

## **ARCHDES 300 | DESIGN 5 | TOPIC OUTLINE | SEM 1 2019**

Design 5 presents an introduction to complex architectural thinking. It examines both conceptual and exceptional spaces and develops an understanding of corresponding architectural methodologies and systems. Topics will explore the cutting edge of architecture, with an individual emphasis on the theoretical, contextual, architectonic, communicative, material, spatial, sociological or topographical.

**MEGAN RULE/FABIO NAMIKI**

**pepeha / introduction**

**Mt Eden-Southland/Mt Eden -Sao Paulo**

**South Pacific Architecture Practice/Sao Paulo Practice**

**Community , Housing , Landscape, Education and Research**

### ***SCAR CITY TO SMART CITY***



## GENERAL COURSE INFORMATION

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<b>Course :</b>	Design 5 ARCHDES300
<b>Points Value:</b>	30 points
<b>Course Director:</b>	Sarosh Mulla: s.mulla@auckland.ac.nz
<b>Course Co-ordinator:</b>	Uwe Rieger: u.rieger@auckland.ac.nz
<b>Studio Teacher:</b>	Megan Rule/Fabio Namiki
<b>Contact:</b>	<a href="mailto:Meganrule@southpacificarchitecture.co.nz">Meganrule@southpacificarchitecture.co.nz</a> <a href="mailto:Fabionamiki@gmail.com">Fabionamiki@gmail.com</a>
<b>Location:</b>	TBC
<b>Hours:</b>	Monday and Thursday 1:00-5:00pm

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**For all further general course information see the ARCHDES300 COURSE OUTLINE in the FILES folder on CANVAS.**

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### SCAR CITY to SMART CITY

*"The perceived quality of life in buildings and urban spaces comes from the geometry (the form of structures on all scales, and their coherence), and how that geometry connects to the individual. It also catalyses interactions among people — if it is done successfully." Niko Salingaros, 2013*

#### CONTEXT

*Cities carry scars generated by structures that tell stories, and which often have an impact by segregating the urban fabric. The ways of dealing with it are diverse. It is possible to bring a new look to them, reframing them through the art of architecture and urbanism, potentializing their history, without necessarily denying it.*

*This studio is an opportunity to explore possibilities for visionary urban development in "Dominion Road flyover" through a sensible critical approach, research (data) and analysis of precedents. Students are to develop sensible critical thought.*

*Key words: urban infrastructure, community, adaptive use, urban revitalisation, smart cities*

*"Not enough complexity, and a city is dead; if it has complexity without sufficient organization, a city becomes chaotic and unliveable" Salingaros, Principle of urban structures (2005)*

## AAA VISIONARY COMPETITION – JUNE 2019

Auckland Architecture Association (AAA) as an architecture/ city advocacy organisation plans to open a visionary competition to examine the potential of how infrastructure can create a better sustainable living city with a focus on Dominion Road Flyover. <https://www.aaa.org.nz>

Stakeholders: government (council, local board), community (locals, society), private (developers)

### BACKGROUND

Dominion Road vehicle flyover at the junction of Dominion road and New North road was created from 1968 to link suburbs to central city with faster freeway automobile travel in the expansion of the Auckland city. The junction was previously a T intersection to new north road running parallel with main rail line once connecting Northland via West Auckland while Dominion road bisected the central Auckland isthmus once rural farmland punctuated by volcanic cones and streams. Before that Iwi had migrated across seasons and across the isthmus along trails and streams between their food baskets

Favouring commuter traffic, the flyover infrastructure has disrupted and dominated an urban grid, dividing the nearby communities.

Local council may consider in the longer term the possible reversal or removal of junction infrastructure.

The Flyover infrastructure site and vicinity offers scope for rethinking the city history and its future as smart, resilient or sustainable communities.

Selected critical text and research data will form a strategy basis

PLAY	Mobilise	Trends	Investigate sequence
PLOT	Mapping	Topography	Orientation
POPULATE	Minding	Tourists	Cultural history
PRODUCTION	Materialising	Tectonics	Circular Economy
PLAN	Multipurpose	Typology	Resilient Adaptable
PROPAGATE	Making	Representations	MID CRIT

PROGRAMME	Maligning	Transiting	Smart Mobility
PROCESS	Mining	Transforming	Recording
PLAIT	Manipulating	Trading	Revegetation
PLACE	Massaging	Trusting	Revisiting
PHILOSOPHY	Mystifying	Truse	Community Benefits
PRESENT	Manifesting	Trilogy project	FINAL CRIT

## TOPIC STRUCTURE AND CONTENT

### REVIEW

Week 1 Various writers, *Making Sense of Smart City*, AIA Architect, January 2019

### SITE MODEL

Week 1 Group Site Contour/Context Design Model ( Allocation/Build)  
Due Monday Week 2.

### FIELD TRIP

Week 3 Walking tour of selected examples in neighbourhood and site visit 3-4hrs Record and evaluation of contexts, sketches/text

### GUEST REPRESENTATIONS/ CRITS

Week 4/6 Stake holders – Local Board/User Group

Week 8/9 Engineers

Week 6/12 Advocates AAA

### AAA COMPETITION ( Due date in June TBA after semester)

Week 13 Goal is for all students to enter/present their diverse range of outcome Presentations to AAA Competition Exhibition in June and to generate discussion about possible solutions with stakeholders.

## SPECIAL NOTE:

**FIELD TRIP** Week 3 Monday/Thursday Site Visit including Dominion Road Flyover/Light Path/K Rd

**COST THE STUDENTS** Group Site Model Materials – Selected/allocated area of site base made to common scale( 1:200/1:500) from foamboard Students to supply and build by Week 2. Allow material cost of \$30 - \$50 per student site model base.

### VARIATION TO TEACHING HOURS OR LOCATIONS

Megan and Fabio will mainly split their time - Fabio Mondays, Megan Thursdays with several overlap days 1-3pm is core studio/group attendance time with 3-5pm mainly for individual work, except 1-5pm

*for special visits/crits. Both tutors available by email, and most correspondence to be during studio time*

<b>Week</b>	<b>Date</b>	<b>Event</b>
Week 1	Mon 4.3 Thu 7.3	12:00 All architecture meeting, rm 311 2:15 Design 5 staff presentations and studio ballot Design 5 Studio classes commence pepeha Overview/ 3D site model / Group work
Week 2	Mon 11.3 Thu 14.3	Site research, 3D model History/Context analysis 3d model finished / Site analysis presentation
Week 3	Mon 18.3 Thu 21.3	Site visit/ Site analysis Precedents an Precedents presentation (individual panel)
Week 4	Mon 25.3 Thu 28.3	Proposal/ strategy diagrams Proposal/ strategy presentation (one to one)
Week 5	Mon 1.4 Thu 4.4	Concept investigation Concept presentation
Week 6	Mon 8.4 Thu 11.4	Concept – preparation for Mid crits Design 5 Mid-semester crits
<b>MID-SEMESTER BREAK</b>		
Week 7	Tue 29.4 Thu 2.5	Evaluation and feedback (general and individual) Design development redrawing
Week 8	Mon 6.5 Thu 9.5	Design development 3D model exploration Design development 3D model presentation (all together)
Week 9	Mon 13.5 Thu 16.5	Design development technology Stakeholders/ Engineer presentation
Week 10	Mon 20.5 Thu 23.5	Design development programme Presentation (all together)
Week 11	Mon 27.5 Thu 30.5	Final feedback (one to one) Final presentation – 3D model
Week 12	Mon 3.6 Thu 6.6	Final presentation – 3D model Design 5 Final Studio Reviews

## RESOURCES

### JOURNALS

Various **Making Sense of Smart City** AIA Architect, January 2019

### CASE STUDIES/BUILDINGS

Diller, Scofidio Renfro, Piet Oudolf, James Corner, High Line, NYC, 2014

Parque Minhocao, Sao Paulo, Brazil.

Docklands, London, England.

Barcelona, Spain

Ponte Vecchio, Florence, Rialto, Venice, Italy

### BOOKS

Barley Nick *Breathing Cities the Architecture of Movement*, Birkhauser London 2000

Barrett, Michael Ed. *Coast, Country, Neighbourhood, City Isthmus, Six Point Press Matakana*, 2016

Burdett, Ricky; Sudjic, Deyan Ed. *Living in an Endless City*, Phaidon London 2011

Falconer, Garth *Living Paradox: A History of Urban Design Across Kainga, Towns and Cities in New Zealand*, Blue Acres Press Matakana 2015

Gumuchdjian, Phillip Ed. *Cities for a Small Planet* Richard Rogers, Faber Faber UK, 1997 [A Sustainable City Is](#)

Hide, Rory, *Future Practice Conversations from the Edge of Architecture*, Routledge NY, 2012, [Double Agent](#), Mel Dodd MUF, [The Civic Entrepreneur](#), Indy Johar 00:/, [Whole of Earth Architect](#), Reinier de Graaf, Laura Baird AMO

Johnson, Chris, *Greening Cities Landscaping the Urban Fabric*, GAP NSW, 2004 [Eight Ways to Green Cities](#)

Gehl, Jan. *Cities for People*, Island Press, 2010.

Gehl, Jan. Svarre, Birgitte - *How to Study Public Life*, Island Press, 2014.

Hartman Hattie, London 2012 *Sustainable Design Delivering a Games Legacy*, Wiley 2012

Hertzberger, Herman. *Lessons for Students in Architecture*, 010 Publisher, 2005.

Lynch, Kevin. *The Image of the City*, MIT Press, 1960.

Salingeros Nikos Angelos. *Unified Architectural Theory : Form, Language, Complexity : a Companion to Christopher Alexander's "The Phenomenon of Life: the Nature of Order, Book 1"*, Book 1, Sustasis Foundation, 2013.

Thomas, Mary Adam. *The Living Building Challenge: Roots and Rise of the World's Greenest Standard*, Ecotone Publishing, 2016.

Washburn, Alexandros, *The Nature of Urban Design: A New York Perspective on Residence*, Island Press Washington, 2013

### WEBSITES

[https://www.nzherald.co.nz/nz/news/article.cfm?c\\_id=1&objectid=12206725&ref=clavis](https://www.nzherald.co.nz/nz/news/article.cfm?c_id=1&objectid=12206725&ref=clavis) Bikelash

<http://schiff.co.nz/small-towns/>

<https://living-future.org/lbc/> <http://sustainablecoastlines.org/the-flagship/>

## REQUIRED PRODUCTION

Mid semester crit: Site overview /programme and material analysis shown in large cross or long section, 2 x common and private view 'atmospheric' drawings, and physical model[s]

*Site Scheme mapping diagrams scaled @1:200, @1:500*

*Site Scheme preliminary measured section concept design @ 1:200:1:500*

*Programme Typology developed design @1:100:1:50*

*Abstract Technology prototype preliminary design @1:10:1:50*

*Research Draft Summary (InDesign format to be supplied) A4 x 1*

Final Presentation: Requirements of Competition (TBA 3<sup>rd</sup> week ) including of Site Plans, Plans, Sections, Models, Views public and private spaces

*Site Scheme developed design, concept diagrams /models @1:200, @1:500*

*Programme Typology developed design @1:100:1:50*

*Technology prototype final production/model @1:10:1:50*

*Work Book that documents the design iterations prompted by the changing studio brief.*

*Prototype =physical model*

## ASSESSMENT & FEEDBACK

This course is assessed as 100% coursework. Conversational feedback is given throughout the semester. Written feedback, with indicative grading, is given at a date around the mid-point of the semester. All further information regarding assessment is available in the ARCHDES 300 Design 5 Course Outline (on Canvas).

## LEARNING OUTCOMES

General Course Outcomes: On successful completion of this course students should be able to:

- Theory: Show evidence of engagement with selected / prescribed areas of architectural theory and knowledge. Further, to show evidence of the exploration of the possible influence of this upon the development of architectural propositions.
- Architectonics: Demonstrate abilities to project, explore and develop the tectonic characteristics of the project through the creative engagement with material, structural or constructional propositions.
- Programme: Show evidence of engagement with identified cultural, social and functional positions as they might inform speculative architectural propositions.

- Performance: Show abilities to advance conceptual thinking through engagement with environmental and contextual conditions that could bear upon the project, and to examine the way in which the architecture may affect those same conditions in return.
- Form and space: Demonstrate abilities to develop speculative three dimensional architectural form and space.
- Media: Display skill in the communication and development of design propositions through the considered use of architectural media.

**Specific Topic Outcomes:** This studio topic will engage the general course outcomes in the following ways:

- *Theory: Using the provided reading list and a selected precedent, critically analyse and communicate an aspect or idea of a theory of interest through your design development.*
- *Architectonics: Demonstrate how selected material and context have influenced the design outcome of your architectural proposition and investigate how the considerations and restrictions of materiality/ context have both limited and enhanced the outcome of your project. (urban controls, local history, environmental issues, buildability)*
- *Programme: Use the design narrative from documented representations and data to develop your specific program as evidence of engagement with identified ecological, cultural, social and functional positions.*
- *Performance: Demonstrate an understanding of the impact your design has on city life and environment through diagrams.*
- *Form and space: Demonstrate abilities to develop speculative three dimensional architectural form and space with an informed understanding of spatial sensitivity ( proportion, human scale, light, etc )*
- *Media: 3D models both digital and physical, drawings, sketches and text. Demonstrate integration with proposed primary idea or speculation.*