# Subject Combinations for Secondary 3 2022

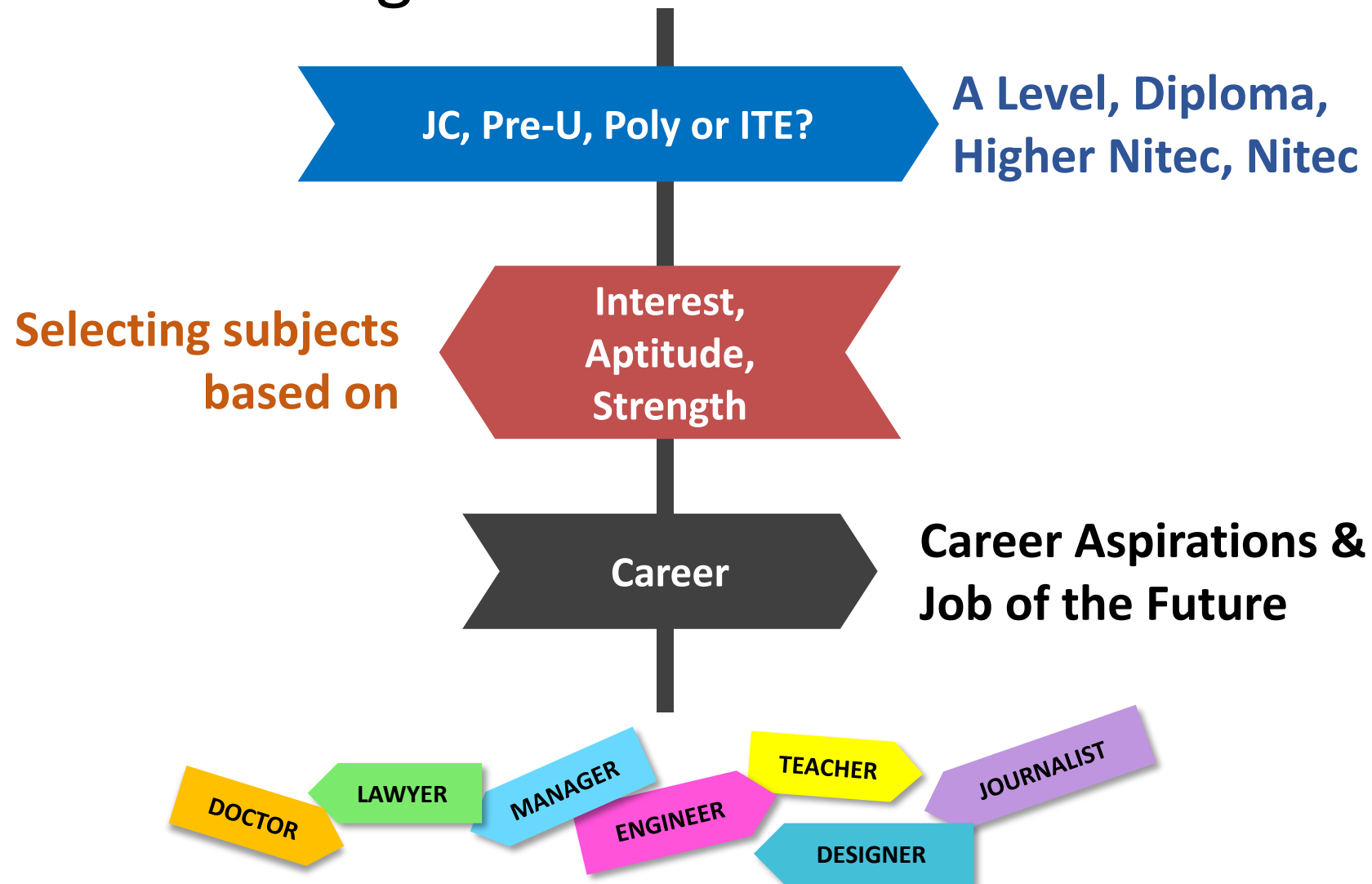Mdm Ang Sor Cheng
HOD, Mother Tongue Languages

# Sec 2 Streaming Exercise

Considerations

**JC, Pre-U, Poly or ITE?** → **A Level, Diploma, Higher Nitec, Nitec**

**Selecting subjects based on** → **Interest, Aptitude, Strength**

**Career** → **Career Aspirations & Job of the Future**

DOCTOR  LAWYER  MANAGER  ENGINEER  TEACHER  DESIGNER  JOURNALIST
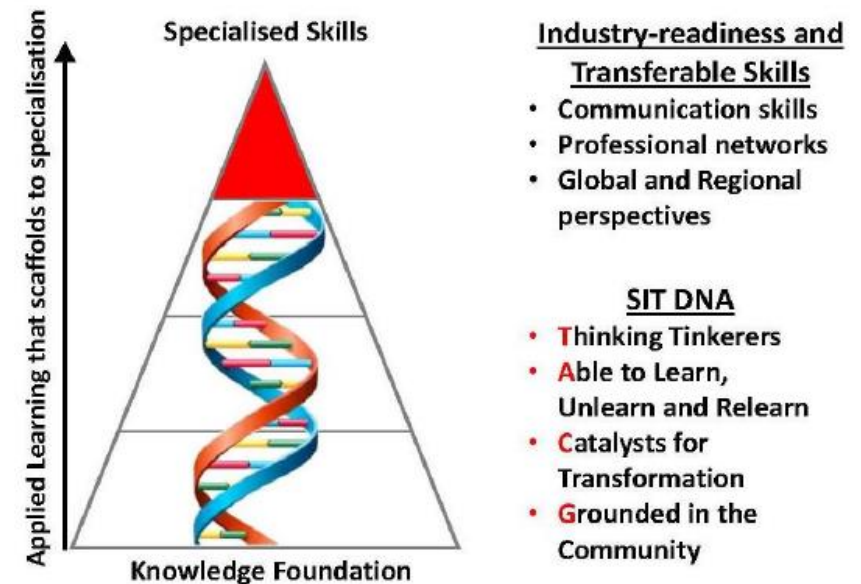
# Future Skills in Post-Secondary Study and Work



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

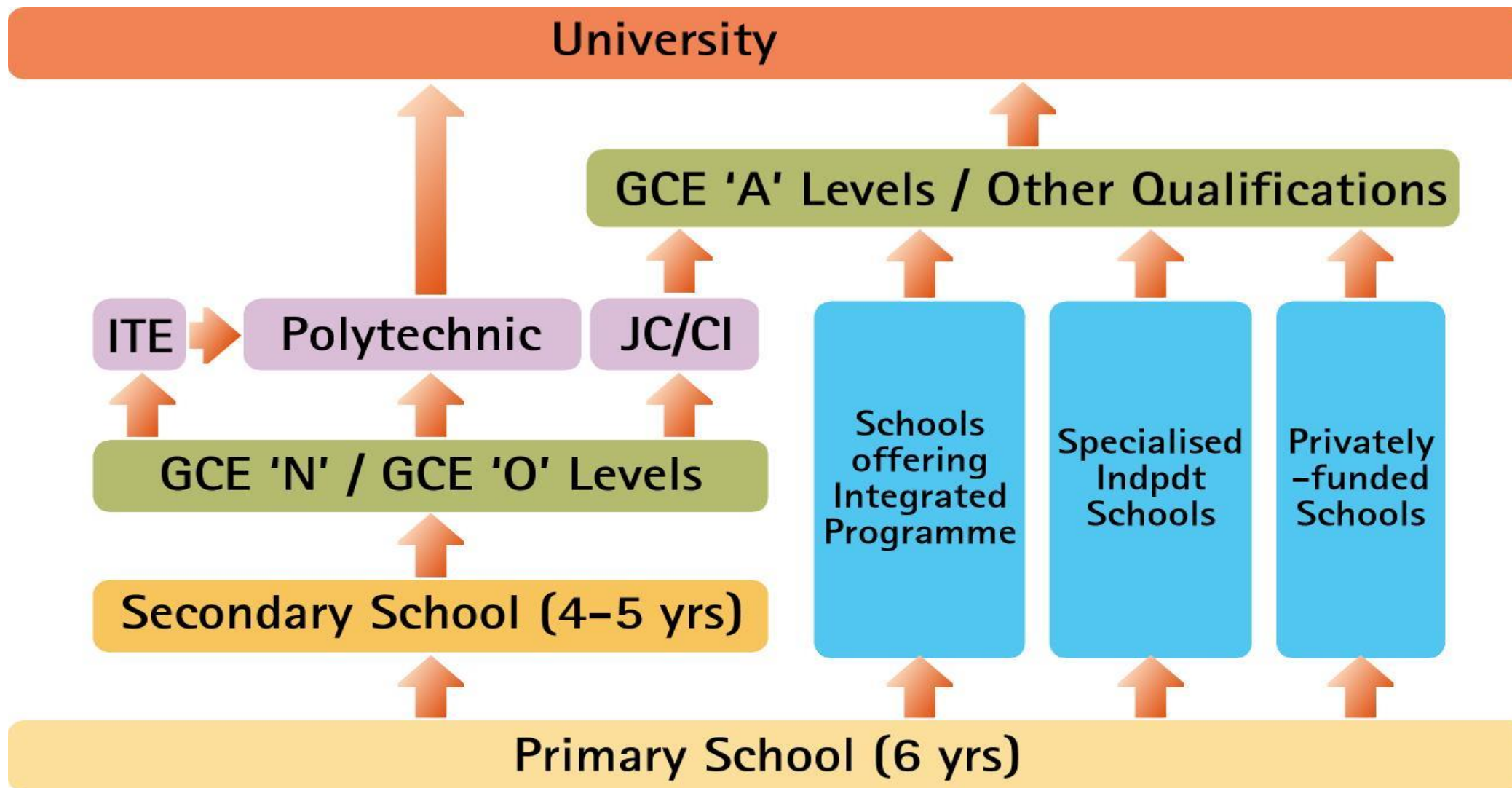by Fintechnews Singapore / August 18, 2020



**THE STRAITS TIMES**

BUSINESS > Companies & Markets   Economy   Bankin

Here are the 5 fastest-growing jobs in Singapore, says a LinkedIn survey



**Specialised Skills**

Applied Learning that scaffolds to specialisation

**Knowledge Foundation**

**Industry-readiness and Transferable Skills**
- Communication skills
- Professional networks
- Global and Regional perspectives

**SIT DNA**
- **T**hinking Tinkerers
- **A**ble to Learn, Unlearn and Relearn
- **C**atalysts for Transformation
- **G**rounded in the Community

Singapore Institute of Technology DNA

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# 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.
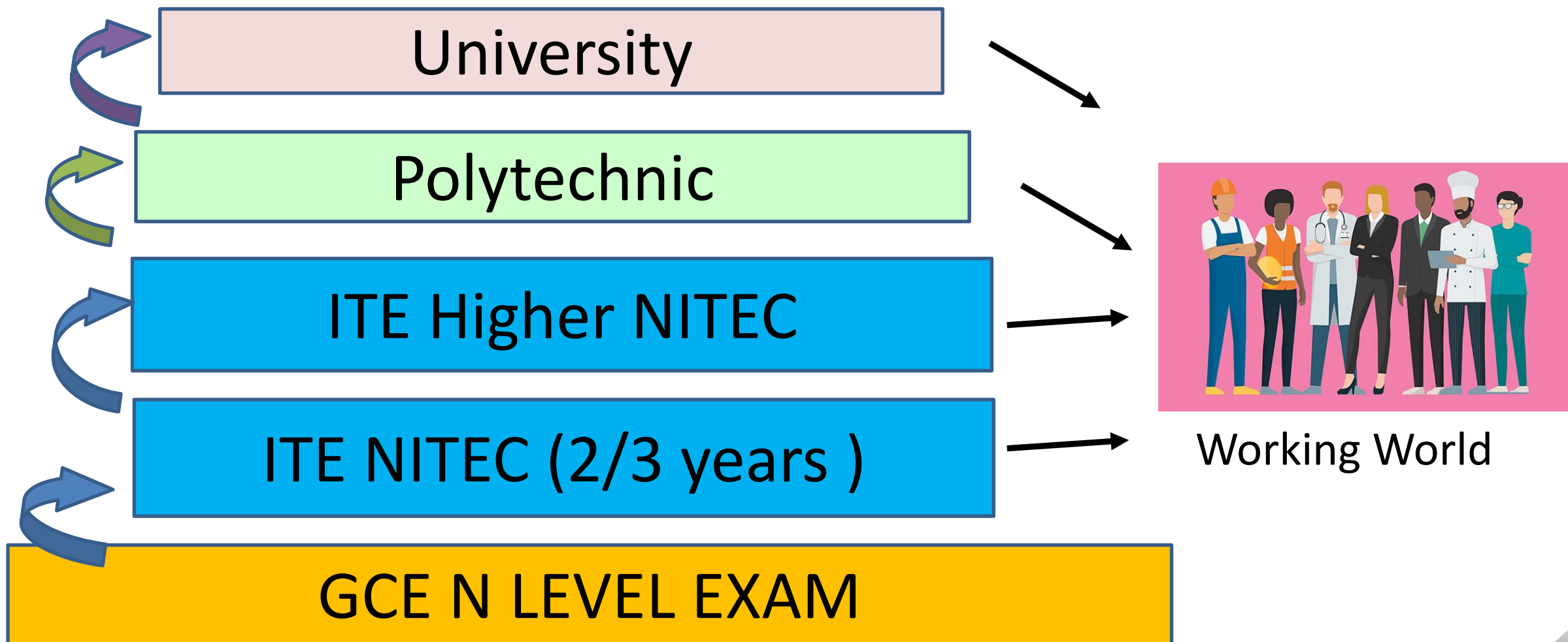
# FOR STUDENTS ON N-LEVEL COURSE
## [NORMAL (ACADEMIC) & NORMAL (TECHNICAL)]

# PATHWAY AVAILABLE FOR N(T) STUDENTS

University

Polytechnic

ITE Higher NITEC

ITE NITEC (2/3 years )

GCE N LEVEL EXAM

Working World

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

# EAE Early Admissions Exercise

- 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 <u>sports, arts, leadership, entrepreneurship and community service</u>, **apart from academic grades**
- **to meet the minimum entry requirement**
- apply by *April in the Sec 4N(A) or 4N(T) year*

https://www.ite.edu.sg/admissions/full-time-courses/nitec/eae

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# ITE Nitec Programme

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

❑ **3 GCE "N" Passes**

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

**ITE**

**Institute of Technical Education**

# ITE Nitec Programme

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

## 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

https://www.ite.edu.sg/courses/full-time-courses/nitec

# 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 | | | 5, D | 5, D | 5, D | E8 | E8 |
| | Chemical Process Technology | | | | | | | |
| | Community Care & Social Services | | | | | | | |
| | Opticianry | | | | | | | |
| | Nursing | 5, D | 5, D | | 5, D | | | |
| Business & Services | Beauty & Wellness | Completed GCE 'N' or GCE 'O' Level | | | | | | |
| | Business Administration | | | | | | E8 | E8 |
| | Business Services | | | | | | | |
| | Fitness Training | 5, D | | | 5, D | 5, D | | |
| | Floristry | | | | | | | |
| | Travel & Tourism Service | | | | | | | |
| | Hair Fashion & Design | Completed GCE 'N' or GCE 'O' Level; Retail Services (3-year) is for **GCE N(T)** students with 0 or 1 'N' Level pass | | | | | | |
| | Logistics Services | | | | | | | |
| | Retail Services | | | | | | | |
| Design & Media | Architectural Technology | | 5, D | | 5, D | 5, D | E8 | E8 |
| | Interior & Exhibition Design | | | | | | | |
| | Visual Communication | | | | | | | |
| | 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

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# 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 |
| Electronics & Info-comm Technology | Electronics & Internet of Things | | 5, D | | 5,D | 5,D | | |
| | Electronics, Computer Networking & Communications | | | 5, D | 5, D | 5, D | E8 | E8 |
| | 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

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# Range of Polytechnic courses


School of BUSINESS & ACCOUNTANCY
- ACCOUNTANCY
- BANKING & FINANCE
- BUSINESS STUDIES
- COMMON BUSINESS PROGRAMME
- INTERNATIONAL TRADE & BUSINESS
- TOURISM & RESORT MANAGEMENT


School of DESIGN & ENVIRONMENT
- DESIGN NEW
- HOTEL & LEISURE FACILITIES MANAGEMENT
- REAL ESTATE BUSINESS


School of ENGINEERING
- AEROSPACE ENGINEERING
- AUTOMATION & MECHATRONIC SYSTEMS
- BIOMEDICAL ENGINEERING
- COMMON ENGINEERING PROGRAMME
- ELECTRICAL ENGINEERING
- ELECTRONIC & COMPUTER ENGINEERING
- ENGINEERING SCIENCE
- MARINE & OFFSHORE TECHNOLOGY
- MECHANICAL ENGINEERING


School of FILM & MEDIA STUDIES
- FILM, SOUND & VIDEO
- MASS COMMUNICATION
- MEDIA POST-PRODUCTION NEW


School of HEALTH SCIENCES
- NURSING
- OPTOMETRY


School of HUMANITIES & SOCIAL SCIENCES
- ARTS BUSINESS MANAGEMENT
- CHINESE MEDIA & COMMUNICATION
- CHINESE STUDIES
- COMMUNITY DEVELOPMENT NEW
- EARLY CHILDHOOD DEVELOPMENT & EDUCATION
- TAMIL STUDIES WITH EARLY EDUCATION


School of INFOCOMM TECHNOLOGY
- COMMON ICT PROGRAMME
- CYBERSECURITY & DIGITAL FORENSICS
- FINANCIAL INFORMATICS
- IMMERSIVE MEDIA
- INFORMATION TECHNOLOGY


School of LIFE SCIENCES & CHEMICAL TECHNOLOGY
- BIOMEDICAL SCIENCE
- CHEMICAL & BIOMOLECULAR ENGINEERING
- ENVIRONMENTAL & WATER TECHNOLOGY
- LANDSCAPE DESIGN & HORTICULTURE
- PHARMACEUTICAL SCIENCE

# 3 NORMAL TECHNICAL Subject Combination

# Sec 3NT

| Subjects | Course |
|---|---|
| 1 | English Language |
| 2 | Mother Tongue Language |
| 3 | Mathematics |
| 4 | Science |
| 5 | Computer Applications (CPA) |
| 6 (Coursework) | **Design and Technology (D&T) or Food Studies (FS) or *Music** |
| 7 | Social Studies *(non-examinable)* |

*\* Final subjects offered in 2022 will be subjected to demand and availability of resources.*

# Sec 3NT Courses     Out-Of-Stream Subjects

**Lower Secondary Subject-Based Banding (SBB)**

→

**Upper Secondary Out-of-stream (OOS) subjects**

Out-of-Stream **(Normal Academic level)** subjects offered:

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

• **Existing students** who are being offered SBB at Sec 2 can continue to be offered <u>out of stream subject</u> when they **pass** the subject (at a higher level) in Sec 2.

• **New students** who would like to be offered <u>out-of-stream subjects</u> will need to attain **65%** for the subjects at Sec 2.

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

**Example**

Student A is offering the following subjects:

1)  English Language (OOS)

2)  Basic Chinese Language

3)  Science (Physics, Chemistry) (OOS)

4)  Mathematics

5)  Computer Applications

6)  Music

7)  Social Studies (non-Examinable)

# Promotion Criteria

**Promotion from 2NT to 3NT**

Grade D or better in 2 subjects, one of which should be English Language or Mathematics.

**Lateral Transfer from 2NT to 2NA**

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**

- **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… | | Think This… |
|---|---|---|
| I can't do it. | ▶ | I'm still learning. I'll keep trying! |
| I'm not good at this. | ▶ | What can I learn to get better at this? |
| It's good enough. | ▶ | Is this the best I can do? |
| It's too hard. | ▶ | With more practice it will get easier! |
| I'm afraid of making a mistake. | ▶ | Mistakes are how I learn & get better! |
| They are better at it than I am. | ▶ | What can I learn from them? |
| I don't know how. | ▶ | I can learn how! |
| I can't make this any better. | ▶ | I can always find ways to improve! |
| I don't like challenges. | ▶ | Challenges make me better! |
| I give up. | ▶ | I'll try a different way! |

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

Ministry of Education
SINGAPORE

**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.**