



Spectra Spectacular

Together We Can

School Vision

Every Spectran equipped to lead a fulfilling life.

School Mission

Provide an engaging learning experience that prepares every Spectran for work and life.

School Values

Respect our Foundation
Responsibility our Spirit
Resilience our Strength

Curriculum

Academic Subjects

- English Language
- Mother Tongue Languages
- Mathematics
- Science (lower secondary)
- Information and Communication Technology

Eligible students may offer selected subjects at G2 level.

Student Development

- Physical Education and Aesthetics
- Character and Citizenship Education

Vocational (ITE Skills Subjects)

- Culinary and Restaurant Operations
- Retail and e-Commerce
- Internet of Things Applications
- Mechanical Design and Automation
- Mobile Web Applications

Vision-Values
Mission



Spectra Secondary School was established in 2013. We prepare our students for further studies in the ITE through our customised academic and vocational curriculum.

We focus on three broad areas:

1. Nurturing students' sense of self-worth, self-confidence and motivation so that they lead purposeful and happy lives.
2. Enhancing students' literacy, numeracy and digital skills so that they experience success in school, work and life.
3. Stimulating students' interests and career aspirations through a blended curriculum (academic and vocational) that deepens their knowledge, skills and attitude.



Culinary and Restaurant Operations

Students learn how to prepare restaurant-standard meals and cafe-standard coffee beverages, provide food and beverage service, and organise themed events.



Retail and e-Commerce

Students learn how to perform retail selling including online and omni-channel retailing, produce promotional collaterals and brochures, handle logistics in inventory control, and display merchandise.



Internet of Things Applications

Students learn how to produce basic IoT prototypes and deploy simple software applications in an authentic industrial and commercial system.

Mechanical Design and Automation

Students learn how to design simple 3D products, create 3D models using CAD, produce prototypes using a 3D printer, perform mechanical fitting and assembly, and assemble parts and components to complete an automated unit.

Mobile Web Applications

Students learn how to develop rich user interface and responsive mobile web applications for common mobile devices.



ITE Skills Subjects Plus (ISS+)

To provide opportunities for eligible upper secondary students to deepen their understanding of Vocational Education, ISS+ was introduced in 2023. This programme allows students to go through an advanced skills-based curriculum, enhanced Industry Experiential Programme, a coaching and mentoring programme and an overseas learning experience in Asia.



Sustainable Agriculture

Sustainable Agriculture forms an integral part of our enriched curriculum, offering students an immersive learning experience in our Spectra Edible Learning Garden and Green Room. Through hands-on activities, students acquire knowledge and practical skills in sustainable agricultural practices around the school compound. As part of their curriculum, students also actively participate in the conversion of organic food waste into nutrient-rich compost using earthworms. This holistic approach not only fosters a deep understanding of environmental conservation and food sustainability, but also instills essential values such as responsibility and resilience within our students.

Learning Through Immersive Play and Technology

Team-based learning through immersive play is part of our Mathematics curriculum where students work together to uncover clues, solve problems and accomplish tasks in our very own customised Spectra Escape Rooms. Students gain motivation to further their learning and strengthen their skills in collaboration, communication and critical thinking through these experiences.

Task-based learning through Immersive technology is part of our English Language curriculum where students use technological tools such as Google Earth to explore the world, share dream travel destinations and plan adventurous travel itineraries. The interactivity and multimodal features of digital technologies help to differentiate the nature of content, learning processes and products of learning to meet the needs of our students.



Industry Experiential Programme

With strong support from our industry partners, the Industry Experiential Programme (IEP) is part of our Vocational Education curriculum where students have opportunities to learn in authentic work environments and apply what they have learnt in Spectra. These experiences enable our students to discover their aspirations and pursue their dreams with commitment after they graduate from Spectra.



Learning and Counselling Support

Spectra seeks to build strong foundations in both literacy and numeracy in our students. Towards this end, the school has set up a Learning Support Unit which coordinates strategies, develops resources, and works closely with our students and their parents to enhance numeracy, literacy and behavioural support for our students.

We also have a Counselling Support Unit which provides social and emotional support for all students. To better engage our students outside of the curriculum, the school organises a myriad of afterschool programmes at the Student Hub to cater to their interests. Spectrans can also learn new skills and pursue their passion in cycling at our Spectra Bike Station.



Co-curricular Activities

At Spectra, we empower students to aspire towards their dreams. Through a diverse range of CCAs, our students discover new interests, develop their talents and build on their strengths. Our dedicated teachers and coaches encourage students to experiment, learn new skills and pursue their passion in the following CCAs:

- | | |
|---|--|
| Sports | – Basketball, Floorball, Football and Young Trekkers |
| Uniformed Groups | – Girl Guides and National Civil Defence Cadet Corps |
| Visual and Performing Arts Clubs and Societies | – Dance, Music and Young Artists
– Media & Photography Club, Urban Farmers, Young Chefs, Young Creators and Young Engineers |



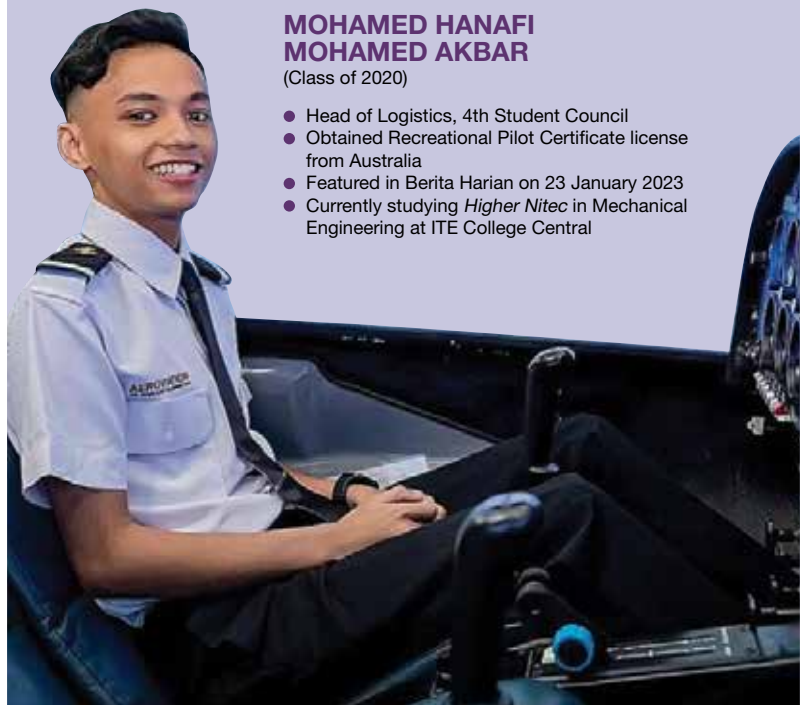
Alumni Testimonies



“It was an amazing four years in Spectra and I will never forget what we have learnt. Being part of the Spectra Student Council changed my life. I learnt to step out of my comfort zone to grow and step up to lead and serve. I also discovered my passion for writing and drawing in Spectra. I hope to use my skills as a writer and artist, to create webtoons and drawings to inspire others.”

KAITLYN ONG
(Class of 2020)

- President, 4th Student Council
- Recipient of the Spectran of the Year (2020) and Tay Eng Soon Award (2021)
- Recipient of Certificate of Merit and Gold Course Medal for *Nitec* in Visual Communication
- Valedictorian, School of Design & Media at ITE College Central
- Featured in the Straits Times for co-illustrating a community Hari Raya Cookbook on 17 June 2021
- Currently studying Media, Arts & Design at Singapore Polytechnic



“Spectra has taught me that the sky is the limit. My teachers were supportive of my interest in being a pilot. I could earn my pilot license because the leadership training I had in Spectra taught me discipline and resilience, which are important values that I could apply in my course. Being in Spectra has made me believe in myself and of what I can achieve.”

**MOHAMED HANAFI
MOHAMED AKBAR**
(Class of 2020)

- Head of Logistics, 4th Student Council
- Obtained Recreational Pilot Certificate license from Australia
- Featured in Berita Harian on 23 January 2023
- Currently studying *Higher Nitec* in Mechanical Engineering at ITE College Central

“Spectra has provided me with many opportunities. I was given the chance to hone my leadership skills through planning activities as part of the Spectra Student Council. I also represented Spectra at a leadership camp where I met students from different schools, deepened my understanding about the Singapore culture and was part of the open conference with a Member of Parliament.”

DERINDA LIM WEI YING (Class of 2022)

- President, 6th Student Council
- Recipient of the Spectran of the Year (2022) and Tay Eng Soon Award (2023)
- Awarded the Lee Kuan Yew Award for All-Round Excellence (Secondary) (2023)
- Outstanding Graduate, School of Business & Services at ITE College Central
- Currently studying Hotel and Leisure Management at Republic Polytechnic



“Spectra has helped me grow tremendously through the various opportunities I was given. An introvert naturally, I intentionally chose to take on service-oriented ITE Skills Subjects of Retail & e-Commerce (REC) and Culinary & Restaurant Operations. These subjects pushed me to speak up more, interact with peers and discover new interests. Being part of the Student Council allowed me to learn important lessons about leadership and responsibility. I thank Spectra for paving the way to achieve my childhood dream of joining the aerospace sector.”

**TARSHVINWARAN S/O
BALASUBRAMANIAM**
(Class of 2023)

- Vice-President of 7th Student Council
- Recipient of the Spectran of the Year (2023) and Tay Eng Soon Award (2024)
- Recipient of the Lee Kuan Yew Award for All-Round Excellence (Secondary) (2024)
- Featured in Tamil Murasu on 24 Dec 2023
- Currently pursuing *Nitec* in Aerospace Machining Technology at ITE College Central





1 Woodlands Drive 64
Singapore 737758

Tel: 64660775
68058184

Email: spectra@schools.gov.sg

SpectraSecondarySchool



spectrastories



Know more about
Spectra Secondary School
from our Website

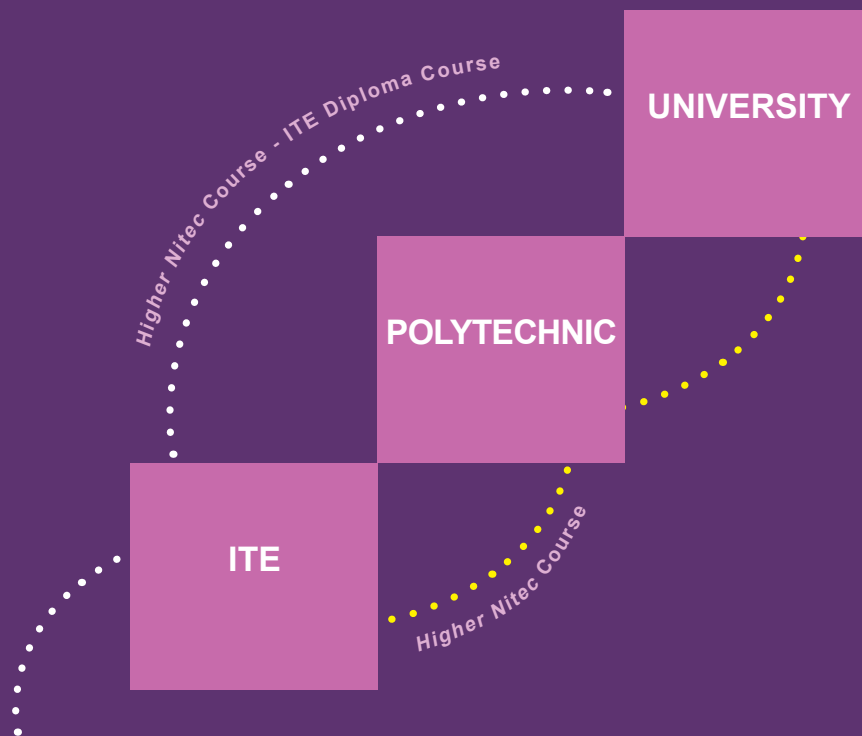


JOIN US AT OUR OPEN HOUSE!

BUS: 962 and 901M
MRT: ADMIRALTY STATION



EDUCATIONAL PATHWAY



SPECTRA SECONDARY SCHOOL

- Spectra offers a blended academic and vocational curriculum that prepares our students for a seamless transition to the Institute of Technical Education (ITE).
- Spectra students obtain 2 certifications upon graduation at the end of Secondary 4 – Singapore-Cambridge Secondary Education Certificate (SEC) and ITE Skills Subject Certificate (ISSC).
- At ITE, Spectra graduates may further progress to *Higher Nitec* and Diploma Courses that will lead to the Polytechnics and Universities.