Award"** for the student who has obtained at least an "A" grade and the highest marks for the AE 2020- "Principles of Lighting Design" at the Level 2 of the Honours Degree of Bachelor of Architecture program.
- **"Geoffrey Bawa Design Award"** for the student who has obtained at least an "A" grade and the highest marks for the AD 5010- "Comprehensive Design Project" at the final year of the Honours Degree of Bachelor of Architecture program.
- **Dr. Justin Samarasekara Award** to be made to the student who has obtained the highest GPA of not less than 3.7 for the following Module AD2040 (Design Projects) of Level 2 of Bachelor of Architecture Honours Degree Programme.
- **Prof. K.R.S. Peiris Award** to be made to the student who has obtained the highest weighted(according to the credit values) GPA of not less than 3.7 for the Modules AD 4020, 4030 & 4040 of Level 4 of Bachelor of Architecture Honours Degree Programme
- **Gold medal donated by Deshamanya Dr. Surath Wickramasinghe** to be made to the student who has obtained the highest weighted (according to the credit values) GPA of not less than "A" for the Design Modules AD3020, AD4020, AD4030 & AD 4040 in Levels 3, 4 & 5 of the Bachelor of Architecture Honours Degree programme

## Sri Lanka Institute of Architects Award Ceremony

- **Award for best overall performance** in SLIA Part I exemption
- **Award for best overall performance** in SLIA Part II exemption
- **"Herbert E Gonsal Memorial Student Award"** for excellence in Design Achievement in Architecture at Undergraduate Level

Student Societies

1. Arcnest Architecture Awareness Group

Arcnest is a non–profit student society of the Department of Architecture of the University of Moratuwa with a vision to promote educational and extra-curricular activities of students of Architecture. Since its inception in 2012, Arcnest has organized many socially responsible projects, exhibitions, and educational programs.
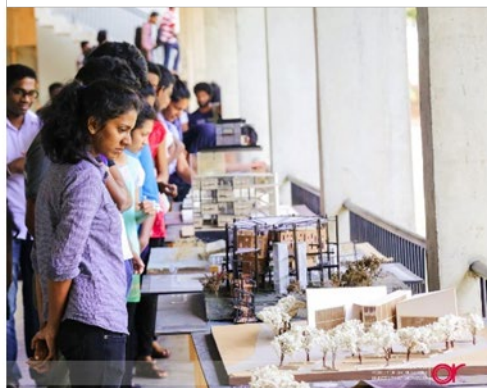
2. Architecture Art Circle (AAC)

Architecture Art Circle was established in 2015 to bring forward the hidden talents of the students who are studying in the Faculty of Architecture and reduce the mental stress of the students with their busy academic schedules. This cult was developed year by year with many talents shows and events. Along with these events, the members of the society participate at many events such as 'FAARU', 'Architect Exhibitions', 'Architecture Department Inauguration Ceremonies', etc. creating a place for all the young undergraduates to enjoy and express themselves through art.

# Facilities and Services

1. The Locations

D - The Administration Building

E - Library

F - Canteen

G - Medical Center

H- Gymnasium

I - Modelling & Construction workshops

Bolgoda Lake

N

The Main Entrance

A - Sumanadasa Building (Department of Architecture on the 3rd Floor)

B - New Architecture building – "Wing 2017"

C - The faculty of Architecture Office

## 2. Activity Places & Rooms

Sumanadasa Building – 3rd Floor
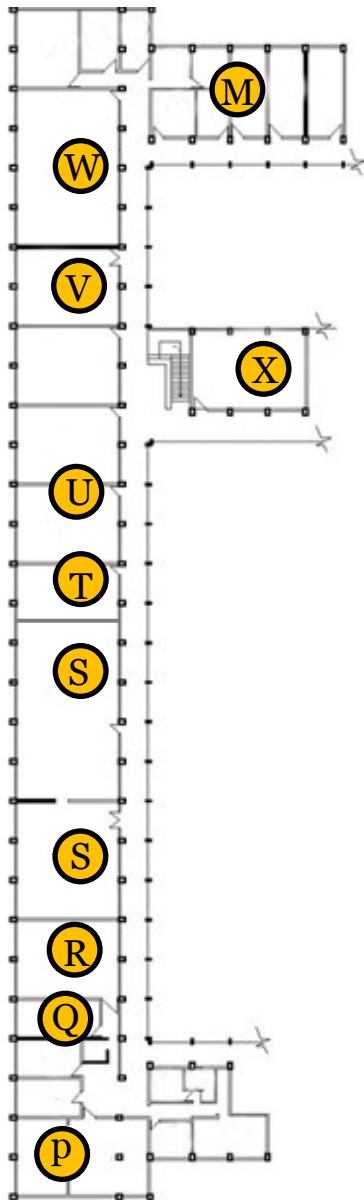
P - Architecture Administrative office
Q - Computer Lab (Staff)
R - Computer Lab (Student)
S - Architecture Studio-Level 4
T – UOM- Urban Lab – Centre for Cities
U - Environmental technology research Lab 1 & 2
V - Mini-Auditorium
W - Auditorium
X - Reading room

L - ACOMOS/ Conservation Lab
M -Studio - Master of Urban Design
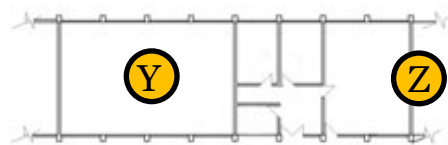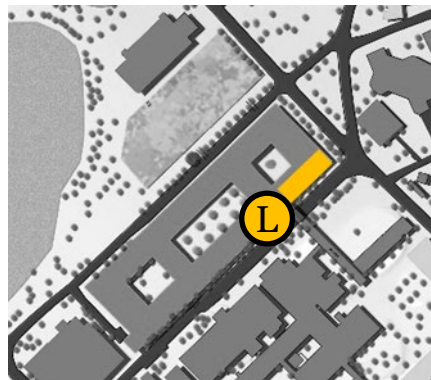
Z - Classroom
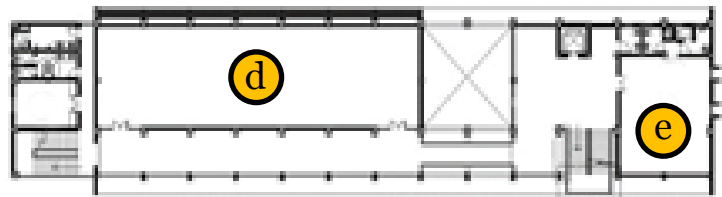Y - Architecture Studio –Level 5

Sumanadasa Building – Ground Floor
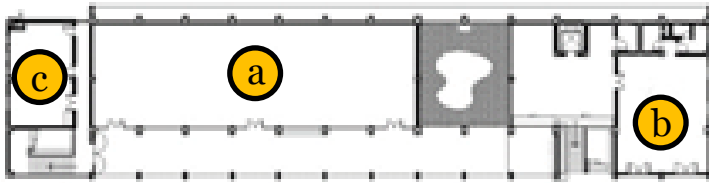
a - Architecture Studio-Level 2

b - Staff Room-Level 2

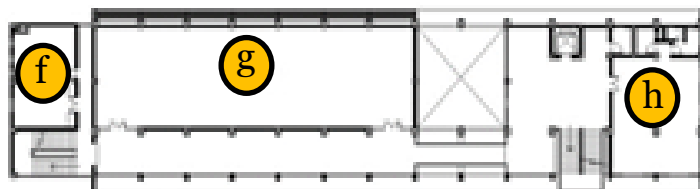c - Lighting and Acoustic Lab

New Architecture building – "Wing 2017"
Ground Floor

d - Architecture Studio-Level 1

e - Staff Room-Level 1

New Architecture building – "Wing 2017"
First Floor

f - Computer Lab

g - Architecture Studio-Level 3

h - Staff Room-Level 3

New Architecture building – "Wing 2017"
Second Floor

3. Library Provision and Other Facilities

	Location	Opening hours
Library Provision	Lending Section (Third Floor)	Monday – Saturday 7.30 a.m. – 7.00 p. m.
	Periodical Division (First Floor)	Monday – Saturday 8.30 a.m. – 7.00 p. m.
	Membership Counter (Second Floor)	Monday – Friday 8.30 a.m. – 4.00 p.m. Saturday 8.30 a.m. – 6.45 p.m.
	Reading Area (Second Floor)	Monday – Sunday 7.30 a.m. – 8.00 p.m.
	Study Area (Basement)	Monday – Sunday 5.00 a.m. – 10.00 p.m.
Information resources: IT facilities	Sumanadasa Building – 3 rd. Floor	8.00 a.m. to 4.30 p.m.
Timber workshop	Main Workshops of the University	8.15 a.m. to 5.15 p.m.
Metal workshop	Main Workshops of the University	8.15 a.m. to 5.15 p.m.
Student Counselling	Student Counselling Unit, 3rd Floor of the New Admin Building of UOM	Monday – Friday during working hours
Medical Consultation	Medical Center of UoM	8.30 a.m. - 12.30 p.m. 2.00 p.m. - 3.30 p.m.

Year Calendar 2021|2022

Bachelor of Architecture Hons (21 Batch) - Level 1

Semester I
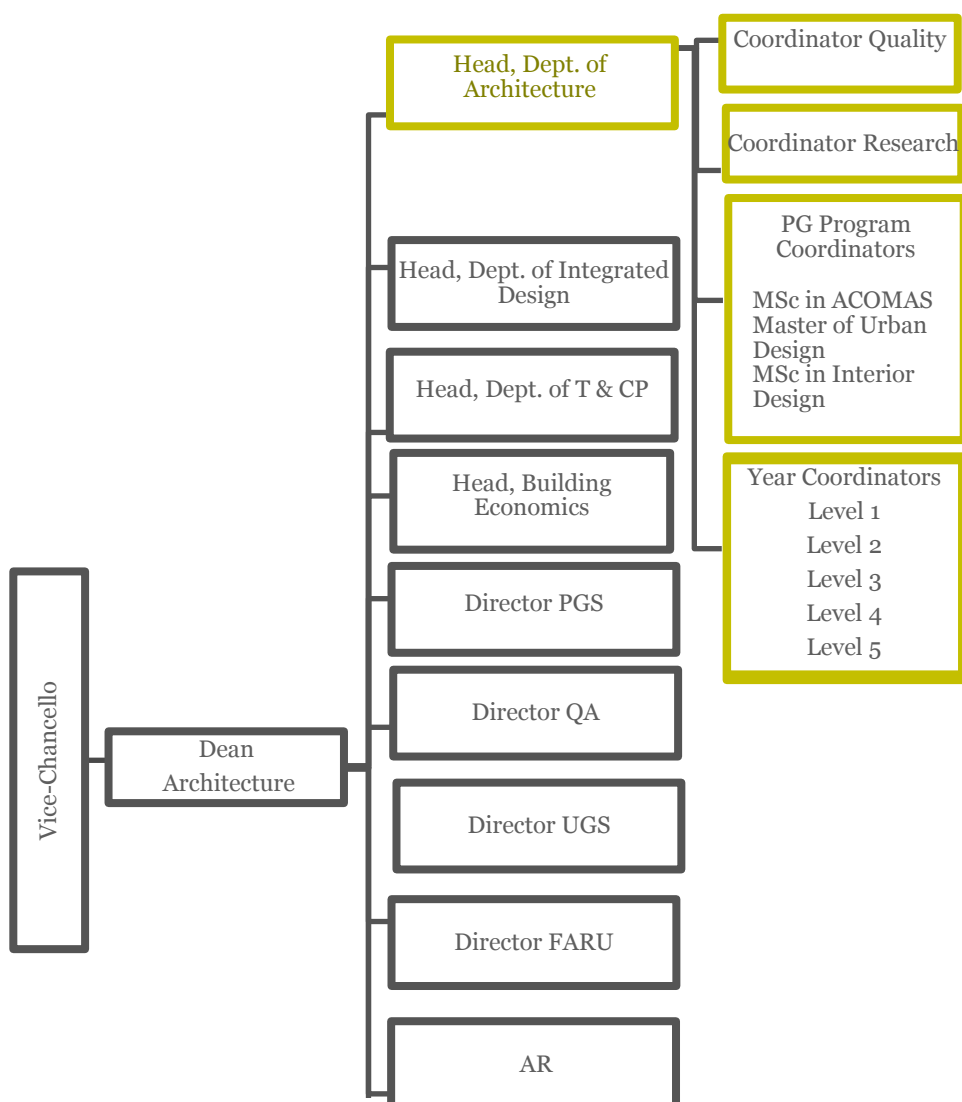|		
Inauguration, Orientation & Awareness	26.04.2022 - 30.04.2022	(01 week)
Academic Session	04.05.2022 - 13.08.2022	(15 weeks)
Study Leave	14.08.2022 - 29.08.2022	(02 weeks)
Examination	30.08.2022 - 09.09.2022	(02 weeks)
Semester Break	10.09.2022 - 19.09.2022	(01 week)

Semester II
Academic Session	20.09.2022 - 07.01.2023	(15 weeks + 1 week Christmas Holiday)
Portfolio Examination & Study Leave	08.01.2023 - 23.01.2023	(02 weeks)
Examination	24.01.2023 - 04.02.2023	(02 weeks)
Portfolio Repeat Marking/ Finalizing	05.02.2023 - 13.02.2023	(01 week)

B. Arch Hons. (21 Batch) Level 2 to commence 14.02.2023

Administration

Management Structure of the faculty of Architecture

Vice-Chancello — Dean Architecture

- Head, Dept. of Architecture
  - Coordinator Quality
  - Coordinator Research
  - PG Program Coordinators

    MSc in ACOMAS
    Master of Urban Design
    MSc in Interior Design
  - Year Coordinators
    - Level 1
    - Level 2
    - Level 3
    - Level 4
    - Level 5
- Head, Dept. of Integrated Design
- Head, Dept. of T & CP
- Head, Building Economics
- Director PGS
- Director QA
- Director UGS
- Director FARU
- AR

Important Links

For more information and updates, please visit the Department Website;

https://uom.lk/archi

Internal Links:

1. Library, University of Moratuwa
   http://www.lib.mrt.ac.lk/index.php

2. UoM Moodle
   https://online.uom.lk/login/index.php

3. Student Counselling Unit
   https://uom.lk/scu

4. Medical Center
   https://uom.lk/medical-center

5. Welfare Division
   https://uom.lk/welfare

6. Center for IT Services
   https://uom.lk/cites

7. Department of Architecture, University of Moratuwa - Website
   https://uom.lk/archi

8. Department of Architecture, University of Moratuwa - Facebook
   https://www.facebook.com/uomarchitecture

9. Department of Architecture, University of Moratuwa – YouTube
   https://www.youtube.com/channel/UCTpwri-w6JQzMB-Ip7X15nQ/featured

External Links:

1. Sri Lanka Institute of Architects (SLIA)
   https://www.slia.lk/

2. National Science Foundation of Sri Lanka
   http://www.nsf.ac.lk/

3. National Library of Sri Lanka
   http://www.natlib.lk/

4. Construction Industry Development Authority (CIDA)
   https://www.cida.gov.lk/index_e.php

5. Urban Development Authority (UDA)
   https://www.uda.gov.lk/

6. University Grants Commission (UGC)
   https://www.ugc.ac.lk/

Student
Handbook
BArch 2022

Bachelor of Architecture
Honours Degree Program
Department of Architecture
University of Moratuwa

April 2022