



# **Subject Combinations for Secondary 3 2022**

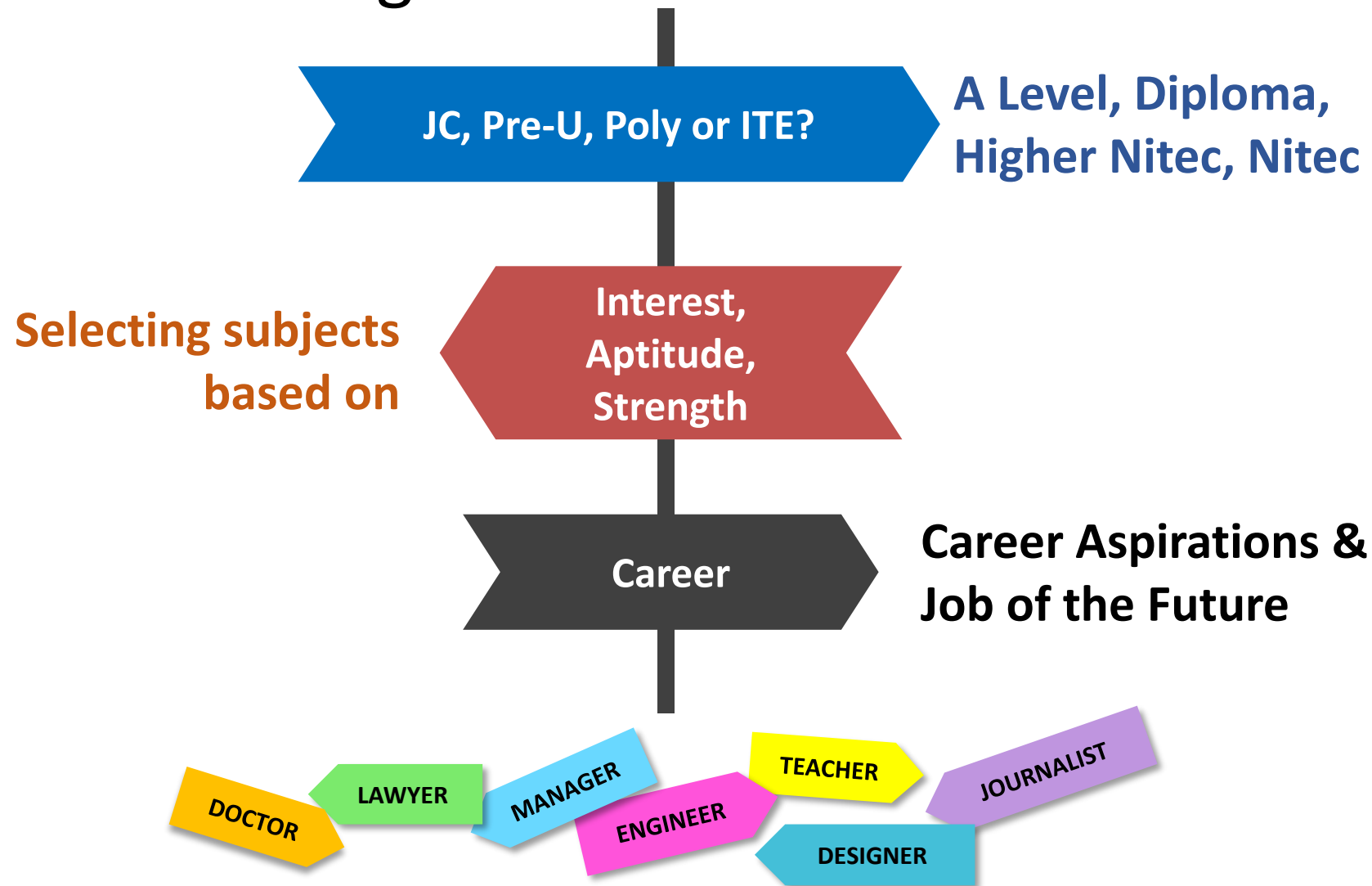


**Mr. Ng Jenn Yang**  
**Head of Department**  
**Information Communication Technology**



## Sec 2 Streaming Exercise

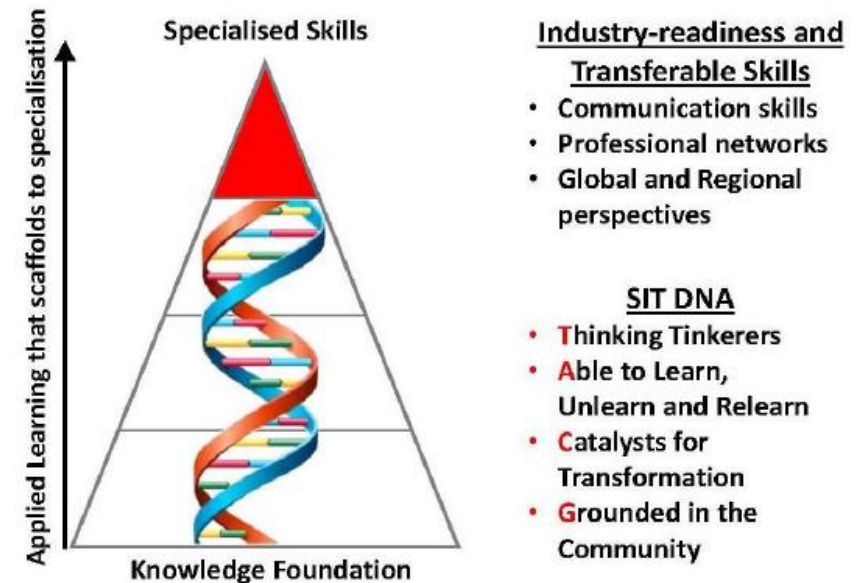
Considerations



# Future Skills in Post-Secondary Study and Work

## DBS Partners AWS To Future-Proof Employees With AI & Machine Learning Skills

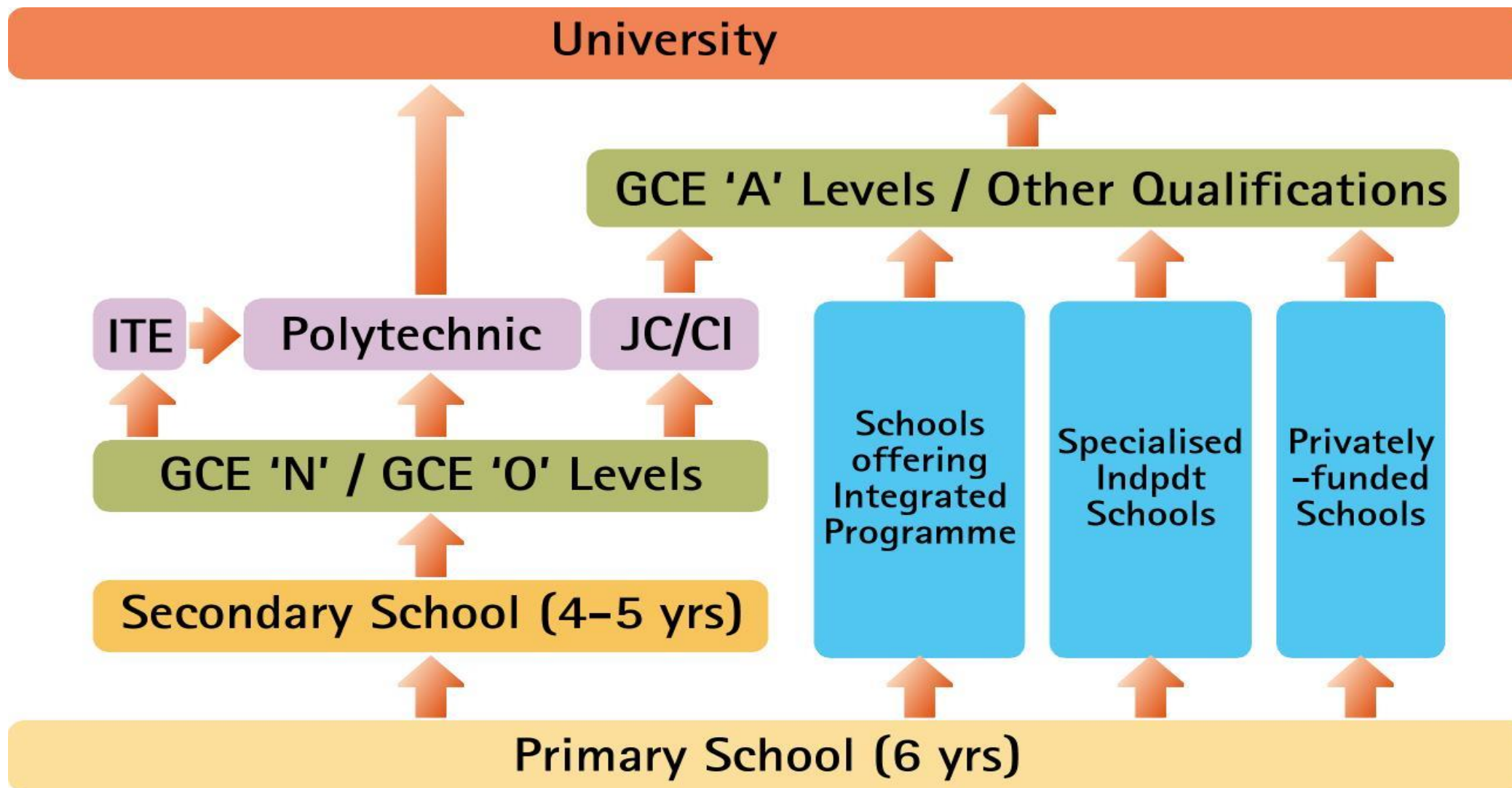
by Fintechnews Singapore / August 18, 2020



Singapore Institute of Technology DNA



# Multiple Pathways in Education





# What are the various Post-Secondary School options available?

## 3 MAIN TYPES OF OPTIONS

### 1. Junior Colleges (JCs) or Millennia Institute

Prepares students for the GCE  
'A' level examination



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

Equips students with technical  
knowledge and skills relevant to the  
industry.

### 2. Polytechnics / LaSalle / NAFA

Trains students with relevant skills for the  
workplace in a knowledge-based economy.



**FOR STUDENTS ON N-LEVEL COURSE  
(NORMAL (ACADEMIC) & NORMAL (TECHNICAL))**

# **What are your options after N Levels?**

- 1. Poly Foundation Programme (PFP)**
- 2. Direct-Entry-Scheme to Poly Programme (DPP)**
- 3. ITE Nitec Programme**
- 4. Progress to Sec 5**





# POLYTECHNIC PATH





# Range of Polytechnic courses



Extracted from  
Ngee Ann Polytechnic  
website

<https://www.np.edu.sg/diplomasforolevel/Pages/default.aspx>

# Polytechnic Foundation Programme **1** (PFP)

- One of the two through-train pathways to polytechnics for N(A) students
- An alternative to Sec 5
- A diploma-specific foundation programme conducted over two academic semesters at polytechnics



<https://pfp.polytechnic.edu.sg/PFP/index.html>



## Criteria for PFP

- (a) Top 10% of the Sec 4N(A) national cohort
- (b) **12** points or less for EMB3 aggregate (*before* deduction of CCA bonus points)
- (c) At least N(A)-level **grade 3** for **all** subjects used in the computation of ELMAB3 (*certain courses require an EL grade of 2*)
- (d) Eligible students will be given the option to apply *after* the release of the GCE 'O' Level results in January the year they graduate from Sec 4N(A) (*students applying for PFP must first progress to Sec 5NA*)





## Criteria for PFP

For Courses featured in <b>Group 1</b>	Minimum Required Grades
English Language Syllabus A	<b>3</b>
Mathematics Syllabus A / Additional Mathematics	<b>3</b>
One of these relevant subjects: - Design and Technology - Food and Nutrition - Science (Chemistry, Biology) - Science (Physics, Biology) - Science (Physics, Chemistry)	<b>3</b>
Any two other subjects excluding CCA	<b>3</b>

### Group 1 Courses

- Applied Sciences
- Built Environment
- Business & Management\*  
*(\*some courses classified under Group 2)*
- Engineering
- Health Sciences
- Information & Digital  
Technologies
- Maritime Studies
- Media & Design

\*RP: Aviation Mgt, Ind & Ops Mgt, Supply  
Chain Mgt

\*TP: Aviation Mgt, Biz Processes & Sys Engr,  
Financial Biz Informatics



## Criteria for PFP

For Courses featured in <b>Group 2</b>	Minimum Required Grades
English Language Syllabus A	<b>2</b>
Mathematics Syllabus A / Additional Mathematics	<b>3</b>
One of these relevant subjects: - Art - Literature in English - History - Combined Humanities - Geography - Principles of Accounts	<b>3</b>
Any two other subjects excluding CCA	<b>3</b>

### Group 2 Courses

- Business & Management
- Humanities
- Media & Design\*\*

*(\*\*some courses classified under Group 1)*

\*\*NP: Chinese Media & Comm; Film, Sound & Music; Mass Comm; Media Post-Production

\*\*RP: Arts & Theatre Mgt; Mass Comm; Media Production & Design

\*\*SP: Media & Comm

# Direct-Entry-Scheme to Polytechnic Programme (DPP)

- DPP allows 4N(A) students to be admitted directly to a 2-year **Higher Nitec** programme without having to sit for the O Level examinations or undergo a **Nitec** programme.
- Students who successfully complete the course and attain the required minimum qualifying **Higher Nitec** Grade Point Average (GPA) are guaranteed a place in one of the polytechnic diploma courses that are mapped to their **Higher Nitec** course.

<https://www.ite.edu.sg/admissions/full-time-courses/higher-nitec/dpp>



## Criteria for DPP

- Obtained an **EMB3** aggregate of **19** points or better (excluding CCA bonus points); **and**
- Met the course-specific entry requirements:
  - a) For **Applied Sciences, Engineering and Info-Communications Technology** courses:  
EL- **4**, Maths- **4**, any three other subjects (excluding CCA)- **5**
  - b) For **Business & Services** courses:  
EL- **3**, Maths- **4**, any three other subjects (excluding CCA)- **5**

## Progression to Poly from DPP



<i>Higher Nitec Courses</i>	For Progression to	
	<b>1st Year</b>	<b>2nd Year</b>
	of Relevant Polytechnic Diploma Course	
Applied Sciences #	Raw <i>Higher Nitec</i> GPA $\geq 2.5^{\wedge}$	N.A.
Engineering and Info-Communications Technology #	Raw <i>Higher Nitec</i> GPA $\geq 2.5^{\wedge}$	Raw <i>Higher Nitec</i> GPA $\geq 3.5^{\wedge}$
Business & Services	Raw <i>Higher Nitec</i> GPA $\geq 3.0^{\wedge}$	N.A.

<sup>^</sup>excluding CCA bonus pt <https://www.ite.edu.sg/admissions/full-time-courses/higher-nitec/dpp>



# Mapping of DPP Higher Nitec Courses to Poly Diploma Courses

2

Students admitted to *Higher Nitec* DPP courses in AY2020 are guaranteed a place in one of the polytechnic diploma courses<sup>1</sup> mapped to their *Higher Nitec* course shown below, provided they meet the following minimum qualifying GPA scores upon the completion of their *Higher Nitec* course:

<i>Higher Nitec</i> DPP Course <sup>[2]</sup>	Mapped Polytechnic Courses for articulation from <i>Higher Nitec</i> DPP Course	Offered by	Minimum Qualifying GPA <sup>[3]</sup>	
			Year 1 Entry <sup>[4]</sup>	Year 2 Entry <sup>[5]</sup>
Applied Sciences				
Chemical Technology	Biologics & Process Technology	NYP	2.5	-
	Chemical & Pharmaceutical Technology	NYP	2.5	-
	Nanotechnology & Materials Science	NYP	2.5	-
	Environmental Science	RP	2.5	-
	Pharmaceutical Sciences	RP	2.5	-
Engineering				
Civil & Structural Engineering Design	Architecture	NYP	2.5	-
	Industrial & Operations Management	RP	2.5	-
	Architecture	SP	2.5	-
	Civil Engineering (Previously known as Civil Engineering with Business)	SP	2.5	-
	Clean Energy	TP	2.5	-
	Green Building & Sustainability	TP	2.5	-
	Integrated Facility Management	TP	2.5	-
Electrical Engineering	Aerospace Engineering	NP	2.5	-
	Automation & Mechatronic Systems	NP	2.5	-
	Biomedical Engineering	NP	2.5	-
	Common Engineering Programme	NP	2.5	-
	Electrical Engineering	NP	2.5	3.5
	Electronic & Computer Engineering	NP	2.5	3.5

For the list of Polytechnic Diploma courses you can apply for under the Direct Entry Scheme to Polytechnic Programme (DPP), access

[https://www.ite.edu.sg/docs/default-source/admissions-docs/full-time/dpp/dpp-courses-to-polytechnic-mapping-for-dpp-2020-intake.pdf?sfvrsn=3d85ee13\\_2](https://www.ite.edu.sg/docs/default-source/admissions-docs/full-time/dpp/dpp-courses-to-polytechnic-mapping-for-dpp-2020-intake.pdf?sfvrsn=3d85ee13_2)



Applicable  
to both 4NA  
& 4NT  
students!

**EAE**

Early Admissions Exercise

3

- provides students **conditional offers** for admission to ITE **prior** to receiving their final grades
- provides students **conditional offers** for admission to ITE **prior** to receiving their final grades  
students selected based on their aptitudes, interests, relevant work experience and achievements in sports, arts, leadership, entrepreneurship and community service, **apart from academic grades**
- **to meet the minimum entry requirement**
- apply by **April in the Sec 4N(A) or 4N(T) year**



*Applicable  
to both 4NA  
& 4NT  
students!*

## **ITE Nitec Programme**



☐ **3 GCE “N” Passes**

☐ **Grade 1 – 5 or Grade A – D in EL or Maths  
depending on course requirements**



***Institute of Technical Education***



**Applicable  
to both 4NA  
& 4NT  
students!**

## ITE Nitec Programme

### School of Applied & Health Sciences

- *Nitec in Applied Food Science*
- *Nitec in Chemical Process Technology*
- *Nitec in Community Care & Social Services*
- *Nitec in Nursing*
- *Nitec in Opticianry*

### School of Business & Services

- *Nitec in Beauty & Wellness*
- *Nitec in Business Administration*
- *Nitec in Business Services*
- *Nitec in Fitness Training*
- *Nitec in Floristry*
- *Nitec in Hair Fashion & Design*
- *Nitec in Logistics Services*
- *Nitec in Retail Services*
- *Nitec in Retail Services (3-year)*
- *Nitec in Travel & Tourism Services*

### School of Design & Media

- *Nitec in Architectural Technology*
- *Nitec in Digital Animation*
- *Nitec in Fashion Apparel Production & Design*
- *Nitec in Interior & Exhibition Design*
- *Nitec in Product Design*
- *Nitec in Video Production*
- *Nitec in Visual Communication*

### School of Electronics & Info-comm Technology

- *Nitec in Electronics & Internet of Things*
- *Nitec in Electronics, Computer Networking & Communications*
- *Nitec in Infocomm Technology*
- *Nitec in Microelectronics*
- *Nitec in Security Technology*
- *Nitec in Web Applications*

### School of Engineering

- *Nitec in Aerospace Avionics*
- *Nitec in Aerospace Machining Technology*
- *Nitec in Aerospace Technology*
- *Nitec in Automotive Technology*
- *Nitec in Built Environment (Mechanical & Electrical Services)*
- *Nitec in Built Environment (Mechanical & Electrical Services) (3-year)*
- *Nitec in Built Environment (Vertical Transportation)*
- *Nitec in Digital & Precision Engineering*
- *Nitec in Electrical Technology (Lighting & Sound)*
- *Nitec in Electrical Technology (Power & Control)*
- *Nitec in Mechanical Technology*
- *Nitec in Mechanical Technology (3-year)*
- *Nitec in Mechatronics & Robotics*
- *Nitec in Rapid Transit Technology*
- *Nitec in Urban Greenery & Landscape*

### School of Hospitality

- *Nitec in Asian Culinary Arts*
- *Nitec in Hospitality Operations*
- *Nitec in Pastry & Baking*
- *Nitec in Western Culinary Arts*



## ITE Nitec Programme

*Applicable  
to both 4NA  
& 4NT  
students!*

School	Course	GCE N(A)/N(T)-level					GCE O-level	
		EL	MA	MA/SC	Other 1	Other 2	Other 1	Other 2
Applied & Health Sciences	Applied Food Science							
	Chemical Process Technology							
	Community Care & Social Services			5, D	5, D	5, D	E8	E8
	Opticianry							
	Nursing	5, D	5, D		5, D			
Business & Services	Beauty & Wellness	Completed GCE 'N' or GCE 'O' Level						
	Business Administration							
	Business Services							
	Fitness Training	5, D			5, D	5, D	E8	E8
	Floristry							
	Travel & Tourism Service							
	Hair Fashion & Design	Completed GCE 'N' or GCE 'O' Level; Retail Services (3-year) is for <b>GCE N(T)</b> students with 0 or 1 'N' Level pass						
	Logistics Services							
	Retail Services							
Design & Media	Architectural Technology							
	Interior & Exhibition Design		5, D		5, D	5, D		
	Visual Communication						E8	E8
	Fashion Apparel Production & Design			5, D	5, D	5, D		
	Video Production	5, D			5, D	5, D		
	Digital Animation	Completed GCE 'N' or GCE 'O' Level						
	Product Design							

N(A)-Level:  
Numerical Grades

N(T)-Level:  
Alphabetical  
Grades



## ITE Nitec Programme

**Applicable  
to both 4NA  
& 4NT  
students!**

School	Course	EL	MA	MA/SC	Other 1	Other 2	Other 1	Other 2
Electronics & Info-comm Technology	Electronics & Internet of Things		5, D		5,D	5,D	E8	E8
	Electronics, Computer Networking & Communications			5, D	5, D	5, D		
	Infocomm Technology							
	Microelectronics							
	Web Applications							
	Security Technology	Completed GCE 'N' or GCE 'O' Level						
Engineering	Aerospace Avionics		5, D		5, D	5, D	E8	E8
	Aerospace Machining Technology							
	Electrical Technology (Lighting & Sound)							
	Electrical Technology (Power & Control)							
	Aerospace Technology			5, D	5, D	5, D		
	Digital & Precision Engineering							
	Mechatronics & Robotics							
	Rapid Transit Technology							
	Automotive Technology	Completed GCE 'N' or GCE 'O' Level						
	Built Environment (Mechanical & Electrical Services)							
	Built Environment (Vertical Transportation)							
	Mechanical Technology							
	Urban Greenery & Landscape							
Hospitality	Hospitality Operations	5, D			5, D	5, D	E8	E8
	Pastry & Baking							
	Western Culinary Arts							
	Asian Culinary Arts	Completed GCE 'N' or GCE 'O' Level						

**N(A)-Level:  
Numerical Grades**

**N(T)-Level:  
Alphabetical  
Grades**



MS NEO HUI JUN  
SH / PHY

# Subject Combinations for Secondary 3 2022





# **3 Normal Academic Subject Combinations in 2022**







## Sec 3 NA (Subjects) in 2022

L - LANGUAGE	CS - SCIENCE	MA - MATHEMATICS	H - HUMANITIES	C - COURSEWORK
<b>1. *English</b> <b>2. *Mother Tongue</b>	1. Sci (Biology, Chemistry) 2. Sci (Physics, Chemistry)	<b>1. *Mathematics (E Maths)</b> 2. Additional Maths (A Maths) 3. Principle of Accounts (POA) 4. Computing	<b>1. *Combined Humanities</b> <b>(Social Studies &amp; Geography/History)</b>	1. Art 2. Design & Technology (DT) 3. Food & Nutrition (FN)

**\*Compulsory Subject**

*Note: Final subjects offered in 2022 will be subjected to changes due to demand and availability of resources.*





# Sec 3NA Subject Combinations in 2022

## Points of Discussion:

### 1. Total Number of Subjects

- 6 Subjects
- 7 Subjects

### 2. Subject Combinations (categorized based on subject type)





# Sec 3 NA Subject Combinations in 2022 (6 Subjects)

SUBJECT	OPTION 1
1	English Language
2	Mother Tongue
3	E Maths
4	(SS, Geography) or (SS, History)
5	Science (Phy, Chem) or Science (Bio, Chem)
6	Coursework (Art or DT or FN) or POA or #A Maths



**Choices for Subject 4 to 6**

**#A Maths (N)** is only offered to students taking out-of-stream Mathematics (O)

*Note: Final subjects offered in 2022 will be subjected to change due to demand and availability of resources.*





# Sec 3 NA Subject Combinations in 2022 (7 Subjects)

SUBJECT	OPTION 2
1	English Language
2	Mother Tongue
3	E Maths
4	(SS, Geography) or (SS, History)
5	Science (Phy, Chem) or Science (Bio, Chem)
6	Coursework (Art or DT or FN) or POA or #A Maths
*7	Computing

*\*To take a 7<sup>th</sup> subject – a set of additional criteria applies.*

Subject	Criteria
Computing	<ul style="list-style-type: none"><li>At least 65% in Sec 2 overall</li><li>At least 65% in Sec 2 Mathematics</li></ul>

**#A Maths (N)** is only offered to students taking out-of-stream Mathematics (O)

*Note: Final subjects offered in 2022 will be subjected to change due to demand and availability of resources.*





# Sec 3NA Subject Combinations in 2022

Subject Combination	Subject					No. of Subjects
1	2L	1SC	1H	-	3MA	7
2	2L	1SC	1H	1C	2MA	7
3	2L	1SC	1H	-	2MA	6
4	2L	1SC	1H	1C	1MA	6
	<b><u>L - Language</u></b> * English * Mother Tongue	<b><u>SC – Combined Science</u></b> • Sci (Phy, Chem) • Sci (Bio, Chem)	<b><u>H - Humanities</u></b> * Humanities (Social Studies & Geography /History)	<b><u>#C - Coursework</u></b> • Art • Design & Technology • Food & Nutrition	<b><u>MA - Maths</u></b> * E Maths • #A Maths/POA • **Computing	
	* Compulsory subject # Either A Maths or POA or Coursework # <b>A Maths (N)</b> is only offered to students taking out-of-stream Mathematics (O) **Computing is the only 7 <sup>th</sup> Subject					

## Example

Student A is offering **Subject Combination 2**:

- 1) English Language
- 2) Malay Language
- 3) Science (Biology, Chemistry)
- 4) Humanities (Social Studies, Geography)
- 5) Food & Nutrition
- 6) E Maths
- 7) Computing

*Note: Final subjects offered in 2022 will be subjected to change due to demand and availability of resources.*





# Out-of-stream subjects (O level)

Lower Secondary  
Subject-Based Banding (SBB)



Upper Secondary  
Out-of-stream (OOS) subjects

Out-of-stream (**O level**) subjects offered:

1. English Language
2. Mathematics
3. Science (Physics, Chemistry) / Science (Biology, Chemistry)
4. Mother Tongue

- **Existing students** who are being offered SBB at Sec 2 can continue to be offered out-of-stream subject when he obtains a **pass** in the subject (at a higher level) in Sec 2.
- **New students** who would like to be offered out-of-stream subjects will need to attain at least **65%** for the subjects at Sec 2.

*\* Students cannot offer more than 3 out-of-stream subjects.*

## Example

Student B is offering the following subjects:

- 1) English Language (OOS)
- 2) Malay Language (OOS)
- 3) Science (Physics, Chemistry)
- 4) Humanities  
(Social Studies, History)
- 5) Food & Nutrition
- 6) E Maths (OOS)





# Promotion Criteria

## **Promotion from 2NA to 3NA**

Grade 5 or better in English Language and 2 other subjects

OR

Pass in 4 subjects

## **Lateral Transfer from 2NA to 3EX**

Attain a minimum of 70% in overall percentage, students to be deemed able to cope with the rigour of the more demanding course especially in the area of literacy and numeracy.





# Schedule

- **Aug-Sept 2021 – Subject Combination Survey**
- **Oct 2021 (After end-of-year examination) – Streaming Exercise**
- **End Oct 2021 – Release of Streaming Exercise Results**







# **BUILD MINDSET & STRONG FOUNDATION**



# Help your child develop **Growth MINDSET**



## Accomplish BIG Things With a **GROWTH MINDSET!**

Success Begins With Believing You Can



### Instead of Thinking...

- I can't do it.
- I'm not good at this.
- It's good enough.
- It's too hard.
- I'm afraid of making a mistake.
- They are better at it than I am.
- I don't know how.
- I can't make this any better.
- I don't like challenges.
- I give up.



### Think This...

- I'm still learning. I'll keep trying!
- What can I learn to get better at this?
- Is this the best I can do?
- With more practice it will get easier!
- Mistakes are how I learn & get better!
- What can I learn from them?
- I can learn how!
- I can always find ways to improve!
- Challenges make me better!
- I'll try a different way!

## Resilience

Giving Our Children S.P.A.C.E. to Grow



**S**

### Support

Be an adult who is supportive and willing to listen

**P**

### Problem-solve

Process setbacks and work with child to develop alternate plans to overcome setbacks

**A**

### Affirm

Affirm strengths and encourage efforts (not just abilities or achievements) to enhance resilience and learning

**C**

### Cheer

Cheer the child on for renewed effort and share inspirational stories of resilience

**E**

### Empower

Provide child with skills and opportunities to try, take risks and experience challenges

We can intentionally role-model resilience & use S.P.A.C.E. language.





*Thank  
you*

