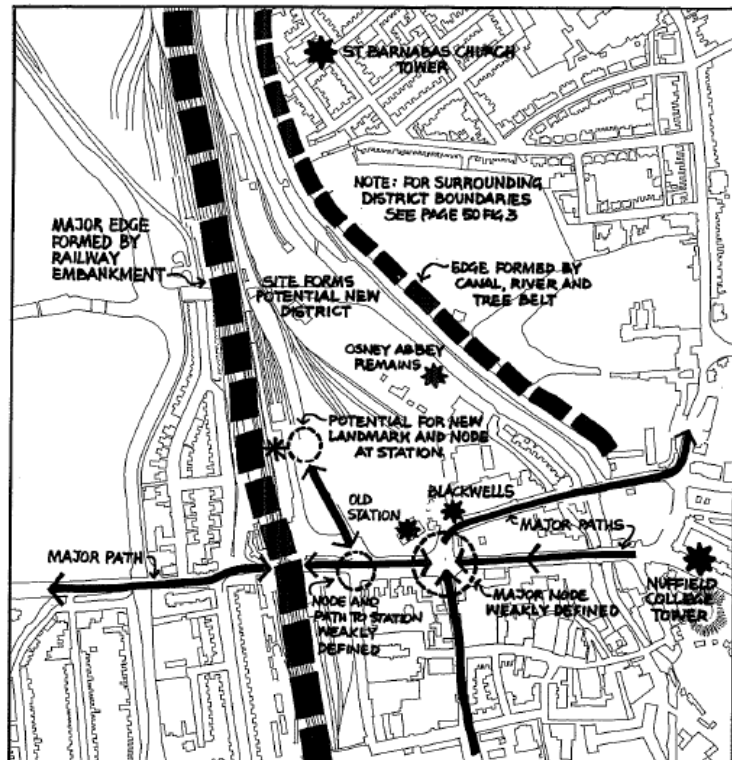


BACHELOR OF SCIENCE (HONOURS) IN ARCHITECTURE

**ARCHITECTURE DESIGN STUDIO V
(ARC60306)**

PROJECT 1

August 2018



Legibility analysis from Responsive Environments, Ian Bentley *et.al.* 2013



SCHOOL OF ARCHITECTURE, BUILDING & DESIGN

Centre for Modern Architecture Studies in Southeast Asia

Bachelor of Science (Honours) in Architecture

ARCHITECTURE DESIGN STUDIO V (ARC60306)

Prerequisite: Architecture Design Studio IV

Project: 1 Preliminary studies

20% of the final marks

Submission date:

Final Submission & Presentation: Week 4, Thursday (20 September 2018)

Introduction

The Preliminary Studies is a preparatory assignment that focuses on investigating basic notions of the city, and learning from examples of Learning Centre around the world. This assignment aims to firstly introduce students to the basics in urban design and its relation to architecture, and secondly, studying and determining the programmatic function, societal role and spatial layout of a Learning Centre and architectural responses for urban infills.

The Preliminary Studies comprises of three components: Site Documentation, Site Analysis, and Precedent Studies of Urban Infills and Learning Centre. The Site Documentation and Site Analysis will equip students with a firm understanding of the site they will be working with this semester, while the Precedent Studies will provide an insight into architectural responses for designing an urban infill Learning Centre.

The outcome of the Preliminary Studies will include the production of site documentation materials (drawings and models in both digital and physical copy for further use), a comprehensive analysis of the site, and a detailed case study of a relevant urban infill and Learning Centre.

Objectives of Project

The objectives of this assignment are as follows:

1. To have an overview of the formation of cities and introduce basic concepts of urban design in relation to architectural design
2. To introduce and implement basic methodologies of urban studies
3. To investigate the role of multi user typologies in traditional and contemporary urban societies
4. To examine various examples and architectural responses for urban infills

Learning Outcomes of this Project

1. Analyze the site character and identify conditions of the urban streetscape and urban behavioural patterns
2. Analyze case studies to gain understanding of architectural response for urban infill sites and for spatial programming to inform the design project
3. Produce necessary documentation (diagrams, mappings, photographic images, orthographic drawings and models) to record and communicate site analysis findings, and for further use in the coming design stages

Brief

The site context is in a few in-fill corner-lots of Jalan Stesan 1. There is a real life scenario to empower the urban communities that are being faded by contemporary scenarios. The studio project is collaborative with a research project at Taylor's University. The vision for the area to be a) a place for the community and b) with an active frontage of the streets

The major issue being the fall of spatial connections and engagement to the local community, to the tides of various contemporary forces. The current trend is fading the rich cultural heritage rather than nurturing it. The solution is in design employing critical approach to the notion of 'content' as a purposeful narrative to powerful questions relevant to the context (Low, 2010). To begin with, the question is:

What are the possibilities to establish a Learning Centre that connect to and empower the urban community, at the street scale?

Urban study

The study has to be done in two levels of complexity, namely, the **macro and, with more focus to, micro contexts**. Whilst the macro study is about the role and how the location fits into the city. In micro study the students are to make a comprehensive study on urban form, activity and movement-pattern. 'Legibility Analysis' (Bentley, *et al.* 2013) which is a method through the exploration of Kevin Lynch's Elements of legibility (Lynch, 1979) is employed here as a study method. The students are to establish possible opportunities (such as routes and attractions) to sustain and to offer legibility by the proposed learning centre. The students will also begin to demonstrate an understanding of urban issue given in the scenario above. The course work will integrate to Theories of Urbanism in which the Studio site (the street) will be studied for the spaces between the buildings which will focus on public realm furthering the case studies from the West. Such an understanding should reflect here in the Project 1.

Site information:

The site context is in a few in-fill corner-lots of Jalan Stesan 1. The extent of studies for macro and micro studies are 500m radius and 200m radii from the street, respectively. For the analytical stage you are to analyze two infill-corner sites. For the subsequent stages in the studio, you must choose either of the infill-corner sites.



Source: London Archives, Klang 1949

Macro data inventory (of about 500m radius):

Key concepts and themes to be discussed in relation to the analysis include:

- a) PERCEPTION: *Way-finding (5 Lynchian elements of legibility), Serial vision (Gordon Cullen's)*
- b) FORMAL & SPATIAL: *Built-form typologies and Morphology, Figure/Ground Mapping*
- c) SOCIAL: *Patterns of Movement and Use, Human Behaviour, Street Culture, Building types.*

The entire class will collect the data on the above criteria of analyses. An intensive use of diagramming and mapping to represent findings, is imperative. Refer to the Urban Design Compendium I for the possible list of data sets.

Micro Studies (of about 200m radius):

The above themes of study apply and the task here is to formulate evidences on the sense of place following the workshop on keywords or narratives, on micro scales. It is imperative that a) an intensive use of diagramming and mapping to represent ideas and findings and b) the relevance of macro studies to the site and micro studies is consistent.

The notion of place making is important here through the ideas of sense of place and key characteristics of the city. You could use the various themes to connect to the context such as

- i) urban form,
- ii) function,
- iii) society,
- iv) history and
- v) perception.

A special focus to be given to *URBAN WALLS*. Although urban walls fall under the category of urban form above, the space, perception and use on such a form will be the point of interest here. A façade study on the walls to be done to exemplify the understanding on:

- Positive outdoor space
- The edges
- Building size and scale
- Usages and
- Public realm

The conclusion from the urban analysis should be formulated in SWOT format, identifying urban issues and inspirations. This is a group submission. You must also conclude the micro study with a representation of design position or scenario or idea. This is an individual submission and the objective here is find relevant question that you want to explore in the next stage of the studio, the Architectural Design Strategy

Precedent Studies

Each group is required to study and analyse two precedent studies; one from international context and the other from tropical cities; to cover the aspects of a) Learning Centre, b) tropical architecture and c) infill context. In analysing the precedents, students should develop an understanding and awareness of:-

(1) What is an Urban Infill?

This investigation is to help you understand what an urban infill is, and what are the architectural strategies (massing, spatial planning, façade design, etc.) adopted that are necessary in response to its physical context and functional programme. Investigate what were the regulatory laws that the architects were required to comply to as well.

(2) What is a Learning Centre?

In this module, we shall define the Learning Centre as a “place which provides public with access to activities of learning as social meeting grounds for an urban/suburban community”. This part of the Precedent Study entails an investigation into a relevant example of a Learning Centre and inquiry into establishing its role within its specific context and community. Analysis on form, function and circulation of the cases, is imperative here.

(3) What are the design elements of tropical architecture?

In one of your precedent studies, you are to highlight the design elements that are significant to tropical architecture. Such elements could be courtyards, interstitial spaces, hot air escape routes and so on.

Key themes and criteria that require consideration in this study include the following: *Programmatic Response, Formal Response, Street response, Public/Private Realms, Society & Culture.*

Final Submission

The submission and presentation is **Thursday Week 4**. Each group is to submit the following:

Site Documentation

Soft Copy (Submitted in CD)

- Digital site model .skp *common shared file*
- Plans and elevations of site .dwg *common shared file*

Hard Copy

- Plans and elevations of site *printed out from .dwg file & scaled to fit A3/A4 paper size*

Macro Studies – group

- Power point presentation on Perceptual, formal and social inventory on the site x 40 to 50 A3 plates/slides landscape layout. (scale of the plans could be from 1:500 to 1:2000 depending upon what you wanted to represent)
- A3 Booklet.

Precedent Studies – group

- 4 to 6 x A3 panels in both hard and soft copy (PDF) format *portrait layout*

Micro Studies – group and individual

- 25 to 30 x A3 panels in both hard and soft copy (PDF) format *portrait layout*
- 1 to 2 x A3 panels on representation of a design idea or position or even a scenario – individual submission
- Model and drawings in 1:200

**You are required to reference at least 5 written/book sources and include a bibliography for both the Site Analysis and Precedent Studies panels from the Weekly Readings, Main References and Additional References (as provided by the Module Coordinator and listed in the Module Outline).

References:

Main References:

1. Baker, G. 1989. Design Strategies In Architecture (2nd Ed.). New York: Van Nostrand Reinhold.
2. Bentley, I., *et.al.*, 2013, *Responsive Environments: Manual For Designers*, Routledge, London
3. Lynch, K. 1979. The Image Of The City. Cambridge, Massachusetts: The MIT Press.
4. Low, K. M., 2010, *Smallprojects*, Adaptus
5. Llewelyn – Davies, 2001, *Urban Design Compendium 1, Chapter 4 'Facades and Details'*, English Partnerships, the Housing Corporation, London

For Weekly Readings, please refer to the handouts to be provided by the Module Coordinator.

*Note: Students are required to obtain a minimum C grade in this assessment to pass the module.

Assessment criteria

1. Urban studies: macro 10% and micro 60%
2. Precedent studies 25%
3. Peer evaluation 5%

Marking Criteria	Marks %	Acquired TGC
<p>URBAN STUDIES</p> <p>Have the students developed an understanding of basic urban concepts and awareness of issues related to the urban context? How is the understanding translated into the individual design project?</p> <p>These will be assessed via the following:</p>	70	1.2, 2.0, 7.0
SITE DOCUMENTATION: MACRO	10	
<p>REQUIRED DOCUMENTS</p> <p>A complete set of documentation as listed in the Submission Requirements above is required.</p>	5	
<p>BONUS MATERIALS</p> <p>Bonus points for creative audio-visual recordings and mappings of textures, sounds, colours, etc.</p>	5	
SITE ANALYSIS: MICRO	60	
<p>IDENTIFICATION</p> <p>Identify key elements related to the urban context in their analysis.</p>	10	
<p>ARTICULATION</p> <p>The SWOT presentation is comprehensive. Representation techniques are appropriate</p>	20	
<p>CRITICAL ANALYSIS</p> <p>Do the students organize and elucidate their findings critically and clearly using the appropriate illustrations (i.e. place-making, mapping, diagrams)?</p>	20	
<p>IMPLEMENTATION OF PRELIMINARY STUDIES (individual)</p> <p>Drawing conclusions on the way forward to resolve the urban issue</p>	10	
PRECEDENT STUDIES	25	1.2, 2.0, 7.0
<p>IDENTIFICATION</p> <p>Are the students able to identify and list 1) key elements and architectural strategies in their case study of an urban infill, 2) determine the role and key design criteria for a Learning Centre?</p>	10	
<p>ARTICULATION</p> <p>Do the students use the originality in the presentation of their observations and findings?</p>	5	
<p>CRITICAL ANALYSIS</p> <p>Do the students organize and elucidate their findings critically and clearly using the appropriate illustrations (i.e. mapping, diagrams)?</p>	10	
<p>PEER EVALUATION</p> <p>This individual assessment will be grade each student's team contribution</p>	5	
TOTAL	100%	

SCHEDULE

(Subject to change at short notice)

Date/Week	Lecture/Presentation	Discussion/ Tutorial	Self-directed Study
	Hours	Hours	Hours
Mon, 27 August	Module Introduction Project 1 Introduction Lecture 01: Urban Analysis & Mapping: Spatial and Perceptual Study Tools Dr suchi	Lynchian Exercise & site briefing	Site Analysis, Documentation & Precedent Studies
Thurs, 30 August		Site visit	
Week 1	2	8	6
Mon, 3 September	Lecture 02: Place Making: Asian Streets and Context Ar. Alice Lim & Dr suchi	Data recording – debate on macro	Site Analysis, Documentation & Precedent Studies
Thurs, 6 September	Lecture 03: Diagramming for analysis Lecture 04: Precedent studies by Dr suchi	Macro inventory presentation Micro: workshop on sense of place	
Week 2	2	8	6
Mon, 10 September	Public holiday: online tutorials	Micro	Site Analysis, Documentation & Precedent Studies
Thurs, 13 September		Tutorial: on precedents/micro	
Week 3	2	8	6
Mon, 17 September	Public holiday: online tutorials	Draft pin up micro/macro/precedents	Site Analysis, Documentation & Precedent Studies
Thurs, 20 September	Submission of Project 1 20%	Submission pin up (micro/precedent)	
Week 4	2	8	6

Prepared by:



Checked by:



Approved by:



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Date: 21/08/ 2018

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Date: 22/08/2018

Mr. Ahmad Nazmi Anuar

Stream Coordinator

(Design Studies)

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Date: 22/08/2018

Mr Mohd. Adib Ramli

Program Director

BSc. (Hons) in Architecture

Remarks:

1. The Project Brief is to be distributed to the students in the first week of the semester.
2. Any changes to the Project Brief shall be communicated (in writing) to the Programme Director and the approved revised version must be communicated to the students