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| **CN101** | **Introduction to Computer Programming** | **3(3-0-6)** |
| **TU156** | **Introduction to Computers and Programming** |  |

**Course Description**

Computer Concepts, Computer Components: Hardware and Software Interaction, Current Programming Language: Programming Practices

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| **Week** | **Topic / Content** | **Week** | **Topic / Content** |
| 1 | Introduction to Computers and Programming | 9 | Nest Repetition Structures |
| 2 | Processing, and Output | 10 | Functions |
| 3 | Input, Operator | 11 | Functions |
| 4 | Decision Structures | 12 | Lists |
| 5 | Decision Structures and Boolean Logic | 13 | Tuples |
| 6 | Nest Decision Structures | 14 | Strings |
| 7 | Repetition Structures | 15 | Strings |
| 8 | Midterm |  |  |

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| **Assessment methods** | **Assessment week** | **Assessment score** |
| Homework | 2 - 7, 9 - 15 | 5% |
| Quiz | 6, 10, 12 | 15% |
| Midterm | 8 | 35% |
| Final | 16 | 45% |

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| **1.** | **Main Text** |
|  | * Tony Gaddis, “Starting Out with Python”, 4th Global edition, Pearson, 2019 * P. J. Deitel, H. M. Deitel, “C How to Program”, 5th ed., Pearson, 2007 |
| **2.** | **Course Materials** |
|  | * <https://prog.ece.engr.tu.ac.th/> * <https://github.com/sommedosa/Python-Programming> |