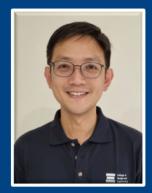


Introduction to 311 program between NUS and Partner University



Director NUS Center for Protective Technology

Email: leonghien@nus.edu.sg

Contents

- Introduction to NUS CEE Department
- Overview of 311 program
- Program requirements
- Fees and expenses
- Timeline
- NUS MSc(CE) Program

Overview of NUS Civil & Environmental Engineering (CEE)

	QS Ranking	QS Ranking	Times Higher Education Ranking
Subject	Civil and Structural Engineering	Environmental Sciences	Engineering and Technology
2024	4	9	9
2023	4	10	8
2022	3	10	10



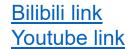


3+1+1 Program

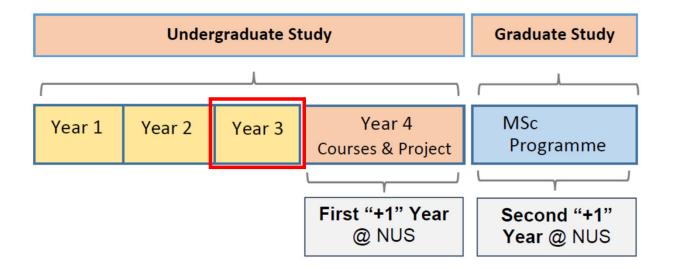
Overseas experience in a familiar environment

- Exposure to a different study environment
- Work with quality professors in a top university
- Network with future international colleagues
- Get an NUS MSc (coursework) degree





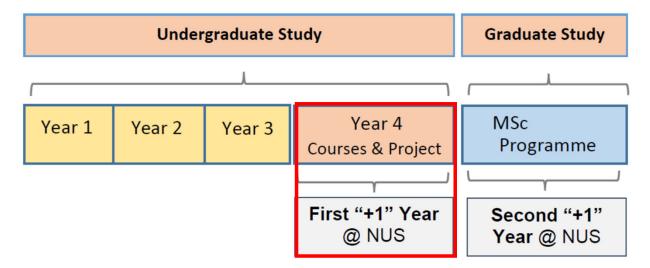
NUS 3+1+1 Program



Year 3 candidates from Partner University 合作院校第三年本科生

- Good academic standing 良好的学术背景
- Meet NUS English requirement (IELTS >= 6.0 or TOEFL >= 85) 达到NUS录取英语要求

NUS 3+1+1 Program



First +1 year at NUS

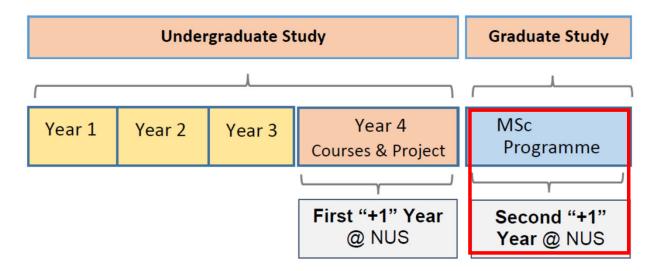
- 16 units of graduate courses 16学分研究生课程
- Takes a Final Year Project (FYP) 参
- Graduate from Partner University 毕业

参与毕业设计

/ 毕业自合作院校

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NUS 3+1+1 Program



Second +1 year at NUS

- 311 program: Transfer up to <u>10</u> units of courses to MSc
- Complete remaining 30 units of courses to graduate with a . NUS MSc degree
- 311项目:可以转入10个学分 进入MSc阶段
 - 完成剩下的30学分即可获得 NUS MSc学位

NUS curriculum and details

MSc(CE)

<u>https://cde.nus.edu.sg/cee/graduate/coursework-based-programmes/msc-ce/</u>

Fees (first +1 year)

Item	Fees (S\$)	Comments
Courses (16 units)	21,241.48	4 courses of 4 units each\$\$5,310.37 per course
Final Year Project (Research fees)	3,920.00	 2 semesters of FYP
Miscellaneous fees	426.12	
Total	25,587.60	

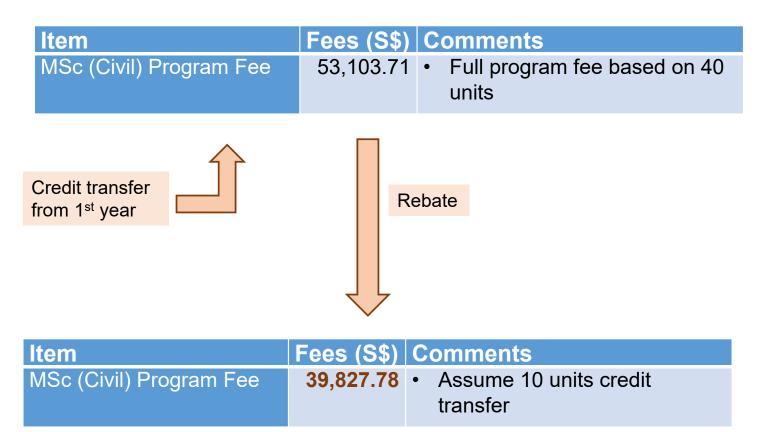
Correct as of Nov 2024. Please refer to the NUS CEE website for the most updated fee.

Fees (second +1 year)

Item	Fees (S\$)	Comments
MSc (Civil) Program Fee	53,103.71	Full program fee based on 40
		units

Correct as of Nov 2024. Please refer to the NUS CEE website for the most updated fee.

Fees (second +1 year)





• S\$1,600 – S\$2,500 per month

Accommodation + Food + Transportation

新加坡留学生一个月多少钱

2022-09-20 16:13:54 来源: 中国教育在线

去往新加坡留学的学生注意了,除了要准备留学的学费之外,同学们还要了解一下当地的生活消费水平,下 面小编就给大家分析一下新加坡留学生一个月多少钱,以便后期准备好资金!



新加坡留学生一个月生活费

新加坡留学生活费一个月需要1600-2500元新币左右,生活费包括住宿费、饮食费、交通费、通讯费等,其 中住宿费每月需要500-1500新币,住宿费因地段、环境、配套设施、居住人数等因素而定。

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https://www.eol.cn/waiyu/news/2022092076745.html



Typical Timeline

Jan – Feb	Year 3 students to apply to home university coordinator for 311 program	
Mar	 NUS-CEE process application results and inform partner university 	
21 Mar – 10 Apr	 Online application in NUS portal by selected students 	
May - Jun	 Students receive official NUS offer, onboarding processes 	

Get the following documents ready for submission (by end Feb)

- Valid passport (minimum validity until end of May 2026)
- English test results (IELTS >= 6.0 or TOEFL >= 85), test taken after 21 Mar 2023 only (results have 2-years validity period)
- Latest transcript (typically 5th semester/mid of 3rd year), English version

MSc (Civil) Program

 Many established professional engineers as co-lecturers, together with award winning NUS professors

知名的专业工程师与新加坡国立大学教授共同授课

 Rigorous training and hands-on experience to establish connections between theory and practice

严格的训练和实践经验,建立理论与实践之间的联系

Customise your MSc degree

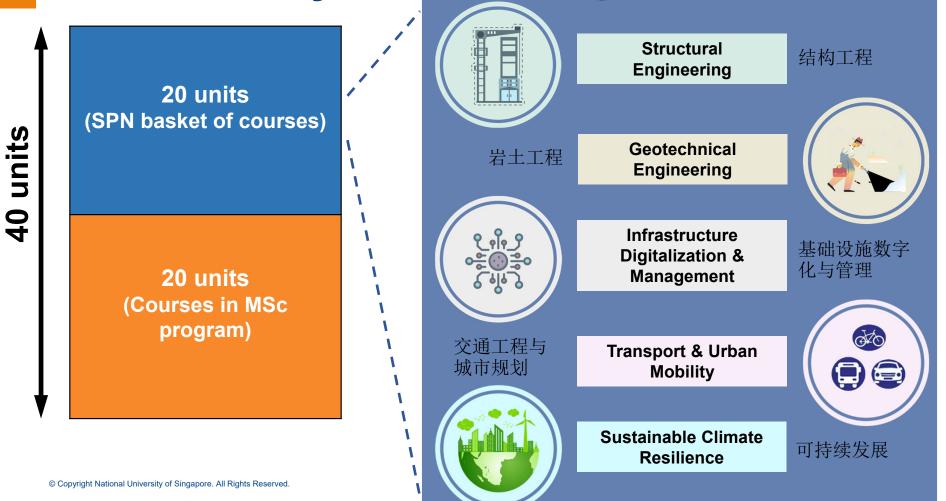
20 units (SPN basket of courses)

20 units (Courses in MSc program)

- Complete a total of 40 units ^{总共完成40}学分课程
- Customization based on personal interests and professional needs 根据个人兴趣及专业需求个性化定制
- Graduate with a MSc(CE) degree with specialization

获取授课型硕士专业学位

Customise your MSc degree



19

Global recognition by employers

调查显示,雇主们倾向于寻找具有领导能力以及能 够展现社会影响力的大学毕业生。团队协作能力与 合作精神,也同样受到各国雇主的重视。 《泰晤士报高等教育特辑》(Times Higher Education) 2023年全球大学就业力排名 Global Employment University and Survey (GEURS)

I I MARKEN IN	35	32	南洋理工大学
	10	10	耶鲁大学
	9	8	新加坡国立大学
	8	6	牛津大学
	7	7	东京大学
	6	9	普林斯顿大学
	5	3	哈佛大学
	4	4	剑桥大学
	3	5	斯坦福大学
	2	1	麻省理工学院
	1	2	加州理工学院
	2023	2022	大学

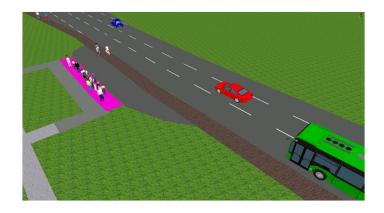
https://www.zaobao.com.sg/news/singapore/story20231124-1451978

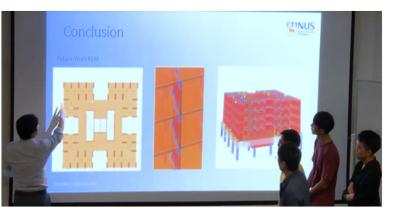
资料来源:全球大学就业力排名

B

Practical Training via Capstone Project 实践培训项目

- Integration of concepts learnt in specialization courses 整合专业课程中所学的概念
- Guidance from established industry practitioners 来自行业从业者的指导

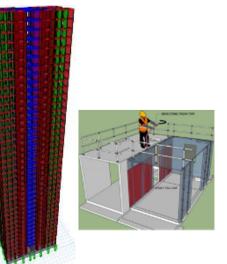












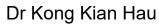
STRUCTURAL ENGINEERING CAPSTONE

Design a tall PPVC point block building with 3storey underground basement

SKILLS DEVELOPMENT

- Structural Materials
- Advanced Structural Design and Analysis
- Contemporary Construction Methods







Er Kang Jianhan Director KCL Consultants Pte Ltd

Software used

- ETABS : structural analysis of tall PPVC point block building
- Tekla Tedds : design of individual structural components
- SAP2000 : structural analysis and design of thick transfer plate supporting the PPVC modules







A/Prof Goh Siang Huat



Dr (Er) Victor Ong Chee Wee Managing Director ONE SMART Engineering Pte Ltd

Software used

 Plaxis 2D and Plaxis 3D : for the analysis of the retaining wall deflections and ground movements, and overall stability of the excavation support system.

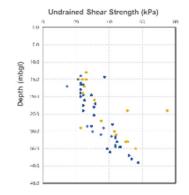
GEOTECHNICAL ENGINEERING CAPSTONE

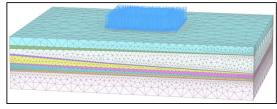
Design a tall PPVC point block building with 3storey underground basement

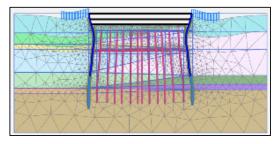
SKILLS DEVELOPMENT

- Site Investigation
- Ground Improvement
- Foundation Design
- Deep Excavation





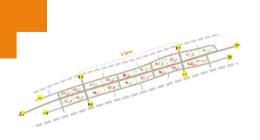






Site visit - lifting frame and PPVC modular unit





TRANSPORT & URBAN MOBILITY CAPSTONE

Design transportation infrastructure and mobility systems in a new town

SKILLS DEVELOPMENT

- Transportation Planning
- Traffic Simulation
- Transport Modelling
- Data Analytics



A/Prof Liu Yang



Dr Xie Litian Senior Data Scientist, URA

Software used

- PTV Vissim : for developing traffic simulation models
- Python, R : for data analytics, demand forecast and statistical modelling



MSc Civil Engineering



Dr Ong Pang Awn, Paul



Ms Jessie Ang Regional Technical Manager, Structures Trimble Solutions



Mr Marvin Garcia Senior Technical Consultant Trimble Solutions



Mr Dennis Acosta Technical Consultant Trimble Solutions



Er Zhang Li Ping Precast Concrete Specialist SoilBuild

INFRASTRUCTURAL DIGITALIZATION & MANAGEMENT

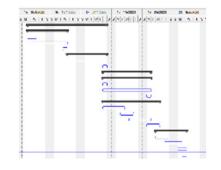
Design and build a nursing village using Integrated Digital Delivery tools and processes

SKILLS DEVELOPMENT

- Building Information
 Modelling
- Design & Analysis
- Prefabrication Technology
- Construction Automation
- Resource Planning
- Augmented Reality











Software used

- Tekla Structures : Structural BIM software
- Tekla Structural Designer : Design and analysis of structural components

INFRASTRUCTURAL DIGITALIZATION & MANAGEMENT

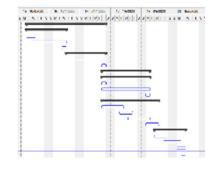
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SKILLS DEVELOPMENT

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 Modelling
- Design & Analysis
- Prefabrication Technology
- Construction Automation
- Resource Planning
- Augmented Reality









Industrial Internship (NEW) **THEY**

- Real-world training 实践训练
- Full time internship with leading companies in Singapore 在新加坡知名企业全职实习
- 1 Semester (16 weeks) 一学期
- Started from Jan 2024





MSc Student Exchange (NEW)

- I Semester MSc Student Exchange Program
- Starting Jan 2025







OSLO METROPOLITAN UNIVERSITY

In discussions with other established universities in USA and Europe

Questions?



新加坡国立大学土木与环境工程系 微信公众号



3+1+1 program Ms Sally sally.ng@nus.edu.sg



新加坡国立大学土木与环境工程系 微信公众号

Thank you