

Engineering and Design & Technology Intent Statement

Vision: To cultivate innovative, skilled, and industry-ready engineers and designers who are equipped to meet the evolving demands of the local engineering and design sectors, and to foster a passion for lifelong learning and professional development.

Curriculum Aims:

1. **Industry Relevance:** Align our curriculum with the specific needs and advancements of local engineering and design companies, ensuring that students gain relevant and up-to-date skills. This will be achieved through regular consultation with industry partners and adapting our program to reflect emerging trends and technologies in these sectors.
2. **Progression Pathways:** Provide a robust foundation for students aspiring to pursue Level 2 and 3 apprenticeships, as well as progression to Level 3 college courses. This will be facilitated by incorporating core competencies and skills required for these pathways into our curriculum design.
3. **Practical Application:** Emphasise hands-on learning experiences through workshops, projects, and industry visits and guest speakers. This approach aims to bridge the gap between theoretical knowledge and practical application, preparing students for real-world challenges and opportunities.
4. **Critical Thinking and Problem Solving:** Develop students' abilities to think critically, solve complex problems, and innovate. This will be encouraged through project-based learning, where students tackle real-world problems and develop solutions in collaboration with their peers and industry professionals. (In development)
5. **Sustainable Practices:** Incorporate principles of sustainability and environmental consciousness in design and engineering projects. This aligns with the growing global emphasis on sustainable practices in these industries. (To be tied to the projects being developed mentioned in the previous heading)
6. **Inclusivity and Diversity:** Ensure that our curriculum is inclusive, catering to a diverse range of learners with different strengths, interests, and learning styles. This includes providing support for students with different educational needs and backgrounds.
7. **Community and Industry Engagement:** Foster strong links over time with the local community and industry partners. This will provide students with exposure to professional environments, mentorship opportunities, and insights into the career paths available in the engineering and design sectors.
8. **Continuous Improvement:** Regularly review and update the curriculum to reflect changes in industry standards, technological advancements, and educational research. This commitment to continuous improvement ensures that our program remains relevant and effective.

Outcome: Students completing our Engineering and Design and Technology program will be well prepared to enter apprenticeships, further education, or the workforce with a strong foundation of knowledge, practical skills, and a mindset geared towards innovation and continuous learning.