# IT 5413 SOFTWARE DESIGN AND DEVELOPMENT

# **Module 3: Functions**

## Overview and learning outcomes

In this module, we will be covering the functions. We will also look at both local and global variables and examine functions that return values.

COURSE OBJECTIVES

This module contributes to the following course objectives:

1. Analyze, design, develop, and implement programs in an object-oriented language

MODULE OBJECTIVES

Upon the completion of this module, you will be able to:

## Define a Void function

## Define a local variable and global variable

## Discuss how to use a value-return function

## Write a program using value-return functions

## ASSIGNED READINGS

1. Functions in Python (Located In D2l In The Module)
2. Variables Scope (Located In D2l In The Module)
3. Python Variables. Link: <https://www.youtube.com/watch?v=cQT33yu9pY8>
4. Python Variables. Link: <https://www.w3schools.com/python/python_variables.asp>
5. Python Function. Link: <https://www.w3schools.com/python/python_functions.asp>
6. Python Function. Link: <https://www.youtube.com/watch?v=u-OmVr_fT4s>

## RECOMMENDED READINGS

1. Introducing Python: Chapters 10, 13 (Link: <https://www.brianheinold.net/python/A_Practical_Introduction_to_Python_Programming_Heinold.pdf>)
2. Python variables. Link: <https://www.simplilearn.com/tutorials/python-tutorial/python-variables>
3. Variables and types. Linke: <https://www.learnpython.org/en/Variables_and_Types>

## ACTIVITIES AND ASSESSMENTS

1. Module 3 Discussion
2. Assignment 3 (Located In D2l In The Module)