

# Helmsman

Future's Here Today

Secondary 2

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Bedok Green Secondary School  
ECG Committee (CCE Department)

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## SECTION 1 GENERAL INFORMATION

### 1.1 Subject Combination Selection Exercise (SCSE)

The Subject Combination Selection Exercise (SCSE) is conducted annually by the school to allow all Secondary Two students to apply for admission to Secondary Three subjects offered by the school.

### 1.2 Timeline for SCSE

1.3 Selection Period for SCSE	Release of SCSE Results	Appeal/Transfer after Posting Results Release
Term 4 from <b>17 Oct to 28 Oct 2022</b>	Results will be announced by <b>3 Nov 2022, 2pm</b> via students' Gmail	Appeals are to be submitted to General Office by <b>8 Nov 2022, 5pm</b> . Results of appeals will be announced via students' Gmail by <b>14 Nov 2022, 2pm</b> .

### School's Considerations

The school considers the following (not in any order of preference) when allocating subjects.

- ❖ Merit (Overall Performance + Performance in Specific Subject)
- ❖ Students' Choice
- ❖ Teachers' Recommendations
- ❖ Availability of Places for each subject combination
- ❖ Certain subjects may not be offered after the subject selection exercise if there are **insufficient students** to start a class
- ❖ The **School reserves the right** to allocate students with relevant subjects if they do not meet the criteria of their selection.

### 1.4 Announcement of Sec 3 class allocation

Sec 3 class allocation will be announced via Parent Gateway, students' Gmail and notice board at the school canteen by **5 December 2022, 2pm**.

## SECTION 2 SUBJECTS AND ELECTIVES OFFERED UNDER SCSE

### 2.1 Subjects and Electives offered (Express – 7 subjects)

Express	Subjects offered	Qualifying Criteria
<b>Subjects offered to all</b>	English Language	Not Applicable
	Mother Tongue Language	
	Elementary Mathematics	
<b>Humanities (choose one)</b>	Combined Humanities (Social Studies, Elective Geography)	Pass in Geography
	Combined Humanities (Social Studies, Elective History)	Pass in History
	Combined Humanities (Social Studies, Elective Literature)	Pass in Literature and EOY SA2 G3 English Language *Common Paper
<b>Science (choose one)</b>	Pure Chemistry & Pure Physics	65% and above for EOY SA2 G3 Science *Common Paper
	Pure Chemistry & Pure Biology	65% and above for EOY SA2 G3 Science *Common Paper
	Combined Science (Chemistry, Physics)	Not Applicable
	Combined Science (Chemistry, Biology)	Not Applicable
<b>Elective 1 (Not applicable for students who take pure science)</b>	Principles of Accounts	Pass in G3 Mathematics *Common Paper
	Art	Pass in Art
	Exercise and Sports Science	Pass in Physical Proficiency Test
	Design and Technology	Pass in Design and Technology
	Nutrition and Food Sciences	Pass in Food and Consumer Education
<b>Maximum one per subject</b>		
<b>Elective 2 (Maximum one per subject)</b>	Additional Mathematics	65% and above for EOY SA2 G3 Mathematics *Common Paper
	Principles of Accounts	Pass in EOY SA2 G3 Mathematics *Common Paper
	Pure History [cannot be taken with Combined Humanities (Social Studies, Elective History)]	65% and above for History
	Pure Geography [cannot be taken with Combined Humanities (Social Studies, Elective Geography)]	65% and above for Geography

\*Common End-of-Year examination papers taken by both BGSS and PYSS students

Note : Students will not read 7<sup>th</sup> subject if he/she does not meet the subject criteria

## SECTION 2 SUBJECTS AND ELECTIVES OFFERED UNDER SCSE

### 2.2 Subjects and Electives offered (Normal Academic - 6 Subjects)

Normal Academic	Subjects offered	Qualifying Criteria
<b>Subjects offered to all</b>	English Language	Not Applicable
	Mother Tongue Language	
	Elementary Mathematics	
<b>Humanities (choose one)</b>	Combined Humanities (Social Studies, Elective Geography)	Pass in Geography
	Combined Humanities (Social Studies, Elective History)	Pass in History
	Combined Humanities (Social Studies, Elective Literature)	Pass in Literature and EOY SA2 G2 English Language (*Common Paper)
<b>Science (choose one)</b>	Combined Science (Chemistry, Physics)	Not Applicable
	Combined Science (Chemistry, Biology)	
<b>Electives (choose one )</b>	Additional Mathematics [Students who offer Additional Mathematics must also offer Out-of-Stream (Express) Mathematics.]	<b>For SBB students:</b> 60% and above for EOY SA2 G3 Mathematics (*Common Paper) <b>For non-SBB students:</b> 65% and above for EOY SA2 G2 Mathematics (*Common Paper)
	Principles of Accounts	Pass in EOY G2 Mathematics ( *Common Paper)
	Art	Pass in Art
	Exercise and Sports Science	70% and above in Physical Proficiency Test or 5/5 in either the Individual or Team Assessment
	Design and Technology	Pass in Design and Technology
	Nutrition and Food Sciences	Pass in Food and Consumer Education
<b>Out of Stream subjects (Express level) offered at 3NA</b>  <b>[Non-SBB Students must attain 50% and above for Overall Result at Sec 2NA.</b>	English Language	75% and above for English Language
	Chinese Language	75% and above for Chinese Language
	Malay Language	75% and above for Malay Language
	Tamil Language	Based on the designated school or Language Centre's recommendation
	Mathematics	70% and above for Mathematics
	Science (Chemistry, Physics)	75% and above for average of Sec 1 and Sec 2 Science overall marks
	Science (Chemistry, Biology)	
	Combined Humanities (Social Studies, Elective History)	70% and above for History
	Combined Humanities (Social Studies, Elective Geography)	70% and above for Geography
	Combined Humanities (Social Studies, Elective Literature)	70% and above for Literature
	Exercise and Sports Science	70% and above in Physical Proficiency Test or 5/5 in either the Individual or Team Assessment

\*Common End-of-Year examination papers taken by both BGSS and PYSS students

## SECTION 2 SUBJECTS AND ELECTIVES OFFERED UNDER SCSE

### 2.3 Subjects and Electives offered (Normal Technical - 6 Subjects)

Normal Technical	Subjects offered	Qualifying Criteria
<b>Subjects offered to all</b>	English Language	Not Applicable
	Mother Tongue Language	
	Mathematics	
	Science	
	Computer Applications	
<b>Electives (choose one )</b>	Elements of Business Skills	Pass in English Language
	Art	Pass in Art
	Design and Technology	Pass in Design and Technology
	Smart Electrical Technology	Pass in Science
	Food Studies	Pass in Food and Consumer Education
<b>Out of Stream subjects (Normal Academic level) offered at 3NT</b>  <b>[Non-SBB Students must achieve 50% and above for Overall Result at Secondary 2NT]</b>	English Language	75% and above for the English Language
	Mathematics	75% and above for Mathematics
	Science (Chemistry & Physics)	75% and above for the average of Sec 1 and Sec 2 Science overall marks
	Science (Chemistry & Biology)	

### 3.1 Subject and Elective Descriptions

The subjects and electives available are

#### Subjects

- English Language
- Mother Tongue Language
- Elementary Mathematics
- Pure Physics
- Pure Chemistry
- Pure Biology
- Combined Science (Physics & Chemistry)
- Combined Science (Chemistry & Biology)
- Humanities (Social Studies, Geography)
- Humanities (Social Studies, History)
- Humanities (Social Studies, Literature)
- Computer Application [For N(T)]
- Science [For N(T)]

#### Electives

- Additional Mathematics [For Exp & N(A)]
- Principles of Accounts [For Exp & N(A)]
- Art [For all streams]
- Exercise and Sports Science [For Exp & N(A)]
- Design and Technology [For all streams]
- Elements of Business Skills [For N(T)]
- Nutrition and Food Sciences [For Exp & N(A)]
- Food Studies [For N(T)]
- Smart Electrical Technology [For N(T)]
- Pure History [For Exp]
- Pure Geography [For Exp]

Students may consult the Heads of Department or Subject/Level Heads if they have any questions regarding the electives or the school ECGC Ms Samantha Woo if they need advice on the post-secondary courses and options.

### SECTION 3 SUBJECT AND ELECTIVE DESCRIPTIONS

#### ADDITIONAL MATHEMATICS (EXP/NA)

##### OVERVIEW

Additional Mathematics is slightly more in depth as compared to Mathematics, with additional topics in Algebra, Geometry & Trigonometry and Calculus.

The syllabus aims to enable students to

- acquire concepts and skills for higher studies in mathematics
- develop thinking, reasoning, communication, application and metacognitive skills through a mathematical approach to problem solving
- connect ideas within mathematics and between mathematics and the sciences
- appreciate the abstract nature and power of mathematics.

##### SUBJECT RELEVANCE TO POST-SECONDARY INSTITUTIONS/COURSES

###### Junior College(JC)/Millennia Institute(MI)

- As a **relevant subject in L1R5(JC)/L1R4(MI)**.

**Note:**

- 1) Additional Math is not a subject requirement for application to JC/MI
- 2) Students are to check the website of the respective JCs and MI for more details on the subject combinations offered and subject pre-requisites.

###### Polytechnic

- As a **relevant subject for ELR2B2** in Humanities, Applied Sciences, Health Sciences, Built Environment, Business, Engineering, Maritime studies, Information and Digital Technologies, Media and Design courses.

**Note:** Students are to refer to the JAE booklet (Annex A) for more details.

###### Institute of Technical Education

- As a **relevant subject for ELR1B3 or ELR2B2** when applying for Higher Nitec courses like Business & Services, Design & Media, Info-Com Technology and Engineering

**Note:** Students are to refer to the JAE/JIE booklet (Annex A) for more details.

###### University

- H2 Math is a requirement for most STEM courses. E.g. Mathematics, Sciences, Computer Science and Engineering courses.

**Note:** Students are to refer to the various university websites (see Annex A) for more details on subject admission requirements from JC and Poly.

Source: Collated materials from JAE/JIE booklets and post-secondary institution websites



## SECTION 3 SUBJECT AND ELECTIVE DESCRIPTIONS

### ADDITIONAL MATHEMATICS (EXP/NA)




#### SUBJECT RELEVANCE TO POSSIBLE INDUSTRIES

In general, the learning of Additional Mathematics will equip students with the knowledge, skills and dispositions to engage in a range of professions in the following industries.

- Computer Science
- Computer Engineering
- Civil Engineering
- Aeronautical and Aerospace Technology
- Biomedical Engineering
- Robotics & Mechatronics
- Cybersecurity & Digital Forensics
- Marine Engineering

**Note:** The list is **not exhaustive** and by no means restrictive to these industries. Students should continue to explore the world of work and industry landscape.

#### USEFUL INFORMATION

S/N	Title	Link	QR CODE
1	Additional Mathematics (Exp/N(A)) Syllabus Documents by MOE	<a href="https://www.moe.gov.sg/-/media/files/secondary/syllabuses/maths/2020-express_na-add-maths_syllabuses.ashx?la=en&amp;hash=9D5EFF23B10FBFD6EE7663AEAA65AD3972AB7BD8">https://www.moe.gov.sg/-/media/files/secondary/syllabuses/maths/2020-express_na-add-maths_syllabuses.ashx?la=en&amp;hash=9D5EFF23B10FBFD6EE7663AEAA65AD3972AB7BD8</a>	
1	Additional Mathematics Syllabus examined by SEAB (O Level)	<a href="https://www.seab.gov.sg/docs/default-source/national-examinations/syllabus/olevel/2023syllabus/4049_y23_sy.pdf">https://www.seab.gov.sg/docs/default-source/national-examinations/syllabus/olevel/2023syllabus/4049_y23_sy.pdf</a>	
2	Additional Mathematics Syllabus examined by SEAB (N Level)	<a href="https://www.seab.gov.sg/docs/default-source/national-examinations/syllabus/nlevel/2023syllabus/4051_y23_sy.pdf">https://www.seab.gov.sg/docs/default-source/national-examinations/syllabus/nlevel/2023syllabus/4051_y23_sy.pdf</a>	

## SECTION 3 SUBJECT AND ELECTIVE DESCRIPTIONS

### PRINCIPLES OF ACCOUNTS (EXP/NA)

#### OVERVIEW

The Principles of Accounts syllabus seek to develop in students the knowledge and skills to prepare, communicate and use both accounting and non-accounting information related to the business for decision-making.

The syllabus aims to enable students to understand

- what business decisions are
- how decisions are made using accounting information
- the limitations of relying only on accounting information
- the consideration of non-accounting information.

#### SUBJECT RELEVANCE TO POST-SECONDARY INSTITUTIONS/COURSES

##### Junior College(JC)/Millennia Institute(MI)

- As a **relevant subject in L1R5(JC)/L1R4(MI)**.
- Students with POA will have advantage in foundational commercial understanding in doing Management of Business and Principles of Accounting at H2 level.
- Students are to take note that POA is currently **offered only in MI** under the Commence course and not offered in any JC.

**Note:** Students are to check the website of the respective JCs and MI for more details on the subject combinations offered and subject pre-requisites.

##### Polytechnic

- As a **relevant subject in ELR2B2** when applying for Arts, Humanities, Business & Management, Media courses.

**Note:** Students are to refer to the JAE booklet (Annex A) for more details.

##### Institute of Technical Education

- As a **relevant subject in ELR1B3** when applying for Higher Nitec Courses in Business & Services and Design & Media.

**Note:** Students are to refer to the JAE/JIE booklet (Annex A) for more details.

##### University

- **Not a pre-requisite subject** for business-related and accounting degree courses.

**Note:** Students are to refer to the various university websites (see Annex A) for more details on subject requirements for JC and Poly.

Source: Collated materials from JAE/JIE booklets and post-secondary institution websites

## PRINCIPLES OF ACCOUNTS (EXP/NA)




### SUBJECT RELEVANCE TO POSSIBLE INDUSTRIES

The learning of Principles of Accounts will equip students with the foundational commercial understanding to pursue relevant diploma and degree certificates for a career in business and commercial related industries such as

- Accountancy & Finance
- Arts Business Management
- Banking & Finance
- Business Management
- Culinary & Catering Management
- Food & Beverage Business
- Hospitality & Tourism Management
- Law and Management
- Integrated Events Management

**Note:** The list is **not exhaustive** and by no means restrictive to these industries. Students should continue to explore the world of work and industry landscape.

### USEFUL INFORMATION

S/N	Title	Link	QR CODE
1	Principles of Accounts (Exp/N(A)) Syllabus Documents by MOE	<a href="https://www.moe.gov.sg/-/media/files/secondary/syllabuses/poa/2020principlesofaccountsexpressnormalacademicssyllabus.ashx?la=en&amp;hash=260D9023CE5A7FDDDFAB892B63B0D5A199DF4CF6">https://www.moe.gov.sg/-/media/files/secondary/syllabuses/poa/2020principlesofaccountsexpressnormalacademicssyllabus.ashx?la=en&amp;hash=260D9023CE5A7FDDDFAB892B63B0D5A199DF4CF6</a>	
2	Principles of Accounts Syllabus examined by SEAB (O Level)	<a href="https://www.seab.gov.sg/docs/default-source/national-examinations/syllabus/olevel/2023syllabus/7087_y23_sy.pdf">https://www.seab.gov.sg/docs/default-source/national-examinations/syllabus/olevel/2023syllabus/7087_y23_sy.pdf</a>	
2	Principles of Accounts Syllabus examined by SEAB (N Level)	<a href="https://www.seab.gov.sg/docs/default-source/national-examinations/syllabus/nlevel/2023syllabus/7086_y23_sy.pdf">https://www.seab.gov.sg/docs/default-source/national-examinations/syllabus/nlevel/2023syllabus/7086_y23_sy.pdf</a>	

## SCIENCE (EXP/N(A)/N(T))

### OVERVIEW

The Science curriculum aims to enthuse and nurture students to be scientifically literate, so that they are able to make informed decisions and take responsible actions in their daily lives. The knowledge and skills learnt in Science will also help students relate to other areas of study such as Design & Technology, Food & Nutrition and Geography.

The syllabus aims to enable students to

- acquire strong Science fundamentals to innovate and pursue STEM for future learning and work
- understand and apply scientific concepts and principles, with a focus on developing skills that will be of long-term value in an increasing technological world.

<b>Chemistry</b>	Introduces students to the fundamental idea that matter is made up of particles, apply key ideas of conservation of matter and energy in the quantitative treatment of reactions such as stoichiometry and thermochemistry.
<b>Physics</b>	Provides students with a coherent understanding of energy, matter, and their interrelationships. It focuses on investigating natural phenomena and then applying patterns, models (including mathematical ones), principles, theories and laws to explain the physical behaviour of the universe.
<b>Biology</b>	Introduces students to how life works at the physiological level. It focuses on the dynamic relationships between living things, their interdependence, their interactions with non-living environment and the processes that maintain life and ensure its continuity.

The Science subjects offered in BGSS are

<b>Express</b>	<b>Normal (Academic)</b>	<b>Normal (Technical)</b>
<u>Pure Science</u> a. Chemistry b. Physics c. Biology  <u>Combined Science</u> a. Science (Physics/Chemistry) b. Science (Chemistry/Biology)	<u>Combined Science</u> a. Science (Physics/Chemistry) b. Science (Chemistry/Biology)	Science

## SCIENCE (EXP/N(A)/N(T))

### SUBJECT RELEVANCE TO POST-SECONDARY INSTITUTIONS/COURSES

#### Junior College(JC)/Millennia Institute(MI)

- As a **relevant subject in L1R5(JC)/L1R4(MI)**.
- Students need to score **at least a C6** to offer the respective Science subject at H1/H2 level but this requirement can vary from institution to institution
- Pure Science (Chemistry/Physics/Biology) is a prerequisite for H2 Science subjects in some Junior Colleges.

**Note:** Students are to check the website of the respective JCs and MI for more details on the subject combinations offered and subject pre-requisites.

#### Polytechnic

- As a **relevant subject in ELR2B2** in Applied Sciences, Health Sciences, Built Environment, Engineering, Maritime, Information and Digital Technologies, Media and Design.

**Note:** Students are to refer to the JAE booklet (Annex A) for more details.

#### Institute of Technical Education

- Need to obtain a **pass in Science or Mathematics** for admission to Applied Food Science, Community Care & Social Services, Chemical Process Technology, Opticianry, Fashion Apparel Production & Design, Video Production, Electronics & Info-communications Technology, Digital & Precision Engineering, Aerospace Machining Technology, Mechatronics, Robotics, Rapid Transit Technology
- As a **relevant subject in ELR2B2** when applying for Higher Nitec Courses in Applied Sciences, Electronics & Info-comm Technology, and Engineering.

**Note:** Students are to refer to the JAE/JIE booklet (Annex A) for more details.

#### University

- **Pre-requisite subject** for
  - H1/H2 Physics that prepare students for engineering related courses as well as pharmaceutical science
  - H1/H2 Chemistry that prepare students for university courses such as medicine, pharmacy, dentistry, chemical engineering, environmental engineering etc.
  - H1/H2 Biology that prepare students for degree courses such as dentistry, medicine, pharmacy, nursing, environmental studies etc.
- Students will be considered for admission if their Diplomas are relevant to the Degree courses.

**Note:** Students are to refer to the various university websites (see Annex A) for more details on subject requirements for JC and Poly.

Source: Collated information from JAE/JIE booklets and post-secondary institution website






**SCIENCE (EXP/N(A)/N(T))****SUBJECT RELEVANCE TO POSSIBLE INDUSTRIES**




In general, the learning of Science will equip students with the knowledge, skills and dispositions to engage in a range of professions in the following industries

- Engineering Science
- Mechanical Engineering
- Electrical Engineering
- Civil Engineering
- Biomedical Engineering
- Computer Engineering
- Chemical Engineering
- Biomedical Engineering
- Aerospace Technology
- Civil Engineering
- Dentistry
- Medicine
- Pharmacy
- Food Science and Technology
- Environmental Studies
- Medical Biotechnology
- Nursing
- Mechatronics and Robotics

**Note:** The list is **not exhaustive** and by no means restrictive to these industries. Students should continue to explore the world of work and industry landscape.

**USEFUL INFORMATION**

S/N	Title	Link	QR CODE
1	Physics Syllabus examined by SEAB (O Level)	<a href="https://www.seab.gov.sg/docs/default-source/national-examinations/syllabus/olevel/2023syllabus/6091_y23_sy.pdf">https://www.seab.gov.sg/docs/default-source/national-examinations/syllabus/olevel/2023syllabus/6091_y23_sy.pdf</a>	
2	Chemistry Syllabus examined by SEAB (O Level)	<a href="https://www.seab.gov.sg/docs/default-source/national-examinations/syllabus/olevel/2023syllabus/6092_y23_sy.pdf">https://www.seab.gov.sg/docs/default-source/national-examinations/syllabus/olevel/2023syllabus/6092_y23_sy.pdf</a>	
3	Biology Syllabus examined by SEAB (O Level)	<a href="https://www.seab.gov.sg/docs/default-source/national-examinations/syllabus/olevel/2023syllabus/6093_y23_sy.pdf">https://www.seab.gov.sg/docs/default-source/national-examinations/syllabus/olevel/2023syllabus/6093_y23_sy.pdf</a>	
4	Combined Science (Chemistry, Physics) Syllabus examined by SEAB (O Level)	<a href="https://www.seab.gov.sg/docs/default-source/national-examinations/syllabus/olevel/2023syllabus/5076_y23_sy.pdf">https://www.seab.gov.sg/docs/default-source/national-examinations/syllabus/olevel/2023syllabus/5076_y23_sy.pdf</a>	
5	Combined Science (Chemistry, Biology) Syllabus examined by SEAB (O Level)	<a href="https://www.seab.gov.sg/docs/default-source/national-examinations/syllabus/olevel/2023syllabus/5078_y23_sy.pdf">https://www.seab.gov.sg/docs/default-source/national-examinations/syllabus/olevel/2023syllabus/5078_y23_sy.pdf</a>	

<b>S/N</b>	<b>Title</b>	<b>Link</b>	<b>QR CODE</b>
6	Combined Science Syllabus (Chemistry, Physics) examined by SEAB (N Level)	<a href="https://www.seab.gov.sg/docs/default-source/national-examinations/syllabus/nlevel/2023syllabus/5105_y23_sy.pdf">https://www.seab.gov.sg/docs/default-source/national-examinations/syllabus/nlevel/2023syllabus/5105_y23_sy.pdf</a>	
7	Combined Science Syllabus (Chemistry, Biology) examined by SEAB (N Level)	<a href="https://www.seab.gov.sg/docs/default-source/national-examinations/syllabus/nlevel/2023syllabus/5107_y23_sy.pdf">https://www.seab.gov.sg/docs/default-source/national-examinations/syllabus/nlevel/2023syllabus/5107_y23_sy.pdf</a>	
8	Science NT Syllabus examined by SEAB	<a href="https://www.seab.gov.sg/docs/default-source/national-examinations/syllabus/nlevel/2023syllabus/5148_y23_sy.pdf">https://www.seab.gov.sg/docs/default-source/national-examinations/syllabus/nlevel/2023syllabus/5148_y23_sy.pdf</a>	

### SECTION 3 SUBJECT AND ELECTIVE DESCRIPTIONS

#### COMPUTER APPLICATIONS (N(T))

##### OVERVIEW

The syllabus will draw the appreciation and use of software application packages for word processing, computer drawing and image editing, multimedia presentations and documents, spreadsheet calculations and charts, game design, programming; as well as, applications on the Internet.

The syllabus aims to enable students to

- acquire skills in using a variety of application software and associated computer hardware to accomplish tasks, communicate, and facilitate activities;
- develop an awareness of how computing technology are used in the home, school, workplace and community;
- appreciate the role computers play in everyday life and recognise the impact computers have on society and people.

##### SUBJECT RELEVANCE TO POST-SECONDARY INSTITUTIONS/COURSES

###### Institute of Technical Education

- Obtain a **pass in Computer Applications** as one of the subjects for best 4 subjects for admission to all the courses.

**Note:** Students are to refer to the JIE booklet (Annex A) for more details.

Source: Collated information from JAE/JIE booklets and post-secondary institution websites



## SECTION 3 SUBJECT AND ELECTIVE DESCRIPTIONS

### COMPUTER APPLICATIONS (N(T))


#### SUBJECT RELEVANCE TO POSSIBLE INDUSTRIES

In general, the learning of Computer Applications will equip students with the knowledge, skills and dispositions to engage in a range of professions in the following industries.

- Infocomm Technology
- Electronics
- Engineering
- Computer Networking & Communications
- Robotics & Mechatronics
- Digital Animation
- Video Production

**Note:** The list is **not exhaustive** and by no means restrictive to these industries. Students should continue to explore the world of work and industry landscape.

#### USEFUL INFORMATION

S/N	Title	Link	QR CODE
1	CPA Syllabus examined by SEAB	<a href="https://www.seab.gov.sg/docs/default-source/national-examinations/syllabus/nlevel/2023syllabus/2018_y23_sy.pdf">https://www.seab.gov.sg/docs/default-source/national-examinations/syllabus/nlevel/2023syllabus/2018_y23_sy.pdf</a>	

### SECTION 3 SUBJECT AND ELECTIVE DESCRIPTIONS

#### ELEMENTS OF BUSINESS SKILLS (N(T))

##### OVERVIEW

The syllabus aims to provide students with the opportunity to develop foundational business knowledge, employability skills and values that are transferable over different areas of work, for the future.

The syllabus aims to enable students to

- develop knowledge and understanding of basic business and marketing activities;
- apply and analyse information in the investigation of a business;
- think creatively to generate solutions to improve marketing and customer relations;
- develop an awareness of how computing technology are used in the home, school, workplace and community;
- develop an enterprising mindset.

##### SUBJECT RELEVANCE TO POST-SECONDARY INSTITUTIONS/COURSES

###### Institute of Technical Education

- Obtain a **pass in Elements of Business Skills** as one of the subjects for best 4 subjects for admission to all the courses.

**Note:** Students are to refer to the JIE booklet (Annex A) for more details.

### SECTION 3 SUBJECT AND ELECTIVE DESCRIPTIONS

#### ELEMENTS OF BUSINESS SKILLS (N(T))


##### SUBJECT RELEVANCE TO POSSIBLE INDUSTRIES

In general, the learning of Elements of Business Skills will equip students with the knowledge, skills and dispositions to engage in a range of professions in the following industries.

- Retail Services
- Travel and Tourism Services
- E-Commence
- Business Administration
- Business Services
- Marketing

**Note:** The list is **not exhaustive** and by no means restrictive to these industries. Students should continue to explore the world of work and industry landscape.

##### USEFUL INFORMATION

S/N	Title	Link	QR CODE
1	EBS Syllabus examined by SEAB	<a href="https://www.seab.gov.sg/docs/default-source/national-examinations/syllabus/nlevel/2023syllabus/7066_y23_sy.pdf">https://www.seab.gov.sg/docs/default-source/national-examinations/syllabus/nlevel/2023syllabus/7066_y23_sy.pdf</a>	

### SECTION 3 SUBJECT AND ELECTIVE DESCRIPTIONS

#### **SMART ELECTRICAL TECHNOLOGY (N(T))**

##### **OVERVIEW**

This subject aims to provide students with training in the core, foundational concepts and principles of operation of all home automation systems. The inclusion of training in the use of smartphones to manage and control a home automation system by means of apps also serves to introduce the much talked about 'Internet of Things' today to students.

Students will also be provided with foundational training in electrical circuits and technology in the applied subject. For home automation, students will learn, through a combination of theory lessons and hands-on practical training, the most commonly used basic and advanced control functions. The training in electrical circuits and home automation systems will help prepare and enable students to take up further studies in electrical, control and computer engineering or related fields at post-secondary level.

The syllabus aims to:

1. Equip students with a foundational knowledge of electrical circuits and systems and home automation systems in preparation for further engineering studies at post-secondary level;
2. Enable students to acquire skills and knowledge that are of immediate interest, relevance and use in daily life;
3. Enable students to develop their analytical abilities and problem-solving skills;
4. Inculcate in students safety consciousness and safe working habits;

5. Enable students to understand the applications of electrical technology and home automation technology in homes and built environments; and
6. Develop in students an interest in a post-secondary engineering-based education.

## **SUBJECT RELEVANCE TO POST-SECONDARY INSTITUTIONS/COURSES**

### **Institute of Technical Education**

Obtain a **pass in Smart Electrical Technology** as one of the subjects for best 4 subjects for admission to all the courses.

Related ITE Course: *Nitec* in Electrical Technology (Lighting & Sound or Power & Control)

**Note:** Students are to refer to the JIE booklet (Annex A) for more details.

### SECTION 3 SUBJECT AND ELECTIVE DESCRIPTIONS

#### SMART ELECTRICAL TECHNOLOGY (N(T))


##### SUBJECT RELEVANCE TO POSSIBLE INDUSTRIES

In general, the learning of Smart Electrical Technology will equip students with the knowledge, skills and dispositions to engage in a range of professions in the following industries.

- Smart Home Products
- Smart Home Solutions
- Architects
- Software Development
- Smart Products
- Cybersecurity Architects
- Smart Home Design

**Note:** The list is **not exhaustive** and by no means restrictive to these industries. Students should continue to explore the world of work and industry landscape.

##### USEFUL INFORMATION

S/N	Title	Link	QR CODE
1	SET Syllabus examined by SEAB	<a href="https://www.seab.gov.sg/docs/default-source/national-examinations/syllabus/nlevel/2023syllabus/A201_y23_sy.pdf">https://www.seab.gov.sg/docs/default-source/national-examinations/syllabus/nlevel/2023syllabus/A201_y23_sy.pdf</a>	

## SECTION 3 SUBJECT AND ELECTIVE DESCRIPTIONS

### ART (EXP/NA)

#### OVERVIEW

The Art syllabus is designed to provide students with the opportunity to give form and meaning to their ideas, thoughts and feelings through visual and tactile forms. The aims of the syllabus are to:

- nurture an informed awareness and appreciation of the visual arts
- enhance ability to identify and solve problems creatively in visual and tactile forms
- develop competency in the use of art and design principles, materials and processes
- cultivate an inquiring mind, a spirit of experimentation and a passion for the visual arts.

#### SUBJECT RELEVANCE TO POST-SECONDARY INSTITUTIONS/COURSES

Junior College(JC)/Millennia Institute(MI)	Polytechnic
<ul style="list-style-type: none"> <li>• As a <b>relevant subject in L1R5(JC)/L1R4(MI)</b>.</li> <li>• Need to <b>obtain a pass</b> in the Art Qualifying Test for H2 Art. No requirement needed for H1 Art.</li> </ul> <p><b>Note:</b> Students should check the website of the respective JCs and MI for more details on the subject combinations and subject pre-requisites.</p>	<ul style="list-style-type: none"> <li>• As a <b>relevant subject in ELR2B2</b> when applying for Arts, Humanities, Media, Business and Design courses.</li> </ul> <p><b>Note:</b> Students are to refer to the JAE booklet (Annex A) for more details.</p>
Institute of Technical Education	NAFA/LASALLE
<ul style="list-style-type: none"> <li>• As a <b>best subject in ELR1B3 or ELB4</b> when applying for Higher Nitec Courses in Business &amp; Services, Design &amp; Media and Hospitality.</li> <li>• <b>Note:</b> Students are to refer to the JAE/JIE booklet (Annex A) for more details.</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Arts results and portfolios</b> can be used to demonstrate artistic potential when applying for Design, Fine Arts and Media Arts courses.</li> </ul> <p><b>Note:</b> Students are to refer to the websites (Annex A) for more details.</p>
University	
<ul style="list-style-type: none"> <li>• Not a pre-requisite subject for any degree courses.</li> </ul> <p><b>Note:</b> Students are to refer to the various university websites (see Annex A) for more details on subject requirements for JC and Poly.</p>	

Source: Collated information from JAE/JIE booklets and post-secondary institution website

## SECTION 3 SUBJECT AND ELECTIVE DESCRIPTIONS

### ART (EXP/NA)




#### SUBJECT RELEVANCE TO POSSIBLE INDUSTRIES

In general, the learning of Art will equip students with the knowledge, skills and dispositions to engage in a range of professions in the following industries

- Communication Design
- Digital Film and Television
- Experience & Communication Design
- Game Design and Development
- Digital Animation
- Interior Design
- Fashion and Apparel Design
- Education
- Graphic Designers

**Note:** The list is **not exhaustive** and by no means restrictive to these industries. Students should continue to explore the world of work and industry landscape.

#### USEFUL INFORMATION

S/N	Title	Link	QR CODE
1	Art Syllabus examined by SEAB (O Level)	<a href="https://www.seab.gov.sg/docs/default-source/national-examinations/syllabus/olevel/2023syllabus/6123_y23_sy.pdf">https://www.seab.gov.sg/docs/default-source/national-examinations/syllabus/olevel/2023syllabus/6123_y23_sy.pdf</a>	
2	Art Syllabus examined by SEAB (N Level)	<a href="https://www.seab.gov.sg/docs/default-source/national-examinations/syllabus/nlevel/2023syllabus/6125_y23_sy.pdf">https://www.seab.gov.sg/docs/default-source/national-examinations/syllabus/nlevel/2023syllabus/6125_y23_sy.pdf</a>	
3	Art Syllabus (N(T)) examined by SEAB	<a href="https://www.seab.gov.sg/docs/default-source/national-examinations/syllabus/nlevel/2023syllabus/6128_y23_sy.pdf">https://www.seab.gov.sg/docs/default-source/national-examinations/syllabus/nlevel/2023syllabus/6128_y23_sy.pdf</a>	



## SECTION 3 SUBJECT AND ELECTIVE DESCRIPTIONS

### EXERCISE AND SPORTS SCIENCE (EXP/NA)

#### OVERVIEW

Exercise and Sports Science (ESS) is an interdisciplinary subject where students will be grounded in the sub-disciplines of sports science with an understanding of sociology in relation to sports.

The syllabus aims to enable students to:

- acquire and apply the knowledge in exercise physiology, biomechanics and sports psychology develop movement concepts and motor skills
- understand the benefits and risks associated with physical exercise and sports to manage personal participation in physical activities; and
- examine issues related to sports and participation in physical activities from sociocultural and global perspectives.

#### SUBJECT RELEVANCE TO POST-SECONDARY INSTITUTIONS/COURSES

##### Junior College(JC)/Millennia Institute(MI)

- Can be used a **relevant subject in L1R5(JC)/L1R4(MI)**.

**Note:** Students should check the website of the respective JCs and MI for more details on the subject combinations and subject pre-requisites.

##### Polytechnic

- As a **best subject in ELR2B2** when applying for Arts, Humanities, Business & Management, Science, Engineering, Design & Media courses.

**Note:** Students are to refer to the JAE booklet (Annex A) for more details.

##### University

- Not a pre-requisite subject for degree courses.

**Note:** Students are to refer to the various university websites (see Annex A) for more details on subject requirements for JC and Poly.

Source: Collated information from JAE/JIE booklets and post-secondary institution websites

## SECTION 3 SUBJECT AND ELECTIVE DESCRIPTIONS

### EXERCISE AND SPORTS SCIENCE (EXP/NA)



#### SUBJECT RELEVANCE TO POSSIBLE INDUSTRIES

In general, the learning of Exercise and Sports Science will equip students with the foundational understanding to pursue relevant diploma and degree certificates for a career in the following industries

- Sports Management
- Health Management & Promotion
- Health Services Management
- Sport Coaching
- Sports & Exercise Science
- Sports Nutritionist

**Note:** The list is **not exhaustive** and by no means restrictive to these industries. Students should continue to explore the world of work and industry landscape.

#### USEFUL INFORMATION

S/N	Title	Link	QR CODE
1	MOE ESS Syllabus (Exp/NA)	<a href="https://www.moe.gov.sg/-/media/files/secondary/syllabuses/pe/2018_olevel_exercise_and_sports_science_syllabus.pdf">https://www.moe.gov.sg/-/media/files/secondary/syllabuses/pe/2018_olevel_exercise_and_sports_science_syllabus.pdf</a>	
2	ESS Syllabus examined by SEAB (O Level)	<a href="https://www.seab.gov.sg/docs/default-source/national-examinations/syllabus/olevel/2023syllabus/6081_y23_sy.pdf">https://www.seab.gov.sg/docs/default-source/national-examinations/syllabus/olevel/2023syllabus/6081_y23_sy.pdf</a>	

## SECTION 3 SUBJECT AND ELECTIVE DESCRIPTIONS

### DESIGN AND TECHNOLOGY (EXP/N(A)/N(T))

#### OVERVIEW

In Design and Technology, students learn mainly through design-and-make projects guided by a design process. The design process entails identifying design needs from real-world experiences, generating and developing ideas, and realising the design solution; with research carried out when necessary.

The syllabus aims to enable students to:

- acquire related knowledge and develop skills to turn ideas into reality
- develop design thinking through sketching to generate solutions
- explore and experiment ideas through mock-ups to experience failures and develop solutions
- make prototypes as a cognitive and hands-on endeavor.

#### SUBJECT RELEVANCE TO POST-SECONDARY INSTITUTIONS/COURSES

##### Junior College(JC)/Millennia Institute(MI)

- As a **relevant subject in L1R5(JC)/L1R4(MI)**.
- Not relevant to any subject combination in JC or MI.

**Note :** Students should check the website of the respective JCs and MI for more details on the subject combinations offered and subject pre-requisites.

##### Polytechnic

- As a **relevant subject in ELR2B2** when applying for Arts, Humanities, Science & Technology and Media courses.

**Note:** Students are to refer to the JAE booklet (Annex A) for more details.

##### Institute of Technical Education

- Obtain a **pass in Design and Technology** as one of the subjects for best 4 subjects for admission to all Nitec courses.
- As a **relevant subject in ELR2B2** when applying for Higher Nitec in Architectural Technology, Electronics & Info-comm Technology and Engineering.

**Note:** Students are to refer to the JAE/JIE booklet (Annex A) for more details.

##### University

- Not a pre-requisite subject for any degree courses.

**Note:** Students are to refer to the various university websites (see Annex A) for more details on subject requirements for JC and Poly.

Source: Collated information from JAE/JIE booklets and post-secondary institution websites

## SECTION 3 SUBJECT AND ELECTIVE DESCRIPTIONS

### DESIGN AND TECHNOLOGY (EXP/N(A)/N(T))




#### SUBJECT RELEVANCE TO POSSIBLE INDUSTRIES

In general, the learning of History will equip students with the knowledge, skills and dispositions to engage in a range of professions in the following industries

- Architecture
- Aeronautical and Aerospace
- Marine Engineering
- Common Engineering
- Engineering Systems
- Green Building Energy Management
- Robotics and Mechatronics
- Sustainable Urban Design & Engineering
- Interior Designer
- Product Design
- Built Environment
- Automotive Technology

**Note:** The list is **not exhaustive** and by no means restrictive to these industries. Students should continue to explore the world of work and industry landscape.

#### USEFUL INFORMATION

S/N	Title	Link	QR CODE
1	Design & Technology Syllabus examined by SEAB (O Level)	<a href="https://www.seab.gov.sg/docs/default-source/national-examinations/syllabus/olevel/2023syllabus/7059_y23_sy.pdf">https://www.seab.gov.sg/docs/default-source/national-examinations/syllabus/olevel/2023syllabus/7059_y23_sy.pdf</a>	
2	Design & Technology Syllabus examined by SEAB (N Level)	<a href="https://www.seab.gov.sg/docs/default-source/national-examinations/syllabus/nlevel/2023syllabus/7055_y23_sy.pdf">https://www.seab.gov.sg/docs/default-source/national-examinations/syllabus/nlevel/2023syllabus/7055_y23_sy.pdf</a>	
3	Design and Technology Syllabus examined by SEAB	<a href="https://www.seab.gov.sg/docs/default-source/national-examinations/syllabus/nlevel/2023syllabus/7062_y23_sy.pdf">https://www.seab.gov.sg/docs/default-source/national-examinations/syllabus/nlevel/2023syllabus/7062_y23_sy.pdf</a>	

## SECTION 3 SUBJECT AND ELECTIVE DESCRIPTIONS

### NUTRITION AND FOOD SCIENCES (EXP/NA)

#### OVERVIEW

Nutrition and Food Science (NFS) is an Upper Secondary elective subject that provide students with a broad understanding of concepts in nutrition and health, food literacy and principles of food science. Students will be exposed to authentic real-world contexts through hands-on practical and coursework. Through these learning experiences, the syllabus aims to develop students to:

- lead a healthier lifestyle proactively through proper diet and nutrition
- advocate sustainable food consumption by planning and making appropriate food choices
- apply principles of culinary science creatively in food preparation and cooking.

#### SUBJECT RELEVANCE TO POST-SECONDARY INSTITUTIONS/COURSES

Junior College(JC)/Millennia Institute(MI)	
<ul style="list-style-type: none"> <li>• As a <b>relevant subject in L1R5(JC)/L1R4(MI)</b>.</li> <li>• Not relevant to any subject combination in JC or MI.</li> </ul> <p><b>Note :</b> Students should check the website of the respective JCs and MI for more details on the subject combinations offered and subject pre-requisites.</p>	
Polytechnic	Institute of Technical Education
<ul style="list-style-type: none"> <li>• As a <b>relevant subject in ELR2B2</b> when applying for Arts, Humanities, Science &amp; Technology and Media courses.</li> </ul> <p><b>Note:</b> Students are to refer to the JAE booklet (Annex A) for more details.</p>	<ul style="list-style-type: none"> <li>• As a <b>best subject in ELR1B3 or ELB4</b> when applying for Higher Nitec in Business &amp; Services, Design &amp; Media and Hospitality.</li> </ul> <p><b>Note:</b> Students are to refer to the JAE/JIE booklet (Annex A) for more details.</p>
University	
<ul style="list-style-type: none"> <li>• Not a pre-requisite subject for any degree courses.</li> </ul> <p><b>Note:</b> Students are to refer to the various university websites (see Annex A) for more details on subject requirements for JC and Poly.</p>	

Source: Collated information from JAE/JIE booklets and post-secondary institution websites

## SECTION 3 SUBJECT AND ELECTIVE DESCRIPTIONS

### NUTRITION AND FOOD SCIENCES (EXP/NA)


#### SUBJECT RELEVANCE TO POSSIBLE INDUSTRIES

In general, the learning of Nutrition and Food Science will equip students with the knowledge, skills and dispositions to engage in a range of professions in the following industries

- Biomedical Science
- Health Management and Promotion
- Sports Coaching
- Sports and Exercise Science
- Food Science and Technology
- Applied Chemistry
- Early Childhood Educator

**Note:** The list is **not exhaustive** and by no means restrictive to these industries. Students should continue to explore the world of work and industry landscape.

#### USEFUL INFORMATION

S/N	Title	Link	QR CODE
1	NFS Syllabus examined by SEAB (O Level)	<a href="https://www.seab.gov.sg/docs/default-source/national-examinations/syllabus/olevel/2023syllabus/6097_y23_sy.pdf">https://www.seab.gov.sg/docs/default-source/national-examinations/syllabus/olevel/2023syllabus/6097_y23_sy.pdf</a>	
2	NFS Syllabus examined by SEAB (N Level)	<a href="https://www.seab.gov.sg/docs/default-source/national-examinations/syllabus/nlevel/2023syllabus/6073_y23_sy.pdf">https://www.seab.gov.sg/docs/default-source/national-examinations/syllabus/nlevel/2023syllabus/6073_y23_sy.pdf</a>	

## FOOD STUDIES (N(T))

### OVERVIEW

Food Studies provide students with a broad understanding of concepts in nutrition and health, food literacy and principles of food science. Students will be exposed to authentic real-world contexts through hands-on practical and coursework. Through these learning experiences, the syllabus aims to develop students to:

- lead a healthier lifestyle proactively through proper diet and nutrition;
- advocate sustainable food consumption by planning and making appropriate food choices;
- apply principles of culinary science creatively in food preparation and cooking.

### SUBJECT RELEVANCE TO POST-SECONDARY INSTITUTIONS/COURSES

#### Institute of Technical Education

- Obtain a **pass in Food Studies** as one of the subjects for best 4 subjects for admission to all the courses.

**Note:** Students are to refer to the JIE booklet (Annex A) for more details.

### SECTION 3 SUBJECT AND ELECTIVE DESCRIPTIONS

#### FOOD STUDIES (N(T))


##### SUBJECT RELEVANCE TO POSSIBLE INDUSTRIES

In general, the learning of Nutrition and Food Science will equip students with the knowledge, skills and dispositions to engage in a range of professions in the following industries

- Pastry and Baking
- Western Culinary Arts
- Asian Culinary Arts
- Sports and Exercise Science
- Food Science and Technology
- Early Childhood Educator

**Note:** The list is **not exhaustive** and by no means restrictive to these industries. Students should continue to explore the world of work and industry landscape.

##### USEFUL INFORMATION

S/N	Title	Link	QR CODE
1	Food Studies Syllabus	<a href="https://www.seab.gov.sg/docs/default-source/national-examinations/syllabus/nlevel/2022syllabus/6079_y22_sy.pdf">https://www.seab.gov.sg/docs/default-source/national-examinations/syllabus/nlevel/2022syllabus/6079_y22_sy.pdf</a>	



## SECTION 3 SUBJECT AND ELECTIVE DESCRIPTIONS

### HISTORY/ HUMANITIES (HISTORY)

#### OVERVIEW

The syllabus seek to enable students to be effective citizens and participants in the 21st century. To achieve this, students need to understand how the present world system came into being, and the inter-connectedness of nation-states and peoples. Students will understand not just concepts such as balance of power, hegemony, geopolitics and nationalism, but also acquire historical thinking skills.

The syllabus aims to enable students to:

- develop into inquisitive, critical and reflective thinkers
- develop in students an inquisitive mind
- develop in students the ability to organize and communicate their historical knowledge
- equip students with the dispositions and skills to understand the present and contribute as local and global citizens.

#### SUBJECT RELEVANCE TO POST-SECONDARY INSTITUTIONS/COURSES

##### Junior College(JC)/Millennia Institute(MI)

- As a **relevant subject in L1R5(JC)/L1R4(MI)**.
- Students need to score **at least a C6** in History or Humanities (SS/Hist) to qualify for H1/H2 History, but this requirement can vary from institution to institution.

**Note :** Students should check the website of the respective JCs and MI for more details on the subject combinations offered and subject pre-requisites.

##### Polytechnic

- As a **relevant subject in ELR2B2** when applying for Arts, Humanities, Business & Management, Media courses.

**Note:** Students are to refer to the JAE booklet (Annex A) for more details.

##### Institute of Technical Education (ITE)

- As a **relevant subject in ELR1B3 or ELB4** when applying for Higher Nitec in Business & Services, Design & Media and Hospitality.

**Note:** Students are to refer to the JAE/JIE booklet (Annex A) for more details.

##### University

- History is **available as a degree course** in local universities.

**Note:** Students are to refer to the various university websites (Annex A) for more details on subject requirements for JC and Poly.

Source: Collated information from JAE/JIE booklets and post-secondary institution websites

## SECTION 3 SUBJECT AND ELECTIVE DESCRIPTIONS

### HISTORY/ HUMANITIES (HISTORY)




#### SUBJECT RELEVANCE TO POSSIBLE INDUSTRIES

In general, the learning of History will equip students with the knowledge, skills and dispositions to engage in a range of professions in the following industries

- Diplomacy and Foreign Relations
- Public Policy
- Legal Services
- Journalism
- Museum and Arts Centres
- Education
- Community and Social Services
- Social Sciences in Gerontology

**Note:** The list is **not exhaustive** and by no means restrictive to these industries. Students should continue to explore the world of work and industry landscape.

#### USEFUL INFORMATION

S/N	Title	Link	QR CODE
1	Humanities(History) Syllabus examined by SEAB (O Level)	<a href="https://www.seab.gov.sg/docs/default-source/national-examinations/syllabus/olevel/2023syllabus/2273_y23_sy.pdf">https://www.seab.gov.sg/docs/default-source/national-examinations/syllabus/olevel/2023syllabus/2273_y23_sy.pdf</a>	
2	Humanities(History) Syllabus examined by SEAB (N Level)	<a href="https://www.seab.gov.sg/docs/default-source/national-examinations/syllabus/nlevel/2023syllabus/2176_y23_sy.pdf">https://www.seab.gov.sg/docs/default-source/national-examinations/syllabus/nlevel/2023syllabus/2176_y23_sy.pdf</a>	
3	Pure History Syllabus examined by SEAB (O Level)	<a href="https://www.seab.gov.sg/docs/default-source/national-examinations/syllabus/olevel/2023syllabus/2174_y23_sy.pdf">https://www.seab.gov.sg/docs/default-source/national-examinations/syllabus/olevel/2023syllabus/2174_y23_sy.pdf</a>	

## SECTION 3 SUBJECT AND ELECTIVE DESCRIPTIONS

### HUMANITIES (GEOGRAPHY)

#### OVERVIEW

Geography prepares the students for the future by empowering them to understand and analyse a changing world. They will gain important knowledge about contemporary challenges in the areas of the environment, population growth and globalisation as well as their impact on Singapore and the world.

The syllabus aims to enable students to:

- develop a holistic understanding of physical-human relationships at local, regional and global scales
- gain geographical insights and global awareness into future challenges
- become inquiring and self-directed learners
- develop skills in communication and make informed judgement through analysis and evaluation of geographical information.

#### SUBJECT RELEVANCE TO POST-SECONDARY INSTITUTIONS/COURSES

##### Junior College(JC)/Millennia Institute(MI)

- As a **relevant subject in L1R5(JC)/L1R4(MI)**.
- Students need to score **at least a C6** in Humanities (SS/Geo) to qualify for H1/H2 Geography, but this requirement can vary from institution to institution

**Note :** Students should check the website of the respective JCs and MI for more details on subject combinations offered and subject pre-requisites.

##### Polytechnic

- As a **relevant subject in ELR2B2** when applying for Arts, Humanities, Business & Management, Media courses.

**Note:** Students are to refer to the JAE booklet (Annex A) for more details.

##### Institute of Technical Education (ITE)

- As a **relevant subject in ELR1B3 or ELB4** when applying for Higher Nitec in Business & Services, Design & Media and Hospitality.

**Note:** Students are to refer to the JAE/JIE booklet (Annex A) for more details.

##### University

- Geography is **available as a degree course** in local universities.

**Note:** Students are to refer to the various university websites (Annex A) for more details on subject requirements for JC and Poly.

Source: Collated information from JAE/JIE booklets and post-secondary institution websites

## SECTION 3 SUBJECT AND ELECTIVE DESCRIPTIONS

### HUMANITIES (GEOGRAPHY)



#### SUBJECT RELEVANCE TO POSSIBLE INDUSTRIES

In general, the learning of Geography will equip students with the knowledge, skills and dispositions to engage in a range of professions in the following fields such as

- Sustainable Urban Design and Engineering
- Environmental Consultancy
- Social Sciences in Gerontology
- Tourism and Resort Management
- International Trade and Business
- Integrated Events and Project Management
- Hotel and Hospitality Management
- Education

**Note:** The list is **not exhaustive** and by no means restrictive to these industries. Students should continue to explore the world of work and industry landscape.

#### USEFUL INFORMATION

S/N	Title	Link	QR CODE
1	Humanities (Geography) Syllabus examined by SEAB (O Level)	<a href="https://www.seab.gov.sg/docs/default-source/national-examinations/syllabus/olevel/2023syllabus/2272_y23_sy.pdf">https://www.seab.gov.sg/docs/default-source/national-examinations/syllabus/olevel/2023syllabus/2272_y23_sy.pdf</a>	
2	Humanities (Geography) Syllabus examined by SEAB (N Level)	<a href="https://www.seab.gov.sg/docs/default-source/national-examinations/syllabus/nlevel/2023syllabus/2175_y23_sy.pdf">https://www.seab.gov.sg/docs/default-source/national-examinations/syllabus/nlevel/2023syllabus/2175_y23_sy.pdf</a>	

## SECTION 3 SUBJECT AND ELECTIVE DESCRIPTIONS

### HUMANITIES (LITERATURE)

#### OVERVIEW

The study of Literature empowers students to make meaning of texts, and see themselves and the world from diverse perspectives. It inspires students to empathise with others, to find their own voice as they reflect on the human condition with discernment, and to consider the impact of their beliefs and actions on society.

The syllabus aims to enable students to learn to

- become empathetic and global thinkers
- become critical readers
- become creative meaning-makers
- become convincing communicators.

#### SUBJECT RELEVANCE TO POST-SECONDARY INSTITUTIONS/COURSES

##### Junior College(JC)/Millennia Institute(MI)

- As a **relevant subject in L1R5(JC)/L1R4(MI)**.
- Students need to score **at least a C6** in Humanities (SS/Lit) to qualify for H1/H2 Literature, but this requirement can vary from institution to institution

**Note:** Students should check the website of the respective JCs and MI for more details on the subject combinations offered in the Arts and Science courses and subject pre-requisites.

##### Polytechnic

- As a **relevant subject in ELR2B2** when applying for Arts, Humanities, Business & Management courses

**Note:** Students are to refer to the JAE booklet (see Annex A) for more details on the courses.

##### Institute of Technical Education

- As a **best subject in ELR1B3 or ELB4** when applying for Higher Nitec Courses in Business & Services, Design & Media and Hospitality.

**Note:** Students are to refer to the JAE/JIE booklet (Annex A) for more details.

##### University

- Literature is **available as a degree course** in local universities.

**Note:** Students are to refer to the various university websites (see Annex A) for more details on subject requirements for JC and Poly.

Source: Collated information from JAE/JIE booklets and post-secondary institution websites

## HUMANITIES (LITERATURE)




### SUBJECT RELEVANCE TO POSSIBLE INDUSTRIES

In general, the learning of Literature will equip students with the knowledge, skills and dispositions to engage in a range of professions in the following fields such as

- Creative Writing for Television and New Media
- Applied Drama and Psychology
- Media and Communication
- Mass Communication
- Journalism
- Psychological Studies
- Education
- Diplomacy and Foreign Relations

**Note:** The list is **not exhaustive** and by no means restrictive to these industries. Students should continue to explore the world of work and industry landscape.

### USEFUL INFORMATION

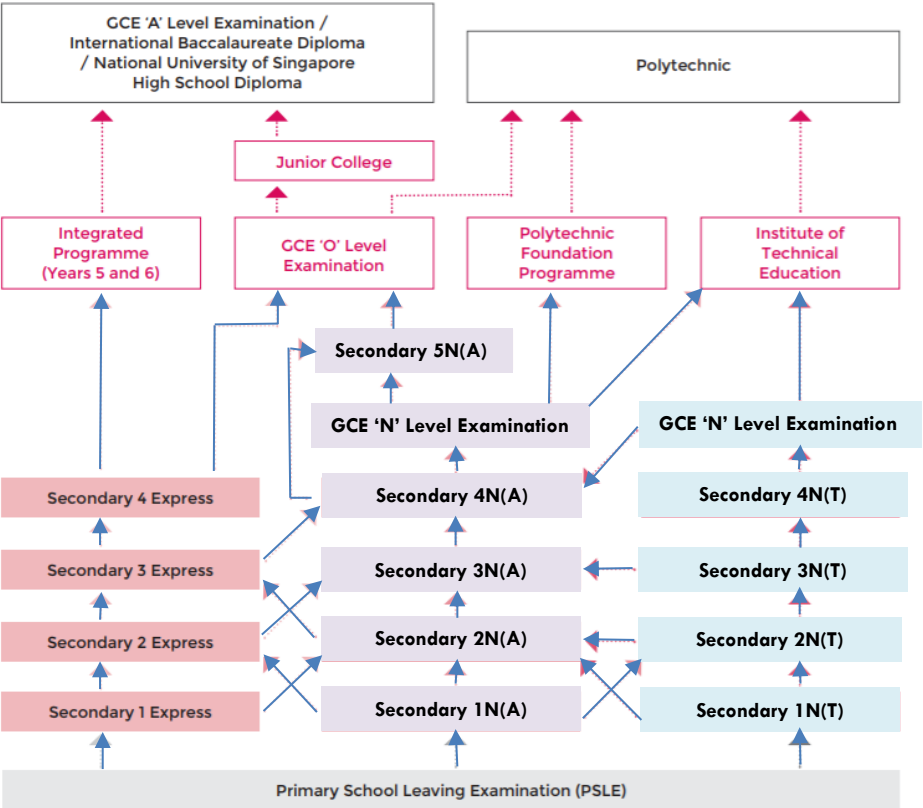
S/N	Title	Link	QR CODE
1	MOE Literature Syllabus (Exp/NA)	<a href="https://www.moe.gov.sg/-/media/files/secondary/syllabuses/eng/2019literatureinenglishsyllabusloweranduppersecondary.pdf">https://www.moe.gov.sg/-/media/files/secondary/syllabuses/eng/2019literatureinenglishsyllabusloweranduppersecondary.pdf</a>	
2	Humanities (Literature) Syllabus examined by SEAB (O Level)	<a href="https://www.seab.gov.sg/docs/default-source/national-examinations/syllabus/olevel/2023syllabus/2274_y23_sy.pdf">https://www.seab.gov.sg/docs/default-source/national-examinations/syllabus/olevel/2023syllabus/2274_y23_sy.pdf</a>	
3	Humanities (Literature) Syllabus examined by SEAB (N Level)	<a href="https://www.seab.gov.sg/docs/default-source/national-examinations/syllabus/nlevel/2023syllabus/2177_y23_sy.pdf">https://www.seab.gov.sg/docs/default-source/national-examinations/syllabus/nlevel/2023syllabus/2177_y23_sy.pdf</a>	

SECTION 4 CHARTING MY POST-SECONDARY OPTIONS

4.1 Many Pathways, Various Possibilities

Success comes in many forms and all students will be able to chart their own paths by following their strengths and passions. Students ought to understand the various pathways that they can succeed and plan for the long term.

Flexibility between Courses



Source : MOE Corporate Brochure

## SECTION 4 CHARTING MY POST-SECONDARY OPTIONS

### 4.2 Aggregate Requirements to JC/MI/POLY/ITE

S/N	JAE Course Type	Aggregate Requirements		
1	Junior Colleges (2 years)	English/Higher Mother Tongue (L1)	5 Relevant Subjects (R5)	L1R5 less than or equal to 20 <b>*see Table 1 for subject requirements</b>
2	Millennia Institute (3 years)	English/Higher Mother Tongue (L1)	4 Relevant Subjects (R4)	L1R4 less than or equal to 20 <b>*see Table 1 for subject requirements</b>
3	Polytechnic (3 years)	English (EL)	2 Relevant Subjects (R2) & 2 Best Subjects (B2)	ELR2B2 less than or equal to 26 points <b>*see Table 2 for course computation</b>
4	ITE courses (Higher Nitec) – For students taking GCE “O” Level.	English (EL)	Best 4 other subjects (B4)	For Early Childhood, Wellness Mgt and Hospitality
			1 Relevant (R1) [EMath/Add Math/POA] Best 3 other subjects (B3)	For Business course
			2 Relevant (R2) [EMath/Add Math] or [Science/D&T/Computer Studies] Best 2 other subjects	For Science and Technology Courses
5	ITE courses (Nitec)	English (EL)	1 Relevant Subject (R1)	3 GCE ‘N’ Passes in EL and two other subjects* Or 2 GCE ‘O’ Grades (Grade 1-8) in any two subjects <b>*Depending on courses</b>
6	DPP & PFP (For NA students)	PFP - ELMAB3 is <u>12 points or better</u> (excluding CCA bonus point) and meet the minimum entry requirements. DPP – ELMAB3 is <u>19 points or better</u> (excluding CCA bonus point) and meet the minimum entry requirements.		

Students are to refer to the JAE & JIE booklet (Annex A) for more information on the admission requirements.



## SECTION 4 CHARTING MY POST-SECONDARY OPTIONS

**Table 1 - Subject Admission Criteria to JC and MI**

Subject	Requirement
English Language	A1 to C6
Mother Tongue Language	A1 to D7
OR Higher MTL OR Mother Tongue 'B' Syllabus	A1 to E8 Merit or Pass
Mathematics	A1 to D7
OR Additional Mathematics	A1 to D7

**Table 2 – Computation of ELR2B2 for Polytechnic**

Aggregate Type		ELR2B2- A (Arts, Media Humanities)	ELR2B2- B (Business)	ELR2B2- C (Science & Technology)	ELR2B2- D (Design, Graphic and Animation)
EL		English Language			
R2	1 <sup>st</sup> gp of Relevant Subjects	Arts Humanities Higher Music Higher Art	Elementary Math (EMath)/ Additional Math (AMath)		
	2 <sup>nd</sup> gp of Relevant Subjects	Arts Humanities Mother Tongue EMath AMath D&T F&N POA Music Tamil	Arts Humanities POA Music	Chemistry Biology Physics Science (Phy,Chem) Science(Chem,Bio) D&T F&N	Art Chemistry Biology Physics Science (Phy,Chem) Science(Chem,Bio) D&T F&N
B2	Best 2 other subjects excluding CCA				

## SECTION 4 CHARTING MY POST-SECONDARY OPTIONS

### DPP and PFP Requirements

Program	Minimum Entry Requirement	
PFP	<u>For Group 1 Courses (Engineering, Built Env, Media &amp; Design, Health Sciences, Info &amp; Digital Tech, Applied Sciences, Maritime Studies)</u> <ul style="list-style-type: none"> <li>• Grade 1-3 in EL &amp; Math</li> <li>• Grade 1-3 in one relevant subject</li> <li>• Grade 1-3 in any two other subjects</li> </ul>	<u>For Group 2 Courses (Business &amp; Management, Humanities, Mass Communication)</u> <ul style="list-style-type: none"> <li>• Grade 1-2 in EL</li> <li>• Grade 1-3 in Math</li> <li>• Grade 1-3 in one relevant subject</li> <li>• Grade 1-3 in any two other subjects</li> </ul>
DPP	<u>For Applied Sciences, Engineering, Info-Comms Technology</u> <ul style="list-style-type: none"> <li>• Grade 1-4 in EL &amp; Math</li> <li>• Grade 1-5 in the 3 other subjects</li> </ul>	<u>For Business &amp; Services</u> <ul style="list-style-type: none"> <li>• Grade 1-3 in EL</li> <li>• Grade 1-4 in Math</li> <li>• Grade 1-5 in the 3 other subjects</li> </ul>

For N(A) students whom have sat for certain subject(s) in the GCE O Level examination, the following conversion matrix will be adopted during the computation of aggregate.

GCE O Level Grade	Aggregate point for PFP
A1 – B3	1
B4 – C6	2
D7	3

## SECTION 4 CHARTING MY POST-SECONDARY OPTIONS

### 4.3 Bonus Points

Bonus points are given to students in the computation of their net aggregate scores. The table below provides details for the computation of bonus points.

S/N	Types of Bonus Points	No. of Bonus Points	Maximum Bonus Points Allowable
1	<u>CCA</u> For students seeking admission to JC/MI/Polytechnic/ITE and with the following co-curricular attainments a. Excellent b. Good	2 points 1 point	Limited to a maximum of 4 Bonus Points for these 3 types
2	<u>Higher MTL</u> For students seeking admission to JC/MI courses and with grades of A1 to C6 in both their first languages (i.e. English and a Higher Mother Tongue). This is provided that these choices come before any Polytechnic/ITE choices.	2 points	
3	<u>Third Language</u> For students seeking admission to JC/MI courses and with grades of A1 to C6 in Malay/Chinese (Special Programme) (MSP/CSP) or Bahasa Indonesia (BI) as their third language. This is provided that these choices come before any Polytechnic/ITE choices	2 points	

#### 4.4 Key ECG Considerations

How can you make good choices in your education and career options?

##### 1. Discover Who You Are

- Get to know your **interests**, **abilities** and **passion** and how to use them to contribute meaningfully to society through your future professions.
- You will then seek the **academic qualifications** needed to fulfil your aspirations.
- Use the **Riasec code** in MySkillsFuture portal to discover more about yourself.

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*Based on her interest and aspirations, Rachel can consider choosing Chemistry and Biology in her subject combination.*

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*I love animals and I aspire to become a vet to take care of them!*



Rachel

*I am good at Math and I am intrigued by how things work. But I am unsure of what I want to do in the future.*



Lewis

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*Based on what he is good at, Lewis can consider choosing Additional Math and Physics in his subject combination.*

## 2. Navigate Pathways with Confidence



- Explore the many possible **Education Pathways, Educational Institutions and courses.**
- Learn the **world of work** and read about **job roles and industries.**
- Understand the **academic requirements** for the post-secondary courses. E.g aggregate and cut-off points.

## 3. Make Informed Decisions and Own Them

- Make decisions **based on your interests, attributes, and aspirations** while considering current and future career opportunities.
- Speak to your **parents/teachers/Education and Career Guidance (ECG) officer, School Counsellor, relatives and experts** about your interests, aspirations and future career opportunities.
- **Set goals** and **take positive steps** towards fulfilling them.



## 4. Keep Learning. Be Resilient.

- Develop **21<sup>st</sup> century competencies** and establish **sound values** as you take steps towards your aspirations.
- Be **resilient** and believe in yourself to cope with stress and difficulties as you manage the subject combination of your choice.
- Stay **adaptable** when things don't go as planned. You may not get the subject combination of your choice but **stay positive** and rethink your options.



## 5. Sense of Purpose



- Develop Ikigai, the Japanese secret to a long and happy life.
- Encompass **joy, well-being** and a sense of **purpose** in everything you do.

<b>What you LOVE</b>	<b>What you are GOOD at</b>	<b>What the World NEEDS</b>	<b>What you can be PAID FOR</b>
This refers to your <b>interest</b> and <b>passion</b> that gives you a <b>strong purpose</b> to keep you motivated in what you want to do.	This refers to a <b>talent</b> that you have or something that you are <b>willing to put the time and effort to excel</b> in it.	This is about how your ability and passion can <b>benefit the world needs and society</b> around you.	This refers to the <b>rewards</b> of the profession. E.g money, job satisfaction, recognition, values such as righteousness, compassion etc

By considering these four aspects, one can lead **MOTIVATED PURPOSEFUL** lives, achieve **GREATER SATISFACTION** and **HAPPINESS** in life.

## SECTION 4 CHARTING MY POST-SECONDARY OPTIONS

Examples of how Ikigai is applied in real-life.

1

Ali loves to play with Lego blocks since young and he aspires to be an architect. **[LOVE]** He is creative and often comes up with new ideas of block creations. **[GOOD at]** He would like to be able to design modern buildings that have smart living features to enhance well-being for the residents. **[NEEDS]** He works hard to pursue his aspiration and do well academically. He is satisfied that the pay of an architect is enough for his needs and most importantly it is the fulfilment that he will enjoy from his job. **[PAID FOR]**



Susan has always aspired to work in a hotel industry. **[LOVE]** She likes to interact with people and is well-liked by her peers. **[GOOD at]** The reason why she likes to work in a hotel because

2



she feels that she can contribute to the well-being of tourists and make their stay a pleasant one. **[NEEDS]** She did her research and discovered that she can do hotel and tourism courses at Ngee Ann Polytechnic and Temasek Polytechnic. She knows that she will enjoy her job and knowing that the hoteliers will be well taken care by her gives her a great feeling of satisfaction. **[PAID FOR]**

3

Huifen is the eldest in her family. Since young, she has helped to take care of her four siblings. She discovered that she is kind and patient and is naturally good with young children. **[GOOD at]** She aspired to be a childhood educator **[LOVE]** and hopes that she can help to take care of young children to serve the needs of working parents. **[NEEDS]**

Huifen continued to work hard academically to achieve her aspiration in Polytechnic and graduated with a diploma in childhood education. She is now happily working as a childhood educator which gives her a lot of satisfaction and she can shower her love and kindness in her job. **[PAID FOR]**



## SECTION 4 CHARTING MY POST-SECONDARY OPTIONS

### 4.5 Be Proactive. Take action

Having a plan is not enough, one needs to be **proactive**, **stay focused**, **set objectives** and **take action** to achieve your goals. Here is a checklist to guide you when choosing your subject combination.





S/N	Steps	Actions to take	Done
1	Explore and decide on your post-secondary options	<ul style="list-style-type: none"> <li>Visit Myskillsfuture portal</li> <li>Visit the websites of JCs/Polys/ITE</li> <li>Browse the JAE booklet and JIE booklet</li> <li>Browse the different pathways to post-secondary institutions</li> </ul>	<input type="checkbox"/>
2	Write down the reasons for your choice	<ul style="list-style-type: none"> <li>Write down your interest and aspirations and how they are connected to the post-secondary course of your choice</li> </ul>	<input type="checkbox"/>
3	Record the aggregate points/cut-off points required for the post-secondary course.	<ul style="list-style-type: none"> <li>Check out the aggregate points e.g. L1R5 for JC or ELR2B2 for poly</li> <li>Take note of the cut-off points and minimum requirements.</li> </ul>	<input type="checkbox"/>
4	Subject combination that will help you get into a post-secondary course of your choice.	<ul style="list-style-type: none"> <li>Write down the subject combinations that will help you get in the post-secondary course of your choice</li> </ul> <p><u>Example</u></p> <ol style="list-style-type: none"> <li>1) English</li> <li>2) E. Math or A. Math</li> <li>3) Any pure science subject or Combined Science (e.g. Phy + Chem)</li> <li>4) Combined Humanities (e.g. Social Studies + Geography)</li> <li>5) Mother Tongue</li> <li>6) Elective courses (eg. D&amp;T, Art, F&amp;N, POA)</li> </ol>	<input type="checkbox"/>
5	List down what you need to do in order to get into the post-secondary course of your choice	<ul style="list-style-type: none"> <li>Do a reality check of your current grades</li> <li>Make a plan to do well in the subjects that are important to your post-secondary courses</li> <li>Develop your portfolio if you are considering Early Admissions Exercise(EAE)</li> </ul>	<input type="checkbox"/>





4.6 Choosing Your Subject Combination

In the spaces below, list two post-secondary options and the corresponding subject combinations. Provide reason(s) for your choices.

Option 1




Post-secondary institution(s)		
Post-secondary courses		
Industry of choice		
Subject combination that will help me get into the post-secondary course of my choice		
Reason(s) for choice		

Option 2







Post-secondary institution(s)		
Post-secondary courses		
Industry of choice		
Subject combination that will help me get into the post-secondary course of my choice		
Reason(s) for choice		












## SECTION 5 Annex A – USEFUL LINKS

### 1. JAE, JIE and ITE Course Booklets

S/N	Title	Link	QR code
1	JAE Booklet for admission to JC and Poly	<a href="https://www.moe.gov.sg/-/media/files/post-secondary/2022-jae-information-booklet.pdf">https://www.moe.gov.sg/-/media/files/post-secondary/2022-jae-information-booklet.pdf</a>	
2	JIE Booklet for admission to ITE	<a href="https://www.ite.edu.sg/docs/default-source/admissions-docs/full-time/publications/admission-booklet/gce-n-admission-booklet-2022.pdf">https://www.ite.edu.sg/docs/default-source/admissions-docs/full-time/publications/admission-booklet/gce-n-admission-booklet-2022.pdf</a>	
3	ITE Course Booklet	<a href="https://www.ite.edu.sg/docs/default-source/full-time-courses-doc/ite-course-booklet-2022">https://www.ite.edu.sg/docs/default-source/full-time-courses-doc/ite-course-booklet-2022</a>	












### 2. Websites of JC, MI, ITE, NAFA & LASALLE

S/N	Title	Link	QR code
1	Raffles Institution	<a href="http://www.ri.edu.sg/admissions/year-5-admissions">http://www.ri.edu.sg/admissions/year-5-admissions</a>	
2	Hwa Chong Institution	<a href="http://www.hci.edu.sg/admissions/college/academic-programmes-college">http://www.hci.edu.sg/admissions/college/academic-programmes-college</a>	
3	Temasek Junior College	<a href="https://www.temasekjc.moe.edu.sg/">https://www.temasekjc.moe.edu.sg/</a>	
4	Tampines-Meridian Junior College	<a href="https://tmjc.moe.edu.sg/">https://tmjc.moe.edu.sg/</a>	
5	Victoria Junior College	<a href="https://victoriajc.moe.edu.sg/">https://victoriajc.moe.edu.sg/</a>	
6	National Junior College	<a href="https://nationaljc.moe.edu.sg/">https://nationaljc.moe.edu.sg/</a>	

7	Anglo Chinese Junior College	<a href="https://acjc.moe.edu.sg/">https://acjc.moe.edu.sg/</a>	
8	Anderson Serangoon Junior College	<a href="https://asjc.moe.edu.sg/">https://asjc.moe.edu.sg/</a>	
9	Nanyang Junior College	<a href="https://nanyangjc.moe.edu.sg/">https://nanyangjc.moe.edu.sg/</a>	
10	St. Andrew Junior College	<a href="https://standrewsjc.moe.edu.sg/">https://standrewsjc.moe.edu.sg/</a>	
11	Yishun Innova Junior College	<a href="https://yijc.moe.edu.sg/">https://yijc.moe.edu.sg/</a>	
12	Eunoia Junior College	<a href="https://eunoiajc.moe.edu.sg/">https://eunoiajc.moe.edu.sg/</a>	
13	Jurong Pioneer Junior College	<a href="https://jpjc.moe.edu.sg/">https://jpjc.moe.edu.sg/</a>	
14	Millennia Institute	<a href="https://www.millennia institute.moe.edu.sg/">https://www.millennia institute.moe.edu.sg/</a>	
15	ITE	<a href="https://www.ite.edu.sg/">https://www.ite.edu.sg/</a>	
16	NAFA	<a href="https://www.nafa.edu.sg/">https://www.nafa.edu.sg/</a>	
17	LASALLE	<a href="https://www.lasalle.edu.sg/">https://www.lasalle.edu.sg/</a>	

## SECTION 5 Annex A – USEFUL LINKS

### 3. Admission to University Links

S/N	Title	Link	QR code
1	NUS (A-Level requirements)	<a href="http://www.nus.edu.sg/oam/apply-to-nus/singapore-cambridge-gce-a-level/subject-pre-requisites">http://www.nus.edu.sg/oam/apply-to-nus/singapore-cambridge-gce-a-level/subject-pre-requisites</a>	
2	NUS (Poly requirements)	<a href="http://www.nus.edu.sg/oam/apply-to-nus/polytechnic-diploma-from-singapore/subject-pre-requisites">http://www.nus.edu.sg/oam/apply-to-nus/polytechnic-diploma-from-singapore/subject-pre-requisites</a>	
3	NTU (A-Level requirements)	<a href="https://www3.ntu.edu.sg/oad2/website_files/Alevel/Min_Subject_Requirements.pdf">https://www3.ntu.edu.sg/oad2/website_files/Alevel/Min_Subject_Requirements.pdf</a>	
4	NTU (Poly requirements)	<a href="https://wis.ntu.edu.sg/webexe/owa/adm_appl.relevant_diploma?student_type=F">https://wis.ntu.edu.sg/webexe/owa/adm_appl.relevant_diploma?student_type=F</a>	
5	SUTD (A-Level requirements)	<a href="https://www.sutd.edu.sg/Admissions/Undergraduate/Application/Admissions-Requirements/Singapore-Cambridge-GCE-A-Level">https://www.sutd.edu.sg/Admissions/Undergraduate/Application/Admissions-Requirements/Singapore-Cambridge-GCE-A-Level</a>	
6	SUTD (Poly requirements)	<a href="https://www.sutd.edu.sg/Admissions/Undergraduate/Application/Admissions-Requirements/Local-Polytechnic-Diploma">https://www.sutd.edu.sg/Admissions/Undergraduate/Application/Admissions-Requirements/Local-Polytechnic-Diploma</a>	
7	SUSS	<a href="https://www.suss.edu.sg/full-time-undergraduate/admissions/eligibility">https://www.suss.edu.sg/full-time-undergraduate/admissions/eligibility</a>	
8	SMU (A-Level requirements)	<a href="https://admissions.smu.edu.sg/admissions/singapore-cambridge-gce-a-level">https://admissions.smu.edu.sg/admissions/singapore-cambridge-gce-a-level</a>	
9	SMU (Poly requirements)	<a href="https://admissions.smu.edu.sg/admissions/polytechnic-diploma-singapore">https://admissions.smu.edu.sg/admissions/polytechnic-diploma-singapore</a>	
10	SIT (A-Level requirements)	<a href="https://www.singaporetech.edu.sg/a-levels">https://www.singaporetech.edu.sg/a-levels</a>	
11	SIT (Poly requirements)	<a href="https://www.singaporetech.edu.sg/polytechnic-diplomas">https://www.singaporetech.edu.sg/polytechnic-diplomas</a>	

End