**Name of Subject:** Design and Technology- Systems and Control Products 1 (Electronics)

**Stage:** 1

**General Information:** In this subject, students apply their knowledge and understanding of technological concepts to the investigation, analysis, development, and communication of ideas for product or systems design, production, and evaluation. This involves a model of learning that incorporates knowledge, skills, design principles, and production techniques in problem-solving contexts.

**Content:** Integrated Systems and Control products include the following;

- electrical systems
- electronic systems
- mechanical systems
- energy
- programmable control devices

**Assessments:** There is no Examination, however, there are a few short tests and assignments during the course. Assessment comes in three different forms and the weight of each component is as shown below.

- Assessment Type 1: Skills and Applications Tasks- 20%
- Assessment Type 2: Folio-20%
- Assessment Type 3: Product-60%

**Special Information:** Students need to be prepared to source their own components from the local electronics shops, in order to complete certain projects. This will happen only when the component(s) chosen by the student to complete a chosen project is/are not available in the school laboratory and in most cases, the component(s) will cost only a few dollars.

**Preferred Prerequisites:** There are no prerequisites, however, students are preferred to have studied Electronics at Year 8, or Year 9, or Year 10, or have some other basic knowledge of the subject. The programme is designed to cater for students with varying background knowledge of Electronics.

*NB. Whilst the practical component to this subject takes the bigger share in all respects, students need to be prepared to for some Theory lessons and to write some essays on various topics that are related to their programme of study.*