

Programme Overview and Subject Prerequisites for Singapore-Cambridge GCE 'A' Level



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Engineering/IT

Main Programme	Double Degree with		with 2nd Major in				
	Economics	Business	Business	Food Science & Technology	Pharmaceutical Engineering	Medical Biology	Society & Urban Systems
Renaissance Engineering							
Common Engineering							
Data Science and Artificial Intelligence							
Computer Science	Orange	Orange	Green				
Computer Engineering	Orange	Orange	Green				
Information Engineering and Media	Orange		Green				
Chemical and Biomolecular Engineering	Orange		Green	Green			
Bioengineering	Orange		Green	Green	Green		
Materials Engineering	Orange		Green		Green	Green	
Civil Engineering	Orange		Green				Green
Environmental Engineering	Orange		Green				Green
Electrical and Electronic Engineering	Orange		Green				Green
Mechanical Engineering	Orange		Green				Green
Aerospace Engineering	Orange		Green				
Maritime Studies:							
Maritime Studies			Green				
See Also							
Sciences:							
Biological Sciences				Green			
Chemistry				Green			

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Accountancy and Business

Main Programme	Double Degree with		with 2nd Major in	with 2nd Specialisation in	Special Programme with
	Accountancy	Business	Business	Predictive & Forensic Analytics	MSc in Financial Engineering
Accountancy		Orange		Light Blue	Green
Business	Orange				Green
See Also					
Mass Communication:					
Communication Studies			Green		
Computer Science and Engineering:					
Computer Science		Orange	Green		
Computer Engineering		Orange	Green		
Other Engineering/IT:			Green		

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Humanities, Arts, and Social Sciences

Main Programme	Double Major with						with 2nd Major in		Double Degree with
	Art History	Media Analytics	Psychology	Economics	Public Policy & Global Affairs	Linguistics & Multilingual Studies	Business	Biological Sciences	Economics
Mass Communication: Communication Studies							■		
Fine and Applied Arts: Art, Design and Media									
Humanities: Chinese									
English Literature	■								
History									
Linguistics and Multilingual Studies									
Philosophy									
Social Sciences: Economics		■	■		■				
Psychology		■		■		■		■	
Public Policy and Global Affairs									
Sociology									
See Also									
Sciences: Biological Sciences			■						
Mathematical Sciences				■					
Environmental Earth Systems Science					■				
Engineering/IT:									■

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Sciences

Main Programme	Double Major with			with 2nd Major in					
	Psychology	Economics	Public Policy & Global Affairs	Food Science & Technology	Biomedical Materials	Biomedical Structural Biology	Medicinal Chemistry & Pharmacology	Mathematical Sciences	Biological Sciences
Biological Sciences	■			■	■	■	■		
Biomedical Sciences and Chinese Medicine (Double Degree)				■					
Chemistry and Biological Chemistry				■					
Physics/Applied Physics								■	
Mathematical Sciences		■							
Environmental Earth Systems Science			■						
See Also									
Engineering/IT: Chemical and Biomolecular Engineering				■					
Bioengineering				■					
Social Sciences: Psychology									■

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Minimum Subject Requirements for Singapore-Cambridge GCE 'A' Level

PROGRAMME	MINIMUM SUBJECT REQUIREMENTS	SELECTION TEST/ INTERVIEW
RENAISSANCE ENGINEERING PROGRAMME		
<ul style="list-style-type: none"> • Renaissance Engineering Programme[¥] 	H2 Level pass in Mathematics and H2 Level pass in Physics/Chemistry/Biology/Computing and H1 Level/'O' Level pass in Physics/equivalent+	Yes
<p>¥ Programme leading to Bachelor of Engineering Science and Master of Science in Technology Management + H1 Level/'O' Level pass in Physics/equivalent is only applicable to applicants who have not read Physics at H2.</p>		

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PROGRAMME	MINIMUM SUBJECT REQUIREMENTS	SELECTION TEST/ INTERVIEW
COLLEGE OF ENGINEERING		
Common Engineering		
<ul style="list-style-type: none"> • Engineering^{^@} 	H2 Level pass in Mathematics and H2 Level pass in Physics/Chemistry/Biology/Computing and H1 Level/'O' Level pass in Physics/equivalent+	
<p>[^] The programme is also offered as a single degree programme with a Minor in Business. [@] Students who are undecided on their Engineering major may opt for Engineering (i.e. Common Engineering) at the point of application. All Common Engineering students will read a semester of engineering studies after which they will be streamed into either Civil Engineering, Electrical and Electronic Engineering, Environmental Engineering, Materials engineering or Mechanical Engineering at the end of Year 1, Semester 1. In all cases, admissions and streaming into an engineering major are merit-based. + H1 Level/'O' Level pass in Physics/equivalent is only applicable to applicants who have not read Physics at H2.</p>		

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PROGRAMME	MINIMUM SUBJECT REQUIREMENTS	SELECTION TEST/ INTERVIEW
COLLEGE OF ENGINEERING		
School of Chemical and Biomedical Engineering (SCBE)		
<ul style="list-style-type: none"> • Bioengineering^{*^} • Chemical and Biomolecular Engineering^{*^} • Bioengineering with a Second Major in Business • Chemical and Biomolecular Engineering with a Second Major in Business 	H2 Level pass in Mathematics and H2 Level pass in Physics/Chemistry/Biology/Computing and H1 Level/'O' Level pass in Physics/equivalent+	
<ul style="list-style-type: none"> • Bioengineering with a Second Major in Food Science and Technology • Chemical and Biomolecular Engineering with a Second Major in Food Science and Technology 	H2 Level pass in Mathematics and H2 Level pass in Physics/Chemistry/Biology/Computing and H1 Level/'O' Level pass in Physics/equivalent+	Yes
<ul style="list-style-type: none"> • Bioengineering with a Second Major in Pharmaceutical Engineering 	H2 Level pass in Mathematics and H2 Level pass in Physics/Chemistry/Biology/Computing and H1 Level/'O' Level pass in Physics/equivalent+	

- * The programme is also offered as a double degree programme with Economics.
[^] The programme is also offered as a single degree programme with a Minor in Business.
+ H1 Level/'O' Level pass in Physics/equivalent is only applicable to applicants who have not read Physics at H2.

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PROGRAMME	MINIMUM SUBJECT REQUIREMENTS	SELECTION TEST/ INTERVIEW
COLLEGE OF ENGINEERING		
School of Civil and Environmental Engineering (CEE)		
<ul style="list-style-type: none"> • Civil Engineering*^ • Environmental Engineering*^ • Civil Engineering with a Second Major in Business • Environmental Engineering with a Second Major in Business 	H2 Level pass in Mathematics and H2 Level pass in Physics/Chemistry/Biology/Computing and H1 Level/'O' Level pass in Physics/equivalent+	
<ul style="list-style-type: none"> • Civil Engineering with a Second Major in Society and Urban Systems • Environmental Engineering with a Second Major in Society and Urban Systems 	H2 Level pass in Mathematics and H2 Level pass in Physics/Chemistry/Biology/Computing and H1 Level/'O' Level pass in Physics/equivalent+	
<ul style="list-style-type: none"> • Maritime Studies § • Maritime Studies with a Second major in Business § 	H1 Level pass in Mathematics <i>or</i> 'O' Level/equivalent pass in Additional Mathematics and H1 Level/'O' Level pass in a Science subject	
<p>* The programme is also offered as a double degree programme with Economics. ^ The programme is also offered as a single degree programme with a Minor in Business. § Programme leading to Bachelor of Science degree + H1 Level/'O' Level pass in Physics/equivalent is only applicable to applicants who have not read Physics at H2.</p>		

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PROGRAMME	MINIMUM SUBJECT REQUIREMENTS	SELECTION TEST/ INTERVIEW
COLLEGE OF ENGINEERING		
School of Computer Science and Engineering (SCSE)		
<ul style="list-style-type: none"> • Computer Engineering*^ • Computer Engineering with a Second Major in Business • Business and Computer Engineering (Double Degree) 	H2 Level pass in Mathematics and H2 Level pass in Physics/Chemistry/Biology/Computing and H1 Level/'O' Level pass in Physics/equivalent+	
<ul style="list-style-type: none"> • Computer Science*^ • Computer Science with a Second Major in Business • Business and Computing (Double Degree) 	H2 Level pass in Mathematics and H2 Level pass in Physics/Chemistry/Biology/Computing	
<ul style="list-style-type: none"> • Data Science and Artificial Intelligence§^{NEW} 	H2 Level pass in Mathematics and H2 Level pass in Physics/Chemistry/Biology/Computing	
<p>* The programme is also offered as a double degree programme with Economics. ^ The programme is also offered as a single degree programme with a Minor in Business. + H1 Level/'O' Level pass in Physics/equivalent is only applicable to applicants who have not read Physics at H2. § Programme leading to Bachelor of Science degree</p>		

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PROGRAMME	MINIMUM SUBJECT REQUIREMENTS	SELECTION TEST/ INTERVIEW
COLLEGE OF ENGINEERING		
School of Electrical and Electronic Engineering (EEE)		
<ul style="list-style-type: none"> • Electrical and Electronic Engineering*[^] • Information Engineering and Media*[^] • Electrical and Electronic Engineering with a Second Major in Business • Information Engineering and Media with a Second Major in Business 	H2 Level pass in Mathematics and H2 Level pass in Physics/Chemistry/Biology/Computing and H1 Level/'O' Level pass in Physics/equivalent+	
<ul style="list-style-type: none"> • Electrical and Electronic Engineering with a Second Major in Society and Urban Systems 	H2 Level pass in Mathematics and H2 Level pass in Physics/Chemistry/Biology/Computing and H1 Level/'O' Level pass in Physics/equivalent+	
<p>* The programme is also offered as a double degree programme with Economics. [^] The programme is also offered as a single degree programme with a Minor in Business. + H1 Level/'O' Level pass in Physics/equivalent is only applicable to applicants who have not read Physics at H2.</p>		

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PROGRAMME	MINIMUM SUBJECT REQUIREMENTS	SELECTION TEST/ INTERVIEW
COLLEGE OF ENGINEERING		
School of Materials Science and Engineering (MSE)		
<ul style="list-style-type: none"> • Materials Engineering*[^] • Materials Engineering with a Second Major in Business 	H2 Level pass in Mathematics and H2 Level pass in Physics/Chemistry/Biology and H1 Level/'O' Level pass in Physics/equivalent+	
<ul style="list-style-type: none"> • Materials Engineering with a Second Major in Pharmaceutical Engineering 	H2 Level pass in Mathematics and H2 Level pass in Physics/Chemistry/Biology and H1 Level/'O' Level pass in Physics/equivalent+	
<ul style="list-style-type: none"> • Materials Engineering with a Second Major in Medical Biology 	H2 Level pass in Mathematics and H2 Level pass in Physics/Chemistry/Biology and H1 Level/'O' Level pass in Physics/equivalent+	
<p>* The programme is also offered as a double degree programme with Economics. [^] The programme is also offered as a single degree programme with a Minor in Business. + H1 Level/'O' Level pass in Physics/equivalent is only applicable to applicants who have not read Physics at H2.</p>		

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PROGRAMME	MINIMUM SUBJECT REQUIREMENTS	SELECTION TEST/ INTERVIEW
COLLEGE OF ENGINEERING		
School of Mechanical and Aerospace Engineering (MAE)		
<ul style="list-style-type: none"> • Aerospace Engineering*[^] • Mechanical Engineering*[^] • Aerospace Engineering with a Second Major in Business • Mechanical Engineering with a Second Major in Business 	H2 Level pass in Mathematics and H2 Level pass in Physics/Chemistry/Biology/Computing and H1 Level/'O' Level pass in Physics/equivalent+	
<ul style="list-style-type: none"> • Mechanical Engineering with a Second Major in Society and Urban Systems 	H2 Level pass in Mathematics and H2 Level pass in Physics/Chemistry/Biology/Computing and H1 Level/'O' Level pass in Physics/equivalent+	
<p>* The programme is also offered as a double degree programme with Economics. [^] The programme is also offered as a single degree programme with a Minor in Business. + H1 Level/'O' Level pass in Physics/equivalent is only applicable to applicants who have not read Physics at H2.</p>		

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PROGRAMME	MINIMUM SUBJECT REQUIREMENTS	SELECTION TEST/ INTERVIEW
COLLEGE OF SCIENCE		
School of Biological Sciences (SBS)		
• Biological Sciences[^]	H1 Level pass in Mathematics and H2 Level pass in Physics/Chemistry/Biology	On a selective basis
• Biological Sciences and Psychology (Double Major)^{NEW}	A good grade in H1 Level Mathematics and H2 Level pass in Physics/Chemistry/Biology and a good grade in General Paper/Knowledge & Inquiry	On a selective basis
• Biological Sciences with a Second Major in Food Science and Technology	H2 Level pass in Mathematics and H2 Level pass in Physics/Chemistry/Biology; <i>or</i> H1 Level pass in Mathematics and any two H2 Level passes in Physics/Chemistry/Biology	On a selective basis
• Biological Sciences with a Second Major in Medicinal Chemistry and Pharmacology^{NEW}	H1 Level pass in Mathematics and H2 Level pass in Chemistry	On a selective basis
• Biological Sciences with a Second Major in Biomedical Structural Biology	H1 Level pass in Mathematics and H2 Level pass in Physics/Chemistry/Biology	On a selective basis
• Biological Sciences with a Second Major in Biomedical Materials	H2 Level pass in Mathematics and H2 Level pass in Physics/Chemistry/Biology and H1 Level/'O' Level pass in Physics/equivalent+	On a selective basis
• Biomedical Sciences and Chinese Medicine (Double Degree)	H1 Level pass in Mathematics and H2 Level pass in Physics/Chemistry/Biology and 'O' Level pass in Chinese	On a selective basis
<p>[^] The programme is also offered as a single degree programme with a Minor in Business. ⁺ H1 Level/'O' Level pass in Physics/equivalent is only applicable to applicants who have not read Physics at H2.</p>		

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PROGRAMME	MINIMUM SUBJECT REQUIREMENTS	SELECTION TEST/ INTERVIEW
COLLEGE OF SCIENCE		
School of Physical and Mathematical Sciences (SPMS)		
• Chemistry and Biological Chemistry	H2 Level pass in Chemistry and H2 Level pass in Mathematics/Physics	
• Chemistry and Biological Chemistry with a Second Major in Food Science and Technology	H2 Level pass in Chemistry and H2 Level pass in Mathematics/Physics	Yes
• Mathematical Sciences Σ	H2 Level pass in Mathematics	
• Mathematical Sciences and Economics (Double Major)^{NEW}	H2 Level pass in Mathematics and a good grade in General Paper/Knowledge & Inquiry	On a selective basis
• Physics/Applied Physics • Physics with a Second Major in Mathematical Sciences	H2 Level pass in Physics and Mathematics	
<p>Σ The programme is also offered as a single degree programme with a Minor in Finance.</p>		

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PROGRAMME	MINIMUM SUBJECT REQUIREMENTS	SELECTION TEST/ INTERVIEW
COLLEGE OF SCIENCE		
Asian School of the Environment (ASE)		
• Environmental Earth Systems Science	H1 Level pass in Mathematics and H2 Level pass in Physics/Chemistry/Biology/Computing/Economics	On a selective basis
• Environmental Earth Systems Science and Public Policy & Global Affairs (Double Major) ^{NEW}	H1 Level pass in Mathematics and H2 Level pass in Physics/Chemistry/Biology/Computing/Economics and a good grade in General Paper/Knowledge & Inquiry/H1 Level History/English Literature/Geography	On a selective basis

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PROGRAMME	MINIMUM SUBJECT REQUIREMENTS	SELECTION TEST/ INTERVIEW
LEE KONG CHIAN SCHOOL OF MEDICINE		
• Medicine	<p>H2 Level pass in Chemistry and H2 Level pass in Biology/Physics</p> <p>In addition, applicants are required to submit the following materials for admissions assessment:</p> <ol style="list-style-type: none"> 1. Academic results 2. Personal statement 3. Details of exceptional talents and/or outstanding achievements beyond school co-curricular activities (if the applicant would like to be considered under Discretionary Admissions) 4. Two online reference reports (The online reference report is in question and answer format. The questions will take no more than 10 minutes to complete. Instructions and login details will be provided to applicants who will in turn forward the login information to their referees.) <p>Applicants may submit additional documents to support their applications.</p> <p>BioMedical Admissions Test (BMAT) Applicants will have to register for the Biomedical Admissions Test (BMAT) and take the BMAT as part of the criteria for entry to the Lee Kong Chian School of Medicine (LKCmedicine) programme. Applicants take the BMAT around November each year, prior to their application to LKCmedicine. Only results of the BMAT taken in the 12-month period prior to admission to LKCmedicine will be considered in the selection process. For more details on the BMAT, please refer to http://www.bmat.org.uk.</p> <p>For further details, please visit http://www.lkcmedicine.ntu.edu.sg/admissions/pages/index.aspx.</p>	Yes

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PROGRAMME	MINIMUM SUBJECT REQUIREMENTS	SELECTION TEST/ INTERVIEW
COLLEGE OF HUMANITIES, ARTS, AND SOCIAL SCIENCES		
School of Art, Design and Media (ADM)		
• Art, Design and Media	<p>'O' Level/equivalent pass in Mathematics and a good grade in General Paper/Knowledge & Inquiry</p> <p>In addition, applicants are required to produce and submit the following materials for admissions assessment:</p> <ol style="list-style-type: none"> 1. A Portfolio 2. Personal Statement and Writing Samples 3. A Creative Project 4. Three Visuals <p>For specific submission instructions and details, please refer to ADM Admissions Requirements.</p>	

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PROGRAMME	MINIMUM SUBJECT REQUIREMENTS	SELECTION TEST/ INTERVIEW
COLLEGE OF HUMANITIES, ARTS, AND SOCIAL SCIENCES		
School of Humanities (SoH)		
• Chinese	Pass in H2 Level Chinese <i>or</i> Good pass in H1 Level Chinese/China Studies in Chinese <i>or</i> Good pass in 'O' Level Higher Chinese <i>or</i> Distinction in 'O' Level Chinese	On a selective basis
• English Literature	A good grade in General Paper/Knowledge & Inquiry/H1 Level English Literature/H2 Level History	Yes
• History	A good grade in General Paper/Knowledge & Inquiry/H1 Level History/English Literature/Geography	Yes
• Linguistics and Multilingual Studies	A good grade in General Paper/Knowledge & Inquiry/H1 Level English Literature/History/Geography/Mother Tongue Language	Yes
• Philosophy	A good grade in General Paper/Knowledge & Inquiry/H1 Level English Literature/H2 Level History	Yes
• English Literature and Art History (Double Major) †	A good grade in General Paper/Knowledge & Inquiry/H1 Level English Literature/H2 Level History	Yes
† The programme is offered as a single degree programme with two distinct majors. Each Major carries equal weight in the degree.		

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PROGRAMME	MINIMUM SUBJECT REQUIREMENTS	SELECTION TEST/ INTERVIEW
COLLEGE OF HUMANITIES, ARTS, AND SOCIAL SCIENCES		
School of Social Sciences (SSS)		
• Economics	A good grade in H1 Level Mathematics and a good grade in General Paper/Knowledge & Inquiry	On a selective basis
• Psychology	A good grade in H1 Level Mathematics and a good grade in General Paper/Knowledge & Inquiry	On a selective basis
• Psychology with a Second Major in Biological Sciences	A good grade in H1 Level Mathematics and a good grade in General Paper/Knowledge & Inquiry and H1 Level pass in Physics/Chemistry/Biology	On a selective basis
• Public Policy and Global Affairs	A good grade in General Paper/Knowledge & Inquiry/H1 Level History/English Literature/Geography	On a selective basis
• Sociology	A good grade in General Paper/Knowledge & Inquiry	On a selective basis
• Economics and Media Analytics (Double Major) †	A good grade in H2 Level Mathematics and a good grade in General Paper/Knowledge & Inquiry For the latter, at least B in order to be considered	On a selective basis
• Economics and Psychology (Double Major) †	A good grade in H2 Level Mathematics and a good grade in General Paper/Knowledge & Inquiry	On a selective basis
• Economics and Public Policy & Global Affairs (Double Major) †	A good grade in H2 Level Mathematics and a good grade in General Paper/Knowledge & Inquiry and a good grade in H1 Level History/English Literature/Geography	On a selective basis
• Psychology and Media Analytics (Double Major) †	A good grade in H1 Level Mathematics and a good grade in General Paper/Knowledge & Inquiry For the latter, at least B in order to be considered	On a selective basis
• Psychology and Linguistics & Multilingual Studies (Double Major) †	A good grade in H1 Level Mathematics and a good grade in General Paper/Knowledge & Inquiry and a good grade in H1 Level English Literature/History/Geography/ Mother Tongue Language	Yes
† The programme is offered as a single degree programme with two distinct majors. Each Major carries equal weight in the degree.		

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PROGRAMME	MINIMUM SUBJECT REQUIREMENTS	SELECTION TEST/ INTERVIEW
COLLEGE OF HUMANITIES, ARTS, AND SOCIAL SCIENCES		
Wee Kim Wee School of Communication and Information (WKWSCI)		
• Communication Studies	At least a B grade in General Paper/Knowledge & Inquiry and H1 Level pass in Mathematics <i>or</i> 'O' level/equivalent pass in Additional Mathematics β	On a selective basis
• Communication Studies with a Second Major in Business	H1 Level pass in Mathematics <i>or</i> 'O' level/equivalent pass in Additional Mathematics and at least a B grade in General Paper/Knowledge & Inquiry	On a selective basis
β The requirement of Mathematics will take effect from Academic Year 2019-20. For AY2018-19, successful applicants may be advised to take up a Mathematics elective upon matriculation into the University.		

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PROGRAMME	MINIMUM SUBJECT REQUIREMENTS	SELECTION TEST/ INTERVIEW
NANYANG BUSINESS SCHOOL		
• Accountancy \dagger α • Business \dagger • Accountancy and Business (Double Degree) Special Programme: • Bachelor of Accountancy and Master of Science in Financial Engineering (MFE) • Bachelor of Business and Master of Science in Financial Engineering (MFE)	H1 Level pass in Mathematics <i>or</i> 'O' level/equivalent pass in Additional Mathematics	On a selective basis
\dagger The programme is also offered as a single degree programme with a Minor in Strategic Communication. α The programme is also offered as a single degree programme with a Second Specialisation in Predictive and Forensic Analytics. NEW		

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PROGRAMME	MINIMUM SUBJECT REQUIREMENTS	SELECTION TEST/ INTERVIEW
SPORT SCIENCE AND MANAGEMENT		
• Sports Science and Management \S	H1 Level pass in Mathematics <i>or</i> 'O' level/equivalent pass in Additional Mathematics	On a selective basis
\S Programme leading to Bachelor of Science degree		

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PROGRAMME	MINIMUM SUBJECT REQUIREMENTS	SELECTION TEST/ INTERVIEW
NATIONAL INSTITUTE OF EDUCATION		
• Arts (Education) \blacktriangle • Science (Education) \blacktriangle	2 subjects at H1 Level, including a pass in General Paper/Knowledge & Inquiry, at one sitting and Pass in Mathematics at H1 Level/'O' Level Pass in at least 5 subjects, including English as a First Language at 'O' Level	Yes
\blacktriangle These degree programmes offer many courses which may require further subject prerequisites. Please refer to the National Institute of Education (NIE) website for details.		

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