



**MODBURY
HIGH SCHOOL**

FINEM RESPICE



SPECIAL INTEREST

Innovative Technologies & Engineering Pathway Program

The Modbury High School **Innovative Technologies and Engineering Pathway (ITEP) Program** will foster the critical thinking and innovative technological skills required to flourish in modern society

ENTRY REQUIREMENTS

Annually, 20 positions are open for students, whether in-zone or out-of-zone, who successfully pass the selective entry process to join the ITEP programme at MHS.

The application process for the 2025 school year:

- open January 2024
- are for year 6 students (in 2024) entering year 7 the following year
- will close July 5th 2024
- include an online application addressing achievement, interest and experience in STEM learning.

PROGRAM DETAILS

The program will focus on applying the engineering design process to solve problems using innovative technologies including coding, 3D printing, and laser cutting. The curriculum will include a balance of theoretical knowledge and practical skills.

Students will have access to specialised STEM teachers from year 7-10.

GOALS and OUTCOMES

- Expose students to innovative learning opportunities and industry standard technologies
- Utilise relationships with Industry and Universities for student benefit and program enrichment
- Equip students with technical skills that can be applied in higher education and future careers in STEM
- Foster an environment of creativity, critical thinking and problem solving
- Support students with in school and past student mentors

STEM EXCURSIONS / COMPETITIONS

The ITEP program is committed to providing students with opportunities that extend beyond the classroom.

This may include:

- Big STEM Day Out!
- GIRLS in STEM seminar
- MOD
- Space Discovery Centre.
- Industry Tours
- University Programs and Tour
- National and International STEM Trips
- NCCS Coding competition
- F1 in Schools
- Hydrogen Grand Prix

STUDENT COMMITMENT

It is expected that students entering the ITEP Program will:

- complete senior mathematics (Mathematical Methods and Specialist Mathematics)
- complete two of senior Biology, Chemistry, Physics or Psychology
- participate in competitions, excursions and clubs
- lead the school values of United, Passionate and Accountable

