Course Name	INTRODUCTION TO COMPUTING	Course Code	111COMP-3		
Credit Hours	3	Contact Hours	Theory	Lab	Total
			2	2	4
Offered as	☐ University Requirement ☒ College Requirement ☐ Program Requirement		☒ Core ☐ Elective		
Offered in	☒ COMP - Computer Science ☒ ITEC- Information Technology ☒ CNET - Computer & Network Engineering				
Level	1st Level	Prerequisite	NIL		

Course Description:

This course introduces the fundamental concepts and features of Computer. It includes the basics of Computer Hardware, Software, Input / Output devices, Computer User / Client, Computer Architecture, Programming, Data Representation, and Utility Applications. This course also covers Python 3 programming language. This is an introductory course designed for all students of Computer Science. Students will use their problem-solving abilities with programming to implement basic programs in Python.

Course objectives:

Upon completion, the student will be able to:

- Discuss the basic hardware and software components of a personal computers and their application
- Explain the basic fundamentals of data representation, algorithms, flowcharts and computer programming languages.
- Illustrate the methods of communication and information gathering using internet.
- Design a program to solve the problem
- Explain the fundamentals of Python programming.
- Explain the use of procedural statements - assignments, conditional statements, strings, lists, tuples and dictionary.

Grading	☒ Exam 1	10%	☒ Exam 2	10%	☒ Assignment(s)	20%
	☒ Final	40%	☒ Lab	20%	☐ Mini Project	10%

Text Book:

- Dr. Charles Russell Severance (Author), Sue Blumenberg (Editor), Elliott Hauser (Editor),Aimee Andrion (Cover Design), "Python for Everybody: Exploring Data in Python 3", 2nd Edition, ISBN-13: 978-1530051120, 2016.

References:

- Deborah Morley, Charles S. Parker, "Understanding Computers Today and Tomorrow", Cengage Learning, 13th Edition, ISBN- 13: 978-1285767277, 2011.
- Allen B. Downey O'Reilly Media "Think Python: How to Think Like a Computer Scientist", 2nd Edition, ISBN-13: 978- 1491939369, 2015.