

Secondary 3

Subject Combinations 2021

10 March 2020

Purpose of Briefing

- To inform Secondary 2 students about the tentative proposed subject combinations that are offered in 2021 and the pre-requisites needed for certain subjects
- To allow students to be aware of pre-requisites early so that they can plan ahead and set goals for their selection of Sec 3 subject combination at the end of the year

Objectives

- Provide information on the
 - Pre-requisite of subjects
 - Tentative subject combination offer for 2021
 - Post Secondary Pathways
- Help parents and students make informed decisions
- Provide platform for dialogue and clarification on the subject combination

Outline

- Sec 2 Assessment Structure
- Promotion Criteria
- Post-Secondary Education Admission Criteria
- Tentative Subject Combination
- Pre-requisite of subjects
- Schedule of Events

Sec 2 Assessment Structure

All subjects, except D&T and FCE

Semester 1		Semester 2	
Term 1	Term 2	Term 3	Term 4
WA 15%	Mid-Year Exam 25%	WA 15%	End of Year Exam 45%
40%		60%	

For FCE and D&T

Semester 1 (FCE)			Semester 2 (D&T)		
Term 1	Term 2		Term 3	Term 4	
WA 15%	WA 15%	Practical Project 70%	WA 10%	WA 10%	Practical Design Project 80%
100%			100%		

Promotion Criteria to Sec 3

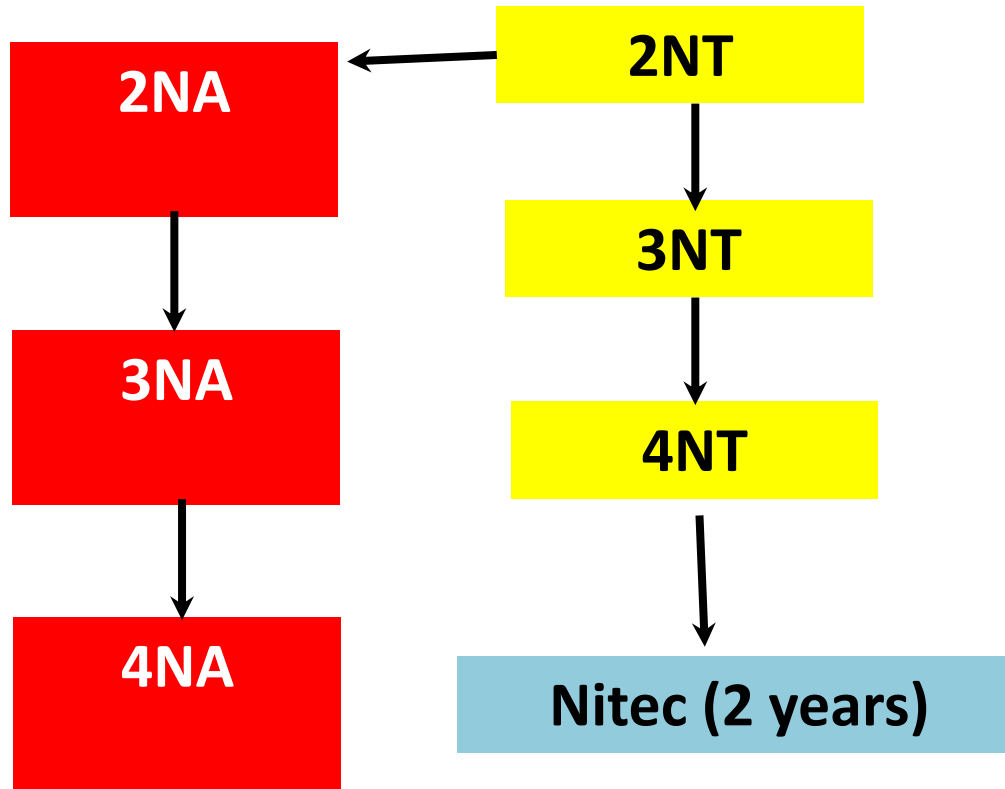
	Minimum attainment level
Sec 2 Express	Pass in English <u>AND</u> Pass in overall percentage of <u>all</u> subjects combined.
Sec 2 NA	Pass in a) English and 2 other subjects, <u>or</u> b) 4 subjects
Sec 2 NT	Grade 5 or better in a) English <u>or</u> Mathematics, and 1 other subject

Note

- Students who fail may be laterally transferred to a less demanding stream.
- Non-Tamil Indian Languages are excluded from school based examinations for computation of overall results.

N(T) Students

Pathways for N(A) students



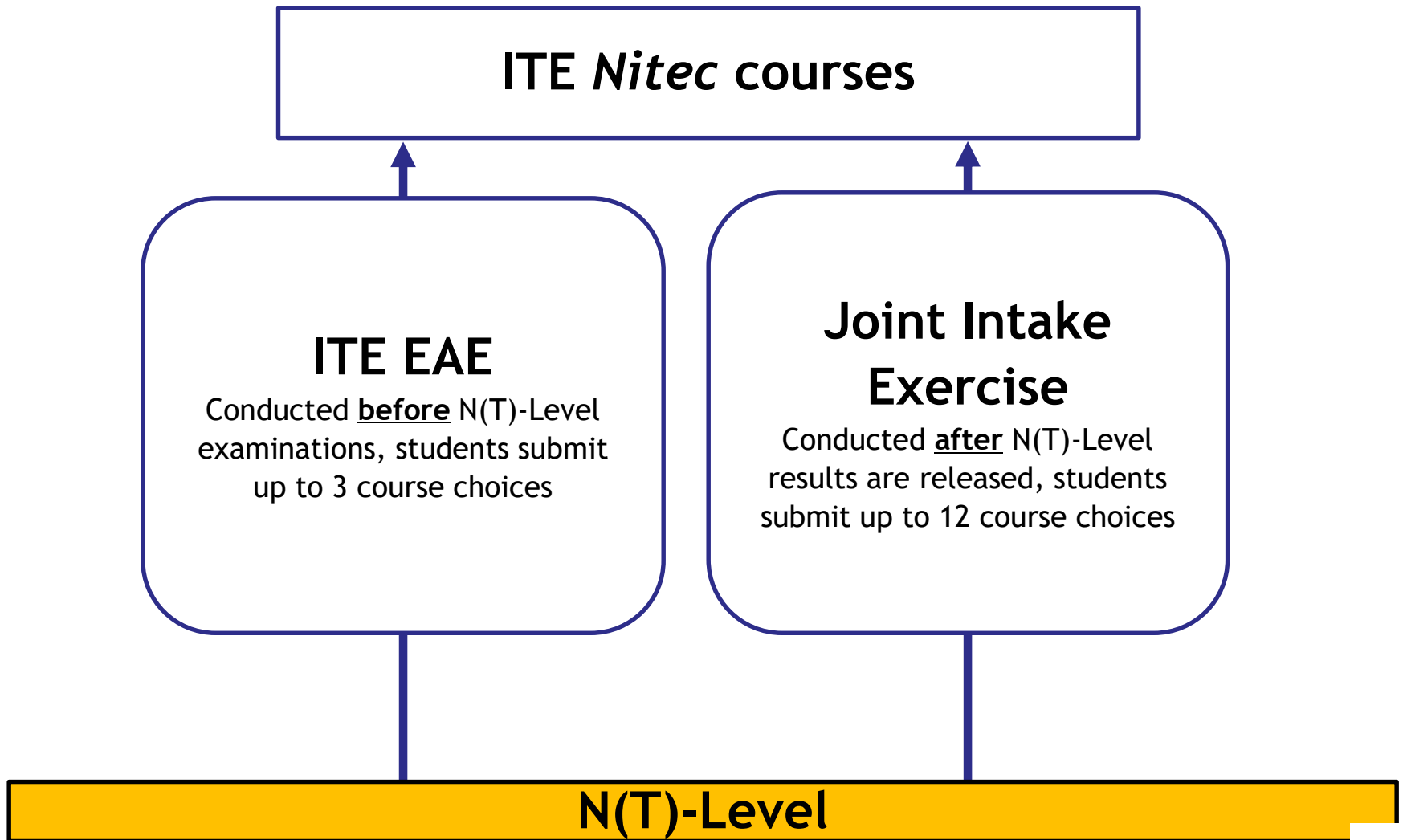
Laterally transfer to a more demanding stream

A good pass in 2 subjects (one of which must be English or Mathematics) **and**

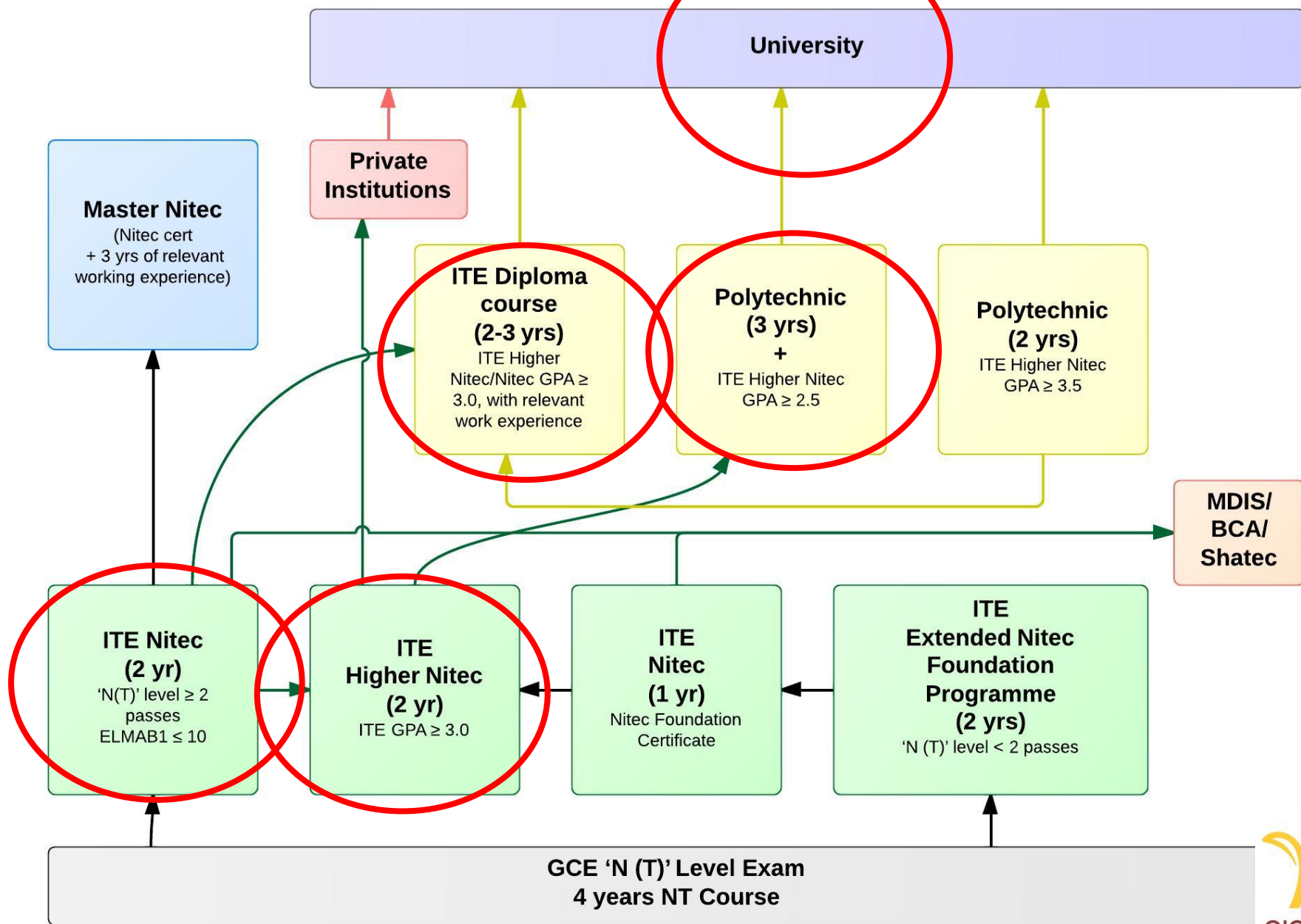
70% or higher in the overall percentage of all subjects. *

Students must be deemed able to cope with the more demanding course. Only through teachers' recommendation.

Post-Sec Pathways for N(T)-Level Students



Education Pathways for NT students



ITE admission

- Different categories of *Nitec* courses come with different entry requirements ranging from completed GCE 'N' Level to 3 GCE 'N' Level passes.
- Admission is merit-based, and posting to a course is based on aggregate of best 4 GCE 'N' Level subjects, including pre-requisite subjects and bonus points where applicable and is subjected to availability of vacancies.
- Selected courses will require applicants to attend interview/aptitude test.

Computation of ITE Aggregate Points for **N(T) Subjects** to full-time NITEC courses

Normal (Technical) Grade	ITE Aggregate Points
A	1
B	2
C	3
D	4
U	5

Computation of ITE Aggregate Points for **N(A) Subjects** to full-time **NITEC** courses

Normal (Academic) Grade	ITE Aggregate Points
1, 2	1
3	2
4	3
5	4
U	5

<https://www.ite.edu.sg/docs/default-source/admissions-docs/full-time/publications/admission-booklet/gce-n-admission-booklet-2020.pdf>

Tentative Subject Combination

Criteria for Allocation of Subject Combination

Students are allocated based on:

1. Merit (overall percentage in Sec 2, Subject eligibility criteria)
2. Choice (subject to meeting pre-requisites of selected subject combinations/ subjects where relevant)
3. Vacancy and resources (take up rate, availability of teachers)

Guidelines

- The minimum number of subjects to be offered at GCE N-Level is 5.
- Take note of Subject-specific requirements (refer to booklet)
- No appeal will be entertained when a student is given the first choice.

Normal (Technical) Stream

6 Subjects Combination

Subject option	3T1	3T2
1	English	English
2	Basic Mother Tongue	Basic Mother Tongue
3	Mathematics	Mathematics
4	Science	Science
5	Computer Applications	Computer Applications
6	Smart Electrical Technology	Retail Operations
Remarks	It is strongly advised that students with colour-appreciation deficiency should not opt for this subject.	---

Note: Normal Technical students will also be taking Social Studies as a non-examinable subject

Smart Electrical Technology (SET)

3 hrs per
week

Aims to equip students with the basic knowledge of electrical circuits and systems and skills in planning and designing a smart home using internet-and-phone enabled home automation technology/systems.

Electrical Principles and Circuits



- Electric Circuits Laws, Power and Energy in an Electrical Circuit, Electrical Hazards and Protection, Electric Cables, Electrical Test Instruments and Conventional Lighting Circuit.

Home Automation



- Home Automation Basics, Wireless Networks and radio frequency, Installing and Programming Devices.
- Installing relevant mobile apps, Control of electrical and security equipment/systems via mobile phone.

Related *Nitec* Courses

- Electrical Technology
- Facility Technology
- Electronics

Related *Nitec* Courses

Nitec in Electrical Technology College East and West



Nitec in Mechatronics & Robotics College West



Nitec in Electronics College Central, East and West

Images obtained from www.ite.edu.sg



Example of Cut Off points for ITE

Aerospace Machining Technology ①⑧ <i>In view of the nature of work in the Precision Engineering Industry, applicant should possess good work attitudes, safety awareness, a sense of responsibility and a strong interest for manufacturing of aerospace parts. Shortlisted applicants have to attend an interview and aptitude test scheduled on Fri 27 Dec 19 or Mon 30 Dec 19.</i>	NFAMZ	CC-AM	17	3 GCE 'N' Passes (Grade A-D or Grade 1-5) in Mathematics or Science* and two other subjects Or 2 GCE 'O' Grades (Grade 1-8) in any two subjects * Mobile Robotics and Smart Electrical Technology subjects can be used in lieu of Science for admission to these <i>Nitec</i> courses
Digital & Precision Engineering ⑧	NFDPE	CC-AM	16	
Mechatronics & Robotics ②⑧ <i>(Also offered under Traineeship)</i>	NFMCR	CC-AM CW-CK	14 16	
Rapid Transit Technology ①②⑦ <i>Shortlisted applicants have to attend an interview and aptitude test scheduled on Fri 27 Dec 19 or Mon 30 Dec 19.</i>	NFRTZ	CW-CK	15	

Cut off points after bonus points

Minimum entry requirement

Smart Electrical Technology

Overview

- Electrical Principles and Conventional Lighting
- Home Automation

Electrical Principles and Conventional Lighting

- Basic Electricity Principles
- Connection of simple residential lighting circuits

Home Automation

- Common Technology in Home Automation
- Installing and programming smart control of lighting circuits in homes

Assessment

Practical Assessment at End of Secondary 3

Theory Examination at End of Secondary 4

Practical Assessment at End of Secondary 4

How are MOE-ITE AS assessed (SET)?

- Written and practical components constituting **30% and 70%** respectively of the final score

Paper	Mode	Weighting	Period of assessment
1	Written	30 %	Oct - Sec 4
2	Practical	30 %	Sep - Sec 3
3	Practical	40 %	Sep - Sec 4

- Scheduled within the GCE N-Level Examination Timetable each year

Certification & ITE Admission

- Jointly certified by MOE and ITE
- Considered as equivalent to an N-level subject for admission to ITE Nitec courses
- SET can be used in lieu of N(T) Science for admission into **selected** *Nitec* Science & Technology courses that require a pre-requisite pass in Science/Maths.

List of *Nitec* Courses

<i>Nitec</i> Course	School
Electronics, Computer Networking & Communications	Electronics & Info-comm Technology
Electronics & Internet of Things	
Infocomm Technology	
Microelectronics	
Web Applications	
Aerospace Machining Technology	Engineering
Digital & Precision Engineering	
Mechatronics & Robotics	
Rapid Transit Technology	

List of *Nitec* Courses

<i>Nitec</i> Course	School
Applied Food Science	Applied & Health Sciences
Chemical Process Technology	
Community Care & Social Services	
Opticianry	
Fashion Apparel Production & Design	Design and Media
Video Production	

Retail Operations (RO)

3 hrs per week

Aims to equip students with the basic knowledge, skills and values relevant for employment in small, medium to large retail establishments.

Handling Retail Operations



- Types of Retail Stores
- Perform House-keeping and Cashier Duties
- Operations of Merchandise

Selling Products and Services



- Maintain a professional image
- Identify customer needs
- Handling customer objections

Interacting with Customers



- Provide Customer Service
- Perform Service Recovery

Related Nitec Courses

- Service Skills (Retail)
- Services (Office)

Related Nitec Courses

Nitec in Retail Services
College Central, East and West



Nitec in Business Services
College Central, East and West



Images obtained from www.ite.edu.sg



Nitec in Retail Services

College	2019 JIE 'N' ITE Aggregate Point (based on 4 subjects)	Minimum Entry Requirements
CC-AM	9	Completed GCE 'N' Level Or Completed GCE 'O' Level
CE-SM	-	
CW-CK	9	

Cut off points after bonus

<https://www.ite.edu.sg/docs/default-source/admissions-docs/full-time/publications/admission-booklet/gce-n-admission-booklet-2020.pdf>

Retail Operations

(Simulated Retail Workplace Setting)

Assessment

Handling Retail Operations

- 7 units
- e.g. Types of Retail Stores, Perform House-keeping and Cashier Duties, Operations of Merchandise

Practical
Assessment
at End of
Secondary 3

Selling Products and Services

- 4 units
- e.g. Maintain a professional image, Identify customer needs and Handling customer objections

Practical
Assessment
at End of
Secondary 4

Interacting with Customers

- 2 units
- e.g. Provide Customer Service and Perform Service Recovery

Theory
Examination
at N Levels

How are MOE-ITE AS assessed (RO)?

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Certification & ITE Admission

- Jointly certified by MOE and ITE
- Considered as equivalent to an N-level subject for admission to ITE Nitec courses

What's next? (For Students)

- Discuss with parents and teachers
- Consistent work throughout the year
- Monitor progress against set target
- Select their preferred subject combination in Oct

Ask yourself (For students)

- **Who am I? (Decision-making)**
 - RIASEC
 - Interests, Strengths and Abilities
- **Where am I going?**
 - Where do your subjects lead to?
 - Pre-requisites? Relevant subjects
- **How do I get there?**
 - Plans A, B, C (alternative plans)
 - Talk to people (eg. Teachers/Parents/ECG Counsellor)
 - Participate in relevant activities/programmes to gain experiences

How parents can help

- Discuss with your child – his/her aspirations and advise accordingly
- Encourage your child to work hard to qualify for his/her preferred subject combination
- Monitor the performance of your child
- Discuss with Form/ Subject Teachers on your child's progress regularly

How to choose the subject combination that is best for your child

- Based on your child's ability
- Based on your child's preference
- Ensure that your child sets high but realistic targets

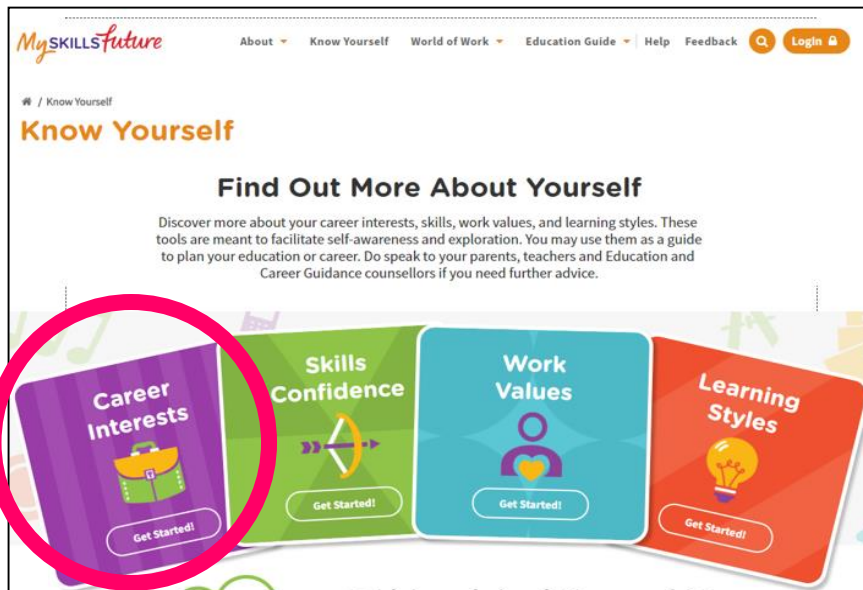
Useful ECG Resource

MySkillsFuture Portal

<https://www.myskillsfuture.sg/secondary>



A Know Yourself



B Browse Occupations






The **right subjects**

are your ticket to your
post secondary option
and it ultimately shape your
**career
possibilities.**

Know what your
**interests and
strengths are.**

Match them to your
**aspirations and goals
for the future.**



**Getting the right
match opens the
door to new
pathways for a
bright future.**

Schedule of Events

S/No	Event	Time Frame
1	Briefing for Sec 2 classes	10 March 2020, 11.10-12.00pm assembly slot
2	Briefing for parents	10 March 2020
3	Indication of Subject Combination Interest via Google forms for Sec 2 Classes	11-13 March 2020
4	Streaming Trial Exercise	Term 3
5	Release of EOY results	21 October 2020
6	Selection of Subject Combination and Online Submission of Option Forms	21 October 2020 to 27 October 2020 (2pm)
7	Release of allocation of subject combinations	10 November 2020 (1pm)
8	Appeal period for change in subject combination	10 to 12 November 2020 (1pm)
9	Release of Appeal Results for change of subject combinations	19 November 2020

Q&A

- For queries about **your child's progress**, please approach respective Form Teachers.
- For queries on **Subject Combinations**, please approach Ms Chew Mei Jun (Year Head, Lower Secondary), Ms Muhaina (Assistant Year Head, Lower Secondary)
chew_mei_jun@schools.gov.sg,
nurmuhaina_bte_bakar@schools.gov.sg

Q&A

- For queries on **specific subjects**, please approach respective Heads of Department.

Name/ Designation	Email
Mdm Saheedah Begum (HOD/EL)	saheedah_begum@schools.gov.sg
Mdm Azizah Bte Abdul Rahim (HOD MTL)	azizah_abdul_rahim@schools.gov.sg
Mr Tan Swee Kiang Desmond (HOD/Maths)	tan_swee_kiang_desmond@schools.gov.sg
Mdm Shahizah Mohd (HOD/Science)	shahizah_mohd@schools.gov.sg
Ms Yue Kah May, Audrey (HOD/Humanities)	yue_kah_may_audrey@schools.gov.sg
Mr Chiu Bang Ern, Glynne (HOD/NT)	chiu_bang_ern_glynne@schools.gov.sg
Mdm Annie Tan (HOD/C&T)	tan_kok_ping@schools.gov.sg

Useful links

- JAE booklet 2020

<https://www.moe.gov.sg/docs/default-source/document/education/admissions/jae/files/booklet.pdf>

- JIE booklet 2020

<https://www.ite.edu.sg/docs/default-source/admissions-docs/full-time/publications/admission-booklet/gce-n-admission-booklet-2020.pdf>

- Direct-entry-scheme to Polytechnic (DPP)

<https://www.ite.edu.sg/admissions/full-time-courses/higher-nitec/direct-entry-scheme-to-polytechnic-programme>

- Polytechnic Foundation Programme (PFP)

https://pfp.polytechnic.edu.sg/PFP/pfp_introduction.html

Useful links

- Direct School Admission – JC

<https://www.moe.gov.sg/admissions/direct-admissions/dsa-jc>

- POLYTECHNIC EARLY ADMISSIONS EXERCISE (POLY EAE)

<https://www.moe.gov.sg/admissions/direct-admissions/eae>

- ITE Early Admissions Exercise (ITE EAE)

<https://www.moe.gov.sg/admissions/direct-admissions/ite-eae>

- Minimum Subject Requirement for NTU courses (A level students)

https://www3.ntu.edu.sg/oad2/website_files/Alevel/Min_Subject_Requirements.pdf

- Relevant diploma list from NTU (polytechnic/ diploma students)

https://wis.ntu.edu.sg/webexe/owa/adm_appl.relevant_diploma?student_type=F

Useful links

- NTU Indicative Grade Profile for Singapore-Cambridge GCE 'A' level and Polytechnic Applicants

<https://admissions.ntu.edu.sg/UndergraduateAdmissions/Pages/IndicativeGradeProfile.aspx>

- Subject pre-requisites in NUS (A level students)

<http://nus.edu.sg/oam/apply-to-nus/singapore-cambridge-gce-a-level/subject-pre-requisites>

- Subject pre-requisites in NUS (Polytechnic/ diploma students)

<http://nus.edu.sg/oam/apply-to-nus/polytechnic-diploma-from-singapore/subject-pre-requisites>

- NUS Indicative Grade Profile for Singapore-Cambridge GCE 'A' level and Polytechnic Applicants

[http://www.nus.edu.sg/oam/undergraduate-programmes/indicative-grade-profile-\(igp\)](http://www.nus.edu.sg/oam/undergraduate-programmes/indicative-grade-profile-(igp))

Computation of Bonus Points

S/No	Type of Bonus Points	No. of Bonus Points	Maximum Bonus Points Allowable	
1	For students seeking admission to JC/MI/Polytechnic/ITE and with the following co-curricular attainments/grades: a. Excellent, A1 – A2 b. Good, B3 – C6	2 points 1 point	Limited to a maximum of 4 Bonus Points for these 4 types.	Limited to a maximum of 6 Bonus Points .
2	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	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	For students from feeder schools if they choose their affiliated Junior College course(s) as their: a. 1 st choice, <u>or</u> b. 1 st and 2 nd choices.	2 points		
5	For students who have applied for the CLEP, MLEP or TLEP and have been selected for the programme.	2 points		

For Parents/ Guardians, we value your feedback

- go.gov.sg/pyscb2020

