

# ARCHITECTURE AND SUSTAINABLE DESIGN (ASD)



Sustainable Design Option Studio. The Theatrical Tower and the City Stage by Tan Gee Yang & Caleb See.

## OVERVIEW

ASD is characterised with a hands-on take towards architecture and sustainable design with technology, to restore and reimagine our skyline's past, present and future.

Students have the opportunity to explore with digital tools, machines and robots, widening their learning and innovation experience to be the next generation of architectural leaders to design a better tomorrow.

## ADDRESSING SUSTAINABILITY WITHIN COMPLEXITY

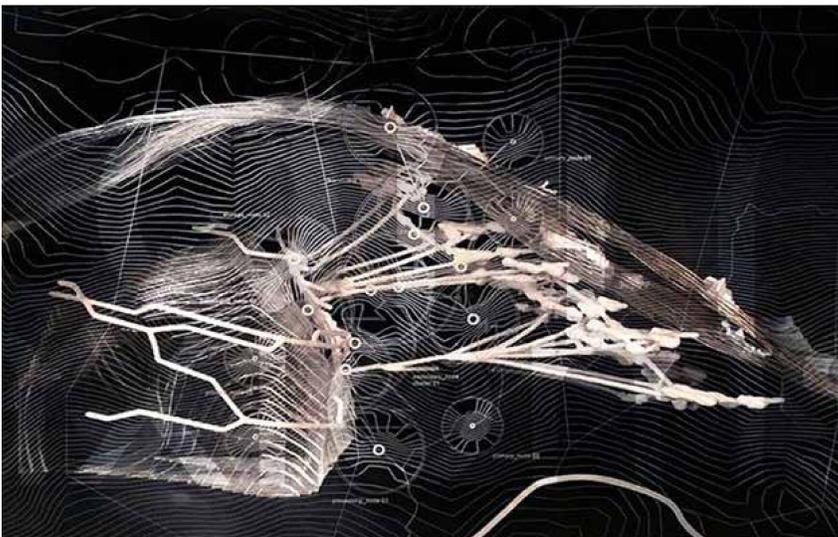
Develop competencies through four focus areas to pursue intelligent and comprehensive architectural and urban solutions.

## NEW FRONTIERS IN ARCHITECTURAL EXPRESSION

Develop solid skills in the most cutting-edge digital tools, applying computational thinking, parametric design and AI to architecture.

## INNOVATIVE CURRICULUM AND PEDAGOGY

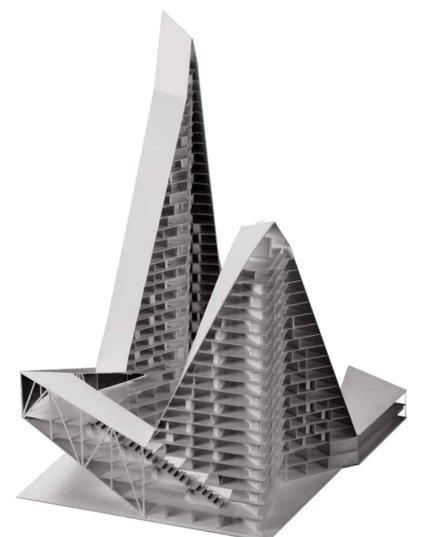
Develop critical thinking to design through enquiry, reflection and invention; and directly experience construction process.



Master thesis. Black Strata by Daryl Ho.



Master Thesis. New attitude towards transformation in HDB by Ong Li Yen.



Architecture Core Studio 3. Urban Typologies by Lee Xin Ting.

## ALUMNI TESTIMONIALS

SUTD's **multi-disciplinary approach** to design and architecture is, in my view, its key differentiator. Working together with other programmes extends the toolkit and repertoire of an architect beyond just merely contenting with architectural and design concerns in silo, to one that begins to **understand technical constraints of engineering and the salient potentials of digital technologies to create tightly integrated and innovative new solutions**. All these have helped me to approach problems with a multi-disciplinary mindset and discipline.

**Jonathan Ng**  
Class of 2018, ASD Alumnus  
Cohort 2018, Harvard GSD

The multi-disciplinary education at SUTD has enabled me to be technically grounded, while at the same time developing the **empathy to approach issues from multiple perspectives through evidence-based design**. The building and construction industry today is fast-changing, with the implementation of new software, systems and innovations such as Building Information Modelling (BIM), environmental sustainability, computational design and new materials.

SUTD has also prepared me for this, by inculcating a **future-ready mindset through its hands-on collaborative culture and industry-centric approach**. This has enabled me to be more receptive and prepared to undertake new challenges, while always being open to new ways of thinking and creating with others.

**Leon Cher**  
Project Executive,  
Far East Organization  
Class of 2015, ASD Alumnus

## INDUSTRY TESTIMONIALS

I have seen an incredible range of projects from the SUTD master's programme and I am very impressed with its students.

Their **in-depth research of design and its applications** was capable and disciplined as they **dealt with issues that not only included local constraints, but also the global environment**. I saw a variety of thesis projects discussing cities such as Detroit and continents such as Antarctica.

Their understanding and problem solving skills regarding architecture specific to a location proved most promising. For me that is a real thesis project. I am thankful to have participated in a lively and dynamic dialogue with the SUTD students.

**Hsinming Fung**  
Principal at Hodgetts + Fung  
Director of International Programs at SCI-Arc

I really appreciate the variety of works here. I think that every scheme has a distinct identity and that is something very exciting. Overall, **the spirit seems to be very experimental and it speaks of the direction that the school is taking** which I think is a very good thing.

**Kelley Cheng**  
Creative Director, The Press Room  
Editor-in-Chief, Singapore Architect (2009-2016)