

Course Title and Code	IT 315 object Oriented Programming II
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I. Course Identification and General Information:

Course Title	Object Oriented Programming II	Course Code	IT 315	Pre-requisite	IT 214
Department	Information Technology	Course Level	6	Credit Hours	3(2+1)

II. Course Description/Topics: The following course topics will be covered.

This course introduces students: Introduction To Python variables – Operators - Declaring and using Numeric data types: int, float, complex - Using string data type and string operations - Defining list - Concept of class, object and instances- Inheritance - Dictionary manipulation, list and dictionary in build functions – Reading and Writing files in python - Python Exception Handling - Python Database Interaction - Python Multithreading - Python - GUI Programming (Tkinter).

III. Course Outcomes: Summary of the main learning outcomes for students enrolled in the course.

- Identifying Object Oriented Programming principles in Python.
- Understand the benefits of a well-structured program Python
- Students are required to communicate and work with a team to learn how to use advanced tools through Python applications to meet certain requirements of project and get influent.
- Students learn the skill on how to use the advanced OOP tools
- Develop problem-solving and programming skills using GUI Programming concept.
- Develop the ability to solve real-world problems through software development in Database applications,
- Develop efficient applications using the OOP of Python concept and conduct experiments, analyze, and interpret the problems, and deduce conclusions to meet certain objectives.

IV. Required Text:

- Python Crash Course: A Hands-On, Project-Based Introduction to Programming.
- Eric Matthes-1st Edition, William Pollock - SBN-10: 1-59327-928-0ISBN-13: 978-1-59327-928- (second Edition) 2019.

V. References:

- Python Cookbook, Third edition by David Beazley, Brian K. Jones.