Innovation & Design Programme
Faculty of Engineering

Bachelor of Arts (Architecture)
with Second Major in Innovation & Design

Cohort AY2021/2022

Modular Requirements	Modular Credits (MCs)
Common Curriculum	
GEA1000 Quantitative Reasoning with Data [1]	4
AR2524 Spatial Computational Thinking	4
GECxxxx Design, Technology and Society	4
GE: Critique and Expression [1]	4
GE: Singapore Studies [1]	4
GE: Communities and Engagement [1]	4
xxxx Creating Narratives	4
DTK1234A Design Thinking	4
EG1311 Design and Make	4
EG2501 Liveable Cities	4
IE2141 Systems Thinking and Dynamics	4
PF1101 Fundamentals of Project Management	4
HS1501 Artificial Intelligence and Society or EE2211 Introduction to Machine Learning	4
AR3102 Design 6 [2]	8
Sub-total for Common Curriculum	**60**
Major Requirements	
AR1101 Design 1	4
AR1102 Design 2	8
AR2101 Design 3	8
AR2102 Design 4	8
AR3101 Design 5	8
AR1329 Climate, Ecology & Architecture	4
AR2221 History and Theory of Southeast Asia Architecture	4
AR2222 History and Theory of Western Architecture	4
AR2328 Architectural Construction & Tectonics	4
AR3223 Introduction to Urbanism	4
AR3722 Sustainable Environmental System	4
Sub-total for Major Requirements	**60**
Unrestricted Electives	
Group A module for Second Major	4
Group B module for Second Major	4
Group C modules for Second Major (Innovation & Enterprise electives)	8
EG3301R DCP Project (over 2 consecutive semesters)	12
EG4301 DCP Dissertation or EG4301A Ideas to Start-up (over 2 consecutive semesters) [2]	12
Sub-total for Unrestricted Electives	**40**
Total	**160**

(updated 19 August 2021)

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Notes:

1   Students may read equivalent modules in USP, UTCP, and RVRC.

2   Subject to approval from home department, students may read EG4301/EG4301A in lieu of AR3102 to fulfil the Integrated Project requirement in the Common Curriculum (the remaining 4 MCs for EG4301/EG4301A remain as unrestricted elective).

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Recommended semester schedule for Cohort AY2021/2022

Semester 1	MCs	Semester 2	MCs
AR1101 Design 1	4	AR1102 Design 2	8
DTK1234A Design Thinking	4	AR2222 History and Theory of Western Architecture	4
EG1311 Design & Make	4	xxxx Creating Narratives	4
GEA1000 Quantitative Reasoning with Data	4	Group A module for Second Major	4
GE	4		
Sub-total	**20**	**Sub-total**	**20**

Semester 3	MCs	Semester 4	MCs
AR2101 Design 3	8	AR2102 Design 4	8
AR2221 History and Theory of Southeast Asia Architecture	4	AR1329 Climate, Ecology & Architecture	4
AR2328 Architectural Construction & Tectonics	4	AR2524 Spatial Computational Thinking	4
Group B module for Second Major	4	EG3301R DCP Project	6
Sub-total	**20**	**Sub-total**	**22**

Semester 5	MCs	Semester 6 – can be used for SEP	MCs
AR3101 Design 5	8	AR3101 Design 6	8
AR3223 Introduction to Urbanism	4	AR3722 Sustainable Environmental System	4
EG3301R DCP Project	6	Innovation & Enterprise Elective 1	4
GE *	4	GE *	4
Sub-total	**22**	**Sub-total**	**20**

Semester 7	MCs	Semester 8	MCs
EG4301 DCP Dissertation	6	EG4301 DCP Dissertation	6
Innovation & Enterprise Elective 2	4	GECxxxx Design, Technology and Society	4
EG2501 Liveable Cities	4	IE2141 Systems Thinking & Dynamics	4
HS1501 Artificial Intelligence and Society or EE2211 Introduction to Machine Learning	4	PF1101 Fundamentals of Project Management	4
Sub-total	**18**	**Sub-total**	**18**

* Students in UTCP and RVRC will need to overload in Semesters 2 to 4 in order to clear these modules earlier.

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Recommended semester schedule for Cohort AY2021/2022
(for students in year-long NOC programmes)

Semester 1	MCs	Semester 2	MCs
AR1101 Design 1	4	AR1102 Design 2	8
DTK1234A Design Thinking	4	AR2222 History and Theory of Western Architecture	4
EG1311 Design & Make	4	xxxx Creating Narratives	4
GEA1000 Quantitative Reasoning with Data	4	Group A module for Second Major	4
GE	4	GE	4
Sub-total	**20**	**Sub-total**	**24**

Semester 3	MCs	Semester 4	MCs
AR2101 Design 3	8	AR2102 Design 4	8
AR2221 History and Theory of Southeast Asia Architecture	4	AR1329 Climate, Ecology & Architecture	4
AR2328 Architectural Construction & Tectonics	4	AR2524 Spatial Computational Thinking	4
Group B module for Second Major	4	EG3301R DCP Project	6
GE	4		
Sub-total	**24**	**Sub-total**	**22**

Semester 5	MCs	Semester 6 – NOC	MCs
AR3101 Design 5	8		
AR3223 Introduction to Urbanism	4		
EG2501 Liveable Cities	4	NOC	
HS1501 Artificial Intelligence and Society or EE2211 Introduction to Machine Learning	4		
EG3301R DCP Project	6		
Sub-total	**26**	**Sub-total**	**20**

Semester 7 – NOC	MCs	Semester 8	MCs
		AR3101 Design 6	8
		AR3722 Sustainable Environmental System	4
NOC		GECxxxx Design, Technology and Society	4
		IE2141 Systems Thinking & Dynamics	4
		PF1101 Fundamentals of Project Management	4
Sub-total	**20**	**Sub-total**	**24**

A year-long NOC programme comprises the following modules:
- TR3201N Entrepreneurship Practicum (8 MCs) – replaces EG4301 (4 MCs out of 12 MCs) and UE (4 MCs)
- TR3202N Start-up Internship Programme (12 MCs) – counted as UE (12 MCs)
- TR3203N Start-up Case Study and Analysis (8 MCs) – replaces EG4301 (8 MCs out of 12 MCs)
- Entrepreneurship courses (up to 12 MCs) – replaces Innovation & Enterprise electives (up to 8 MCs) while the rest are counted as UE

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Recommended semester schedule for Cohort AY2021/2022
(for students in one-semester NOC programmes)

Semester 1	MCs	Semester 2	MCs
AR1101 Design 1	4	AR1102 Design 2	8
DTK1234A Design Thinking	4	AR2222 History and Theory of Western Architecture	4
EG1311 Design & Make	4	xxxx Creating Narratives	4
GEA1000 Quantitative Reasoning with Data	4	Group A module for Second Major	4
GE	4	GE	4
Sub-total	**20**	**Sub-total**	**24**

Semester 3	MCs	Semester 4	MCs
AR2101 Design 3	8	AR2102 Design 4	8
AR2221 History and Theory of Southeast Asia Architecture	4	AR1329 Climate, Ecology & Architecture	4
AR2328 Architectural Construction & Tectonics	4	AR2524 Spatial Computational Thinking	4
Group B module for Second Major	4	EG3301R DCP Project	6
GE	4		
Sub-total	**24**	**Sub-total**	**22**

Semester 5	MCs	Semester 6 – NOC	MCs
AR3101 Design 5	8		
AR3223 Introduction to Urbanism	4	NOC	
IE2141 Systems Thinking & Dynamics	4		
EG3301R DCP Project	6		
Sub-total	**22**	**Sub-total**	**20**

Semester 7	MCs	Semester 8	MCs
EG4301 DCP Dissertation	6	EG4301 DCP Dissertation	6
PF1101 Fundamentals of Project Management	4	AR3101 Design 6	8
EG2501 Liveable Cities	4	AR3722 Sustainable Environmental System	4
HS1501 Artificial Intelligence and Society or EE2211 Introduction to Machine Learning	4	GECxxxx Design, Technology and Society	4
Sub-total	**18**	**Sub-total**	**22**

A one-semester NOC programme comprises the following modules:
- TR3202S Start-up Internship Programme (12 MCs) – counted as UE (12 MCs)
- TR3204 Entrepreneurship Practicum (4 MCs) – replaces Innovation & Enterprise Elective 1
- Entrepreneurship course (4 MCs) – replaces Innovation & Enterprise Elective 2

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