

# UNIVERSITY OF TECHNOLOGY, JAMAICA

## CO-OPERATIVE EDUCATION

### SYLLABUS OUTLINE

<b>FACULTY:</b>	Faculty of Engineering and Computing
<b>SCHOOL/DEPT:</b>	School of Engineering
<b>COURSE OF STUDY:</b>	BSc. Chemical/Mechanical/Electrical Engineering
<b>MODULE TITLE:</b>	Industrial Work Experience (Co-operative Education)
<b>MODULE CODE</b>	<i>IWEP2001</i>
<b>DURATION:</b>	400 hours
<b>CREDIT VALUE</b>	1
<b>PREREQUISITES:</b>	Students must have completed 2 <sup>nd</sup> year engineering courses prior to their placement

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#### 1.0 MODULE DESCRIPTION

The industrial work experience (Co-operative Education/Co-op Ed) will allow undergraduate students in chemical, electrical and mechanical engineering to interact directly with practicing engineers and their specific technical environments. Emphasis will be placed on procedures as well as the development of ethical and professional standards. Students will be exposed to trouble shooting and problem solving at the industrial level.

#### 2.0 MODULE OBJECTIVES/LEARNING OUTCOMES

Upon completion of the module, the student should be able to:

- i. identify problems on an industrial level
- ii. trouble shoot problems on an industrial level
- iii. operate safely and competently in a technical environment
- iv. prepare technical reports
- v. present technical reports
- vi. relate interpersonally with experienced technical professionals at the industrial level

### **3.0 MODULE CONTENT AND CONTEXT**

- 3.1 Review of plant operations under the supervision of experienced technical personnel
- 3.2 Interact with peers and make contributions at technical meetings
- 3.3 Investigation of plant problems under the supervision of experienced technical personnel
- 3.4 Preparation of technical reports
- 3.5 Making technical presentations

### **4.0 LEARNING AND TEACHING APPROACHES**

The learning approach will be a mixture of didactic and experiential with the student being allowed to observe the performance of more experienced persons then left alone to practice what was learned before being observed while replicating the performance.

### **5.0 ASSESSMENT PROCEDURES**

The student will be assessed continuously by his industrial supervisor. Where possible the student should make presentations of interim results of the investigations at the departmental level as well submit a final report to the management team. The supervisor should submit a written report on the student's performance emphasizing areas such as, approach to specific tasks and assignments and the level of competence with which such tasks were completed.

### **6.0 BREAKDOWN OF HOURS**

The 400 hours will be broken down according to the respective supervisor's assessment of the time required for the individual tasks assigned. These hours may include over-time working hours depending on the idiosyncrasies of the particular working environment.

### **7.0 TEXTBOOKS AND REFERENCES**

Literature may be accessed, as necessary, with respect to the assigned task . Students are however, advised to make use of the technical magazines and periodicals that are available at the site as these usually prove to contain a wealth of information appropriate to the particular field.

### **8.0 NAME OF SYLLABUS WRITER/DEVELOPER**

*Major G. Junior Virgo*

### **9.0 DATE OF PRESENTATION OR REVISION**

*March, 2007 \_\_\_\_\_ signature*

### **10.0 DATE OF ACCEPTANCE**