



UNIVERSITI
TEKNOLOGI
MARA

Perak Branch

AICAD
ASIA INTERNATIONAL COMMUNITY
OF ART & DESIGN

PRESENTS

INDDEX

INTERNATIONAL DEGREE DESIGN EXCHANGE

2022

★ RESET • REBUILD • RECONNECT ★

**UNIVERSITI TEKNOLOGI MARA
PERAK BRANCH
SERI ISKANDAR, PERAK, MALAYSIA**

14-22 AUG 2022

DEGREE SHOWCASE - Catalogue

**International Degree Design Exchange
(INDDX) 2022**
Degree Showcase E-Catalogue

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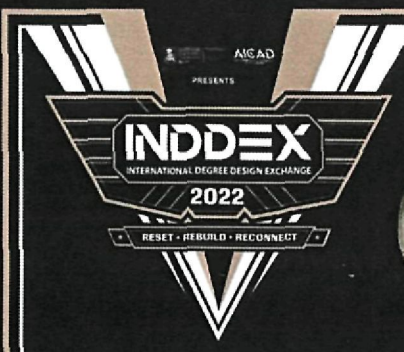
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DEGREE SHOWCASE

Name : Farros Khozi Fatih Dj. Department : Architecture
 University : Universitas Pembangunan Jaya Project Title : Serpong Public Library

Introduction / Background

An **Urban Catalyst** can be determined as an act of developing brownfields or abandoned areas into useful developed areas through buildings, landscapes, and projects. This initial spark in development aims to be able to **facilitate social and economical activities** where prior there were none. An Urban catalyst must also be within walking distance of other developments, have strategically planned EGRIS points and entries that shape the circulation of the foot traffic. (Sternberd, 2002f).

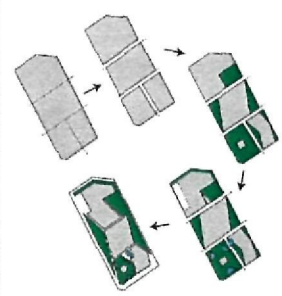
Objective/ Methodology

This project brief was to design a building that could act as an Urban catalyst. The building must have a **wide span structure** of 40 - 60 meters and 2 - 3 massings in a site of 1.5 - 2 hectare. The site that I chose for this project was in Serpong, Tangerang on Letnan Sutopo Street in a main junction that had no developments planned. I chose a **library** as my building's use as the area supported the education with many schools and family neighbourhoods but not many places to study outside of school hours.

Media Planning / Purpose

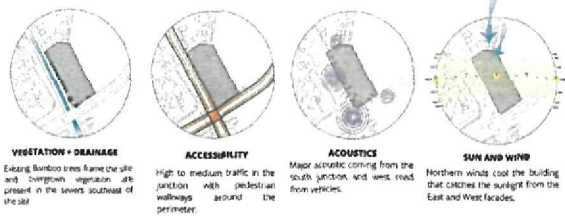
The site located in Serpong, Tangerang is known to have its elite prestige owned by private developers, the surrounding feels **very exclusive** and of higher class residents. Thus, creating a lack of collective and collaborative participation and use by the general public due to the extensive availability of the **gated communities** and private facilities. The hope of the urban catalyst would be to encourage other users into the area to also increase foot traffic to the surrounding businesses.

Design Process / Design Concept



Design

Micro Analysis



VEGETATION + DRAINAGE
 Existing Bamboo trees frame the site and overgrown vegetation acts as a barrier in the south southeast of the site.

ACCESSIBILITY
 High to medium traffic in the junction with pedestrian walkways around the perimeter.

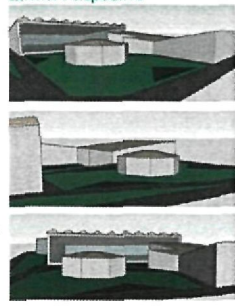
ACOUSTICS
 Major acoustic coming from the south junction and west road from vehicles.

SUN AND WIND
 Northern winds cool the building that catches the sunlight from the East and West facades.

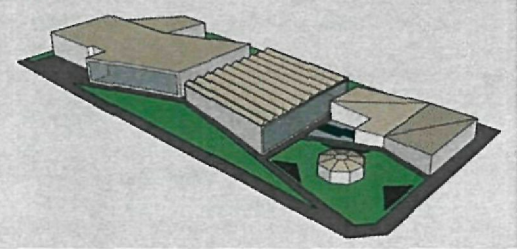
Sustainable Eco-Development

- APPROPRIATE SITE DEVELOPMENT (ASD)**
- ASD 0 - Basic Green Area
- ASD 1 - Site Selection
- ASD 2 - Community Accessibility
- ASD 3 - Public Transportation
- ASD 4 - Building Footprint
- ASD 5 - Site Landscaping
- ASD 6 - Storm Drain
- ASD 7 - Stormwater Management
- Energy Efficiency and Conservation (EEC)**
- EEC 0 - Electrical Sub-System
- EEC 01 - LED Lighting
- EEC 1 - Energy Efficiency Measures
- EEC 2 - Natural Lighting
- EEC 3 - Ventilation
- EEC 4 - Climate Change Impact
- EEC 5 - On Site Renewable Energy Source
- Water Conservation (WC)**
- WC 01 - Water Harvesting
- WC 02 - Water Calculation
- WC 1 - Water Use Reduction
- WC 2 - Water Reuse
- WC 3 - Water Recycling
- WC 4 - Alternative Water Resources
- WC 5 - Rainwater Harvesting
- Building Environments Management (BEM)**
- BEM 0 - Basic Waste Management
- Material Resource and Cycle (MRC)**
- MRC 0 - Functional Performance
- MRC 1 - Building as a Resource Process
- MRC 2 - Environmentally Friendly Material
- MRC 3 - Non-GOS Usage
- MRC 4 - Certified Wood
- MRC 5 - Perish Material
- MRC 6 - Regional Material
- Interior Health and Comfort (IHC)**
- IHC 0 - Outdoor Air Intake Reduction
- IHC 1 - CO2 Monitoring
- IHC 2 - Environmental Tobacco Smoke Control
- IHC 3 - Outdoor View
- IHC 4 - Thermal Comfort
- IHC 5 - Thermal Comfort
- IHC 7 - Acoustic Levels

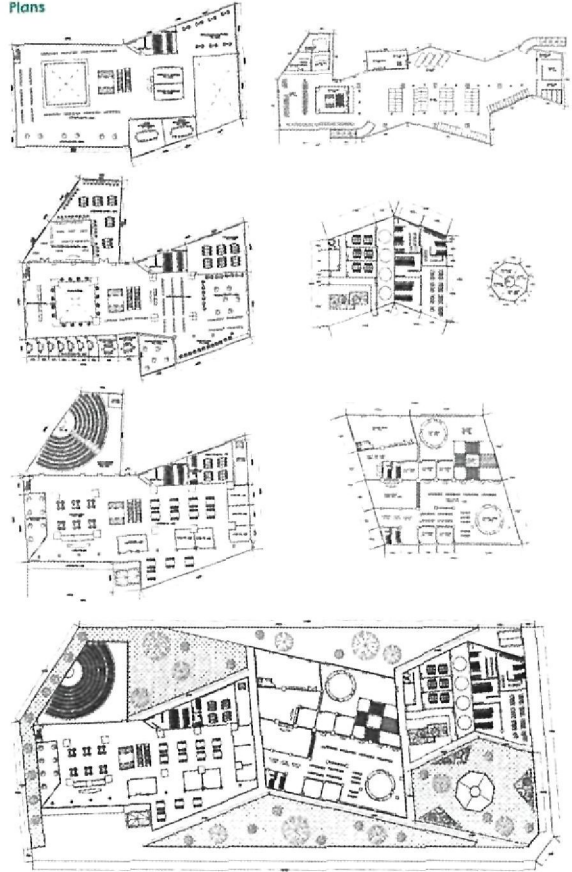
Exterior Perspective



Overall Site



Plans



Surat kami : 700-KPK (PRP.UP.1/20/1)
Tarikh : 30 Ogos 2022

YBhg. Profesor Ts Sr Dr Md Yusof Hamid, PMP, AMP
Rektor
Universiti Teknologi MARA
Cawangan Perak



YBhg. Profesor

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MELALUI REPOSITORI INSTITUSI UiTM (IR)**

Perkara di atas adalah dirujuk.

2. Pihak Perpustakaan ingin memohon kelulusan YBhg. Profesor untuk membuat imbasan (*digitize*) dan memuat naik semua jenis penerbitan di bawah UiTM Cawangan Perak melalui Repositori Institusi UiTM, PTAR.
3. Tujuan permohonan ini adalah bagi membolehkan akses yang lebih meluas oleh pengguna Perpustakaan terhadap semua bahan penerbitan UiTM melalui laman Web PTAR UiTM Cawangan Perak.

Kelulusan daripada pihak YBhg. Profesor dalam perkara ini amat dihargai.

Sekian, terima kasih.

“WAWASAN KEMAKMURAN BERSAMA 2030”

“BERKHIDMAT UNTUK NEGARA”

Yang benar

SITI BASRIYAH SHAIK BAHARUDIN
Timbalan Ketua Pustakawan

nar

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