**CpE Practice and Design 1**

**PROPOSED TITLE:** Developing an E-Learning Hub for First-Year Engineering Students

**PROPONENTS:** Hernandez, Riah-Mari Iris B.

Rivera, Marlon M.

Rosal, Xander Kryklyvy G.

**PROPOSED BUDGET:** PHP 15,000.00

**DURATION:** OCTOBER 2023 to MAY 2024 (or earlier)

**APPROVED PROJECT OUTLINE**

1. Develop an E-Learning Hub tailored to the needs of first-year engineering students, focusing on improving their understanding and proficiency in challenging engineering mathematics and science subjects.
2. The E-Learning hub will have the following hardware such as but not limited to:

* 4u Data Cabinet
* Access Point
* Power Distribution Unit
* Raspberry Pi 4B
* Router
* Sandisk Micro SD card
* SATA SSD
* USB 3.0 2 Bay SSD Docking Station
* UTP cable

1. The E-Learning hub will have the following software and programming tools such as but not limited to:

* Apache2
* CSS (Cascading Style Sheets)
* Django Framework
* HTML (HyperText Markup Language)
* JavaScript
* MySQL
* Python
* Visual Studio Code

1. The E-Learning Hub will be configured to use a RAID 1 setup for data storage.
2. The E-Learning hub will have the following features such as but not limited to:

* Feedback Surveys
* Multimedia Content and e-books
* Peer/Instructor Support
* Progress Certificates
* Progress Tracking
* Structured Learning Paths
* User-Friendly Interface

Prepared by:

**Riah-Mari Iris Hernandez**

Research Proponent 1

**Marlon Rivera**

Research Proponent 2

**Xander Kryklyvy Rosal**

Research Proponent 3

Recommending Approval:

**VICTOR SHERWIN G. GALAMGAM, PhD**

Adviser

Approved:

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Panel Committee