TECHNOLOGY EDUCATION

A New & Innovative approach to *Learning*

A New and Innovative Approach to Learning

21st Century Skills

Project Based Learning

School Based Assessments

New Activity Based Learning Pedagogy

Competency-Based Education

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Introducing Technology Education in Secondary Education

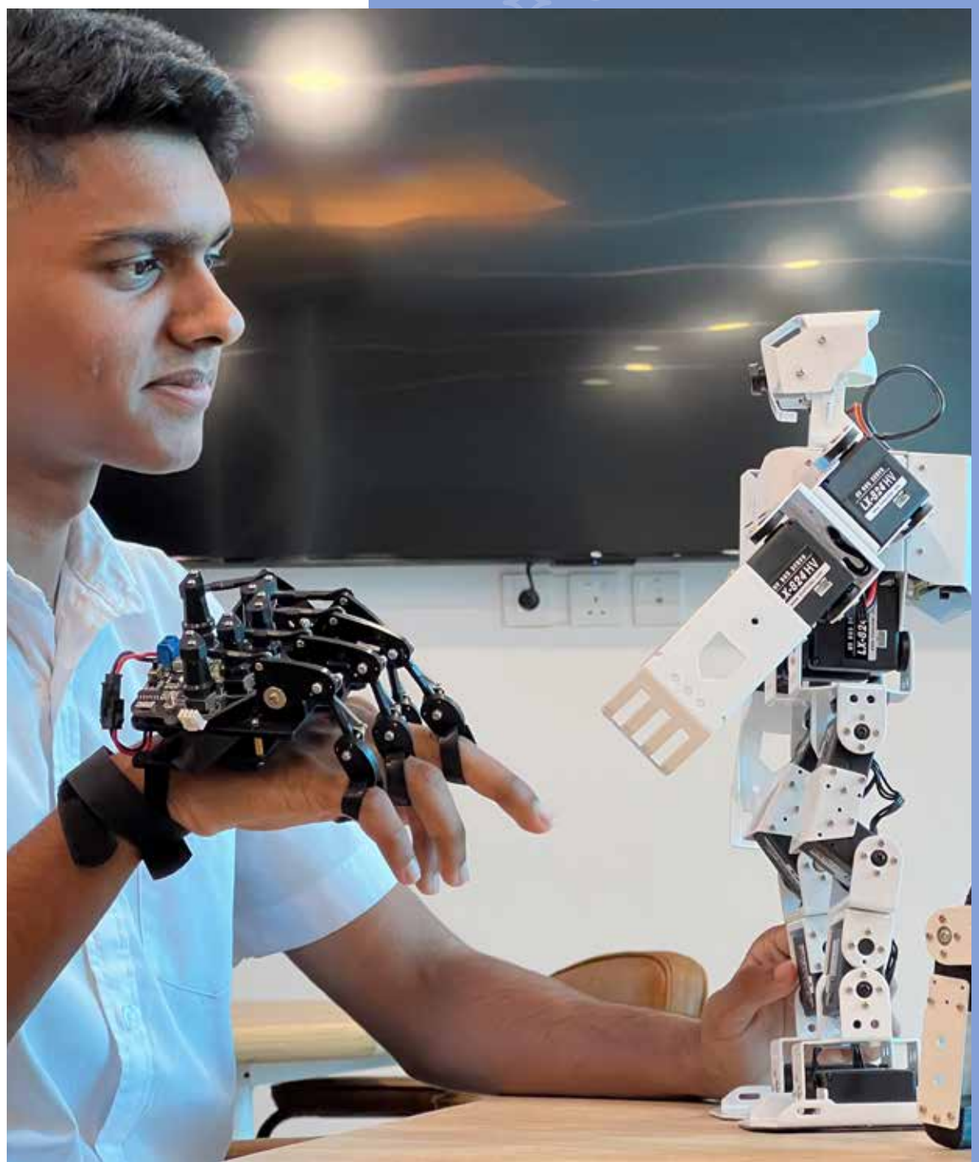
Preamble

The introduction of Technology Education in the curriculum is part of ongoing reforms aimed at diversifying educational offerings at the secondary level. This is vital given that learners are now expected to operate in a world dominated by rapidly evolving technological advances that posit new demands for skills for the future. Accordingly, learners have to be equipped with the proper knowledge, competencies, including soft skills and entrepreneurial faculties that would best sub-serve their capacity to respond to technological innovations.

The primary objective is to provide students at the end of basic education, i.e., at Grades 10 and 11 with an appealing and viable alternative to the existing programmes of study at these levels.

Technology Education is meant to be student-centric, providing a hands-on approach accompanied by an innovative pedagogy that fosters personalised learning experiences.

> **Technology** Education is meant to be student-centric



Objectives of Technology Education

The objectives of Technology Education are to:

a) Diversify educational offerings in Grades 10 and 11 with a credible, coherent and high-quality learning pathway;

b) Promote learner achievement towards skills for the future; and

c) Provide a solid foundation for higher-level skills development through a mix of academic and technology focus.

> **Because the world is changing,** skills should as well

The Learning Pathway

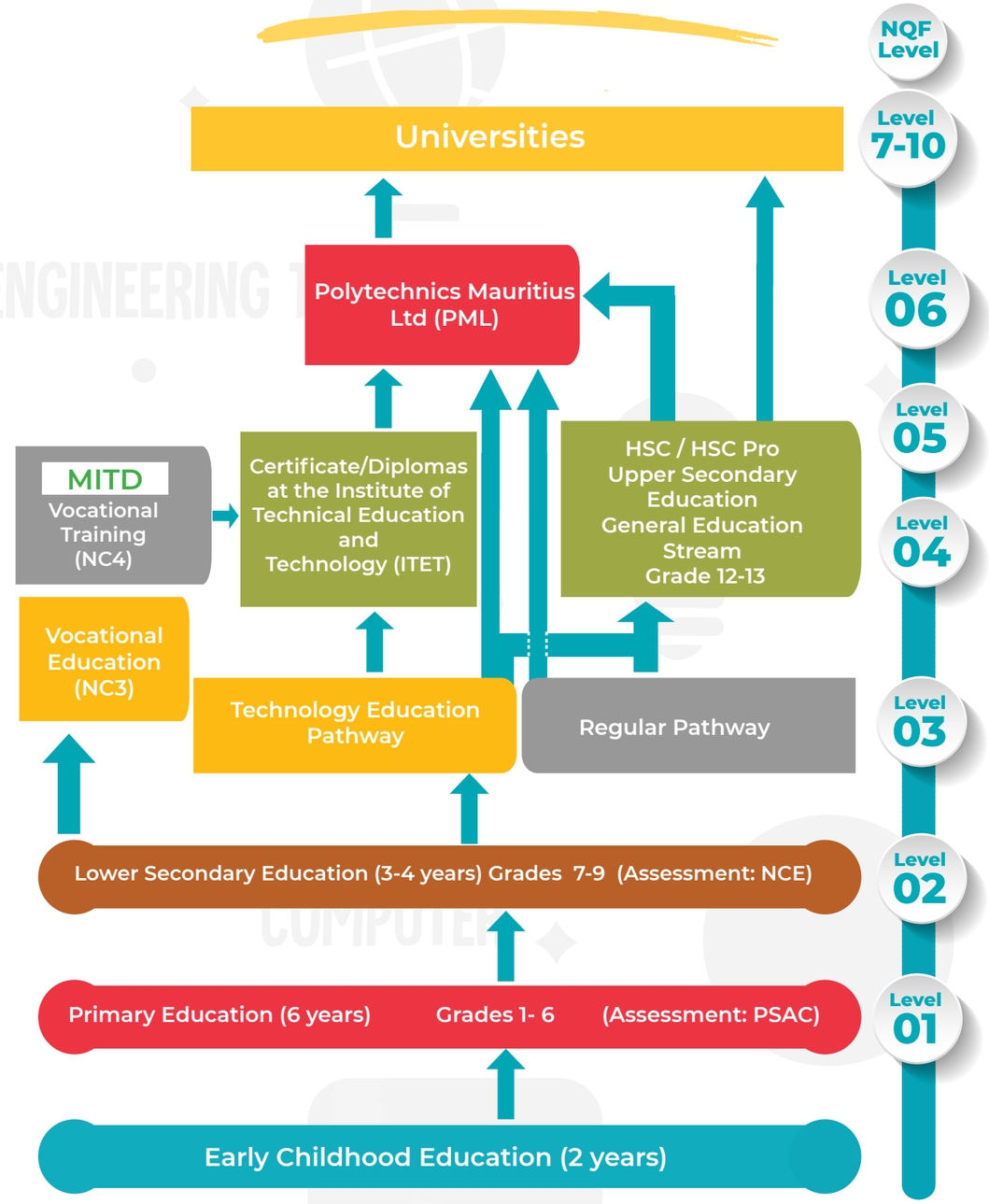
Students may join the Technology Education pathway after successful completion of the National Certificate of Education. They will have to follow a two-year study programme at Grades 10 and 11.

After Grade 11, students can opt for Certificates and Diplomas in Emerging Sectors of the economy at the ITET , then Polytechnics Mauritius or University. Students can also join Grade 12 and 13 in their respective schools..

This is illustrated in the schematic diagram.

“**Modernise, innovate and diversify the curriculum** - a Competency-Based Approach

MULTIPLE LEARNING PATHWAYS



“**Step into the world of technology, where every click is a chance to create, every challenge a lesson to learn, and every innovation a step towards shaping the future...”**

> **New, credible, coherent** and **high-quality** learning pathway

The Technology Education Curriculum

The Technology Education Curriculum will offer eight subjects comprising **five** core and **three** electives.

Core subjects

- Applied Mathematics
- English
- French
- Applied Sciences where students either opt for Physical Sciences or Life Sciences
- Essential Skills ICT/ Entrepreneurship/ Arts

The electives are clustered around three disciplines (students to opt for 1 cluster):

- Engineering Technology
- Computer Technology and Innovation
- Health and Hospitality

SUBJECTS ON OFFER

Common areas of study (compulsory)

- English
- French
- Applied Mathematics
- Applied Sciences
- Essential Skills ICT/Entrepreneurship/ Arts

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3 Subjects from one cluster

Cluster 1: Engineering Technology	OR	**Cluster 2:** Health & Hospitality	OR	**Cluster 3:** Computer Technology & Innovation
ET 1: Fundamentals of Engineering		HH 1: Health and Wellness		CT 1: Computer Systems and Maintenance
ET 2: Engineering Applications		HH 2: Hospitality & Culinary Techniques		CT 2: Communication Technologies
ET 3: Engineering and Sustainability		HH 3: Leisure and Recreation		CT 3: Fundamentals of Programming

THE 21ST CENTURY EDUCATION EXPERIENCE

Certification and Recognition

Successful completion of the two-year programme leads to a National School Certificate awarded by the University of Mauritius. All assessments will be conducted by the National Examinations Board.

The National School Certificate is pitched at Level 3 of the National Qualifications Framework as is the case for the Cambridge School Certificate.

Implementing Technology Education in Schools

The Technology Education programme will be initially run in the following 10 secondary schools as from January 2024.

SN	ZONE	CATEGORY	SCHOOL	ADDRESS	GENDER
1	Zone 1	State (Regional)	Goodlands SSS	Royal Road, Goodlands	B
2	Zone 1	State (Academy)	Royal College Port Louis	Cassis, Port Louis	BG
3	Zone 1	PSEA	Islamic Cultural College (VDP)	Bait-Ul-Noor Street , Vallée des Prêtres, Port Louis, Mauritius.	BG
4	Zone 2	State (Regional)	Camp de Masque State College	Royal Rd, Camp de Masque	B
5	Zone 2	MG SSS	MG SSS Moka	Reduit, Moka	BG
6	Zone 2	PSEA	New Eton College	Notre Dame de Lourdes St, Rose Hill	B
7	Zone 3	State (Regional)	Emmanuel Anquetil SSS	Sivananda Street, Mahebourg	B
8	Zone 3	State (Academy)	Sookdeo Bissoondoyal State College	Chapel Rd, Rose Belle	BG
9	Zone 3	PSEA	Loreto Mahebourg College	Pointe D'Esny Rd, Mahebourg	G
10	Zone 4	State (Regional)	Swami Sivananda SSS	Geoffroy Road, Bambous	G

Curriculum

A comprehensive, relevant and well-balanced National Curriculum Framework for Technology Education has been developed in collaboration with all stakeholders, including representatives from business and industry, so as to have a strong connect to those sectors.

The curricula, that promote a learner-centered and project-based approach, provide guidance on the teaching and learning syllabi, the pedagogical approaches as well as on assessment.

Capacity Building

Educators are called upon to cater for the diverse learning styles and preferences of students and become facilitators in an applied learning environment. They will accordingly be supported and trained in an ongoing manner to develop and update their competencies and pedagogical skills.

This will be done through a variety of training techniques, including mixing theory and practice in situ in simulation and laboratories.

An intensive capacity-building programme has been mounted to this effect and is slated to start in November 2023.

Frequently Asked Questions

In what way is the Technology Education (TE) innovative?

TE is part of the Reform Agenda of the Ministry of Education TE S&T whereby it is reckoned as a means for students to develop the 21st Century skills relevant to the demands of the modern world. As well, it promotes a hands-on approach to learning.

Will Technology Education be offered in all secondary schools?

TE is being launched initially in January 2024 in 10 schools comprising 6 State Secondary Schools, 1 MGSSS (Moka) and 3 Private Aided Schools. Technology Education will subsequently be rolled out to a number of secondary schools.

What is the difference between TE and Cambridge SC?

After 2 years of study at Grades 10 & 11, students enrolled for TE will be examined and awarded a National School Certificate by the UoM. This Certificate is deemed to have the same equivalence as the Cambridge School Certificate as both are pitched at Level 3 on the National Qualifications Framework.

Is there a Curriculum and Teaching & Learning (T&L) Syllabi for Technology Education?

The Curriculum Framework as well as the Teaching & Learning syllabi have been prepared in collaboration with UoM, MIE and the corporate partners. Both the curriculum and the teaching and learning syllabi of Technology Education offered in Mauritius have been internationally validated by foreign experts.

Will the Technology Education Certificate offered to students be recognised internationally?

The National School Certificate will gain International currency very much like other qualifications currently offered in Mauritius.

TECHNOLOGY EDUCATION
A MODERN APPROACH TO LEARNING

Technology Education will be launched in 10 secondary schools as from January 2024. Students will only join the Technology Education pathway after successfully completing their National Certificate of Education at the end of Grade 9.

Technology Education aligns itself with the global trend to equip students with new learning competencies that are in high demand in today's rapidly evolving technology-driven world.

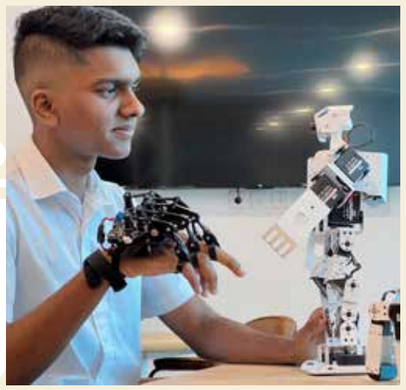
The curriculum for Technology Education is innovative and at the heart of it lies a strong emphasis on practical learning and skills development.

NURSING

IT

CULINARY

ENGINEERING



Innovative
Education

TECHNOLOGY

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