



SCHOOL OF ARCHITECTURE, BUILDING & DESIGN

Centre for Modern Architecture Studies in Southeast Asia (MASSA)

Bachelor of Science (Honours) in Architecture

Module: ARCHITECTURAL DESIGN STUDIO 2 (ARC 60205 / ARC 1126)

Project 2 : Introduction to Site Analysis + Pavilion @ National Botanical Garden Shah Alam



Lake Pavilion in New Canaan, Connecticut.

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|------------------|------------|--------|------------|-------------------|------------------------------|
| Project 2 | Group of 2 | LO 1,2 | 30% | Drawings + Models | Pin up + Verbal presentation |
|------------------|------------|--------|------------|-------------------|------------------------------|

TASKS

1. Introduction to Site Analysis (Group Work)

You are required to **conduct site analysis** of the physical context both at a macro & micro level of the overall site. Use the following reference as a framework for your recording and analysis of your site: White, E. 2004. *Site Analysis: Diagramming Information for Architectural Design*. Tallahassee, Florida: Architectural Media Ltd. Collect data and record on the following using **physical maps/diagrams**:

- **Site plan** (Site section, Site Boundaries, North Point, Contours)
- **Existing Structure** (Significant Architectural Language/Feature, Adjacent building/structure building to remain/demolish)
- **Landscape** (Natural features, Soil Condition, Surface Drainage, Existing vegetation)
- **Climatic Studies** (Sun path, wind direction, rain)
- **Circulation pattern** (pedestrian, vehicular)
- **Views and Vistas** (Panoramic /spot in, out, approaching)
- **Activities** (category -dry/wet, zoning, noise)
- **Case Studies** (Perdana Canopy & The Bamboo Playhouse)

You are also required to do a site model of the respective site(s)

2. Pavilion @ National Botanical Garden, Shah Alam

- In group of 2, you are to **design a pavilion (with a maximum volume of 30m³)** for the purpose of relaxation and pleasure. It shall include other activity(s) such as meditation, observation, etc. in which furniture and equipment must fit and be incorporated into the design. This structure should **correspond to the site that you have chosen**. Adequate **access, circulation** and **fenestration** are mandatory.

OBJECTIVE

The aim of this project is to generate structure, form and space through **architectural conceptualisation** (which you are required to choose 2 'keywords' from project 1), with the emphasis on the user requirement, ergonomics and site responding to develop an **architectural proposition**. Students will be shown the importance of using the **art of crafting and making**: drawing(s) and model(s) as a **critical design tool** as part of the design process.

Duration - 4 weeks

SUBMISSION REQUIREMENT

The final submission for this project shall include:

1. **Site analysis** - of the physical context eg *site plan, site section, site elevation* on **1 piece of A3**.
2. **A series of 2D diagrams (1 piece of A3.)** - Diagrammatic explanation of the composition of **Space and Form** (which explains how the design is responding to the user and context),
3. **A series of detail drawings (1:50 scale)** - as a set of a series of *floor plans, sections, elevations, axon and perspectives*, which must be done **freehand** and **beautifully rendered**. The drawings must **demonstrate** the concept that has informed the design on **4 pieces of A3 or 2 pieces of A2**.
4. **A series of models (1:50 scale)** a minimum of **4** which includes: **3 process models and a final model**. The final model must be beautifully crafted with balsa or model board or perspex or brown board, etc to be left in their natural colour and to be mounted on an **A3 MDF board**.

MARKING CRITERIA

Marks shall be distributed as follows:

| Marking Criteria | Marks % | Acquired TGC | FAIL | POOR | SATISFACTORY | GOOD | EXCELLENT |
|--|-----------|-------------------------------------|------|------|--------------|------|-----------|
| 1. Use design elements such as space, surfaces, openings and partitions in the design of a simple architectural space | 20 | 1.1, 1.3, 2.1, 5.1, 5.2, 6.1 | | | | | |
| Clarity of forms and space ordering | 10 | | | | | | |
| Richness of content | 10 | | | | | | |
| 2. interpret and analyze simple site context | 30 | 2.1, 4.1, 6.2, 6.3 | | | | | |
| Evidence of physical site respond | 10 | | | | | | |
| Evidence of climatic consideration | 10 | | | | | | |
| Evidence of simple construction understanding in relation to site | 10 | | | | | | |
| 3. interpret and analyze user needs in relation to the design of a small building | 30 | 2.2,3.1,3.2 | | | | | |
| Understanding of user requirement | 10 | | | | | | |
| Evidence of anthropometric study | 10 | | | | | | |
| Space/function relationship | 10 | | | | | | |
| 4. drawings and models | 20 | 4.1,8.1 | | | | | |
| Clarity of drawings, scale, line works | 10 | | | | | | |
| Workmanship of models and scale | 10 | | | | | | |

TIMELINE + SCHEDULE

Name: _____

Student ID: _____

| WEEK | SESSION | TOPIC | Submission | Comments | Tutor |
|------|-------------------|--|--|----------|-------|
| 4 | 1 (20.9.2016) | Project 2 Introduction : Pavilion Lecture 2: Site Analysis Group Tutorials – Research activity | | | |
| | 2 (22.9.2016) | (1) Research Activity (2) Case Study Presentations - Perdana Canopy - The Bambo Playhouse | | | |
| | (24.9.2016) | Site Visit to National Botanical Garden Shah Alam | Site Visit | | |
| 5 | 1 (27.9.2016) | Lecture 3: Architectural Conceptual Development Group Tutorials - Site Analysis Presentation | Group Presentation | | |
| | 2 (29.9.2016) | Five (5) Conceptual Models | | | |
| 6 | 1 (4.10.2016) | Lecture 4: Contextual & Vernacular Architecture Tutorials – Development of conceptual models + sketches | | | |
| | 2 (6.10.2016) | Drawings + models | Interim Submission All A3 drawings | | |
| 7 | 1 (11.10.2016) | Preparation for final model and presentation. | | | |
| | 2 (13.10.2016) | Project No. 2: Pin up + Presentation | Sub Project 2 (30%) | | |

RECOMMENDED READINGS

1. D.K. Ching, F. 1993. Architecture: Form Space and Order (2nd ed.). Van Nostrand Reinhold.
2. Porter, Tom, 2000. Architectural Supermodel: Physical design simulation / Tom Porter and John Neale.
3. Professional Model Making: a handbook of techniques and materials for architects and designers.
4. White, E. 2004. Site Analysis: Diagramming Information for Architectural Design. Tallahassee, Florida: Architectural Media Ltd.

Prepared by:

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Checked by:

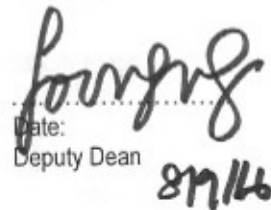
Mohd Adib Ramli



Date: 8/9/16
Programme Director

Approved by:

Associate Professor
Dr. Veronica Ng.



Date: 8/9/16
Deputy Dean

Remarks:

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