



**Course Name:**  
**Research Project / Report**

**Course No.:**  
**ELN 319**

**TOTAL CREDITS:** 3  
**PREREQUISITES:** ELN 320  
**COURSE LENGTH:** 16 Weeks @ 2 Hours / Week  
**TOTAL CREDIT HOURS:** 32

### **I. COURSE DESCRIPTION**

The Research Report is intended to consolidate the skills developed in the first 2 years of study, and apply these skills to a hardware and/or software project. The student must demonstrate these skills at the Engineering Technology level through the research, design, construction, verbal and written presentations of their final project. In addition, the student must efficiently implement project management skills.

### **II. TOPICS TO BE COVERED:**

As approved by faculty advisor

### **III. LEARNING OUTCOMES AND ELEMENTS OF PERFORMANCE:**

#### **A. Learning Outcomes:**

1. Research and Prepare a Technical Report
2. Demonstrate proficiency in Project Management
3. Design, Construct and Demonstrate a technical project

**B. Learning Outcomes with Elements of Performance:**

**Upon successful completion of this course, the student will demonstrate the ability to:**

1. Research, document, manage, commission, prototype, construct, test, modify and produce a technical report as required by the selected major project.

**Potential elements of the performance:**

- Successfully complete the design, construction and demonstration of a technical project.
- Accurately document and produce a technical report on the selected project.

**IV. REQUIRED STUDENT RESOURCES:**

- Log Book - A bound book so pages cannot be added or removed

**V. METHODS OF EVALUATION:**

The following Grading System will be used:

- A+ = 90% - 100%
- A = 80% - 89%
- B = 70% - 79%
- C = 55% - 69%
- R = less than 55% (Repeat Course)
- X = Temporary Grade as per College Policy

The final grade will be derived as follows;

- Final Report .....40%
- Functionality.....40%
- Logbook.....10%
- Management Skills....10%

- **Additional grading criteria will be provided by the Instructor.**
- **The student must have a WORKING project and a Completed Report to obtain a passing grade**

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**VI. SPECIAL NOTES:**

1. The Instructor reserves the right to modify the course as is deemed necessary to meet the needs of the students.
2. Students with special needs (Physical Limitations, Visual/Hearing Impairments etc. ) are encouraged to discuss confidentially, required accommodations with the instructor.
3. Technical requirements and Report criteria will be provided by the Instructor.

**VII. PRIOR LEARNING ASSESSMENT:**

Student wishing to apply for advanced credit, should consult with the Instructor