



**Module 1: Introduction to Technology (mandatory outcomes) 25%**

- 1.1 - identify technology in its various forms
- 1.2 - demonstrate an understanding of the impacts of technology and its cultural and historical influences
- 1.3 - demonstrate an understanding of the history and evolution of a specific area of technology
- 1.4 - investigate strengths related to technological career options
- 1.5 - demonstrate an ability to work in a team
- 1.6 - solve technological problems using the modified problem - solving model
- 1.7 - create design portfolios for solutions to each design problem
- 1.8 - implement life-cycle analysis when designing and constructing solutions to technological problems
- 1.9 - use a variety of materials and tools as part of solving technological problems
- 1.10 - demonstrate safety rules for tools and machines used
- 1.11 - demonstrate safe attitudes and practices in the laboratory
- 1.12 - safely employ appropriate tools, machines, and equipment to solve technological problems

**Module 2: Green Technology 20%**

- 2.1 - examine the consequences of technology in global manufacturing systems
- 2.2 - examine the consequences of technology in domestic use and consumption of energy
- 2.3 - design and construct a model renewable energy system
- 2.4 - manipulate and test a renewable energy system

**Module 3: Media Technology 20%**

- 3.1 - demonstrate an understanding of the principles of design
- 3.2 - demonstrate an awareness of diverse target audiences
- 3.3 - create solutions to design problems using a variety of communication skills
- 3.4 - demonstrate effective use of communication and design tools

**Module 4: Control Technology 35%**

- 4.1 - demonstrate an understanding of technological systems (input, process, output)
- 4.2 - design and construct solutions to problems related to control technology
- 4.3 - manipulate a variety of materials in the construction of a control system
- 4.4 - test and evaluate a control system

**\* It is important to understand that module 1 will be covered throughout the course and will be assessed simultaneously while completing modules 2, 3 and 4 \***

All students will be assigned both @nspes.ca email address in order to log into the course website (Moodle) and submit all assigned work. Students will create @gnspes.ca accounts to access the new Google Drive service provided by the Department of Education. Students will be provided with a CPA network login and must maintain an account(s) in good standing to complete all reports for this course.

## **Assessment and Evaluation**

Technology education classes require commitment and students must take responsibility for achieving the outcomes. Students need to make sure that they stay on task and contribute to their group on a daily basis. If the student encounters a problem, it is their responsibility to communicate their concern to the classroom teacher and work together to finalize a solution. Please note the following differences between assessment and evaluation:

**Assessment** is the process of gathering, from a variety of sources, information that accurately reflects how well a student is achieving the learning outcomes in a subject or course.

- *Formative assessment* is to show growth over time, determine student needs, plan next steps in instruction, and provide students with descriptive feedback.
- *Summative assessment* is to determine the extent to which learning has occurred for students.

**Evaluation** is the process of analyzing, reflecting upon, and summarizing assessment information and making judgements and / or decisions based on the information gathered.

EXT is a project-based course structured around design challenges. Students are provided rubrics, asked to keep logs, portfolios, give presentations and be active participants in the assessment process. As such all projects are formative pieces that will undergo several revisions using the *Design Process* which will help students develop the critical analysis/thinking and self-assessment strategies necessary to complete each challenge. Student work is eventually submitted for evaluation purposes. No one piece of assessment will be worth more than 50% of the unit.

Due to the nature of the course the majority of all work is completed during school hours, as such it is extremely important that students attend all classes and are on time. The course is structured in such a way that there is no traditional final examination; however a summative portfolio-type project will be completed by all students in June. ***This is NOT an exemptible course.***

## **Communication of Student Achievement**

A collaborative effect of all stakeholders (student/parent/teacher) is important to ensure student academic success. In an effort to maintain communications, a number of avenues are available.

- Class websites are updated daily.
- Marks and attendance can be checked at any time on Parent/Student Portal of PowerSchool.
- The Auto-dialer calls home regarding unexcused absences and upcoming events.
- Parents and students are encouraged to contact the teacher via e-mail if they have any concerns.

## **Important Dates**

Curriculum night February 10, 2015 (6:30 – 8:00)

Parent/teacher interviews April 22 (1:30 – 3:30 and 6:30 – 8:30) 2015

**We look forward to working with you and hope that we can help you meet your goals with great success.**