**641 - Programming using Python (2 credits)**

**Course Contents:**

Overview Python Language: Lexical Conventions and Syntax, Types and Objects, Operators and Expressions, Flow Control and Exceptions, Modules

Python's Programming Paradigms: Imperative/Procedural/Scripting, Functional Programming, Object Oriented Programming Working with Python: Tools and Environment

The Python Library: String and Text Handling, Data Structures and Algorithms, Threading, Networking, Web Programming, Graphical Programming, Database Access

**Main Reading:**
1. John Zelle, Python Programming: An Introduction to Computer Science, (SECOND EDITION), Franklin, Beedle & Associates Inc.
2. Wesley J. Chun,  Core Python Programming, 2/E
3. Michael Dawson, Programming with Python: A User's Book