

<b>Final Project Proposal</b>	
<b>Inventory Management System for the UCC Bagong Silang Engineering Library</b>	
<b>Course Code:</b> CPE103	<b>Program:</b> BSCPE
<b>Course Title:</b> Object-Oriented Programming	<b>Date Performed:</b> 2/22/25
<b>Section:</b> 1A	<b>Date Submitted:</b>
<b>Leader:</b> Ampong, J-kevin L. <b>Members:</b> Acebedo, Sebastian C.  Bron, Jhustine A. Manongsong, Ken R. Uy, Junichiro	<b>Instructor:</b> Engr. Maria Rizette Sayo
<b>1. Objective(s):</b>	
1.Design a Rigid Database: Use a database to store the library’s inventory; including books, journals, and other resources. Ensuring an efficient data storage and retrieval.  2. Build the database by creating normalized tables, defining primary and setting up constraints to enforce data integrity and consistency.  3.Optimize Database Efficiency: Apply indexing, query optimization, and efficient schema design techniques to minimize response times and ensure the inventory system scales effectively with growing data loads.	
<b>2. Intended Learning Outcomes (ILOs):</b>	
1. To learn how to create a clear, organized database schema that fits real-world needs. Moreover, translating library inventory requirements into tables and relationships.  2. Learn the Basics or fundamentals of SQL to create a solid, user-friendly inventory system in Python, enabling real-time tracking and reporting of library resources.  3. To gain hands-on experience with SQL and gain/develop practical skills in making a Database and foundation in Python programming	