



TOT Program

Course Syllabus

Course Title: Python coding - 101

Prerequisites: none

Credit hours: 15

Target audience: Trainers and Teachers

Course Description:

This is a foundational programming course; it's dedicated to novice people to learn them coding in a hands-on manner through Python programming language. They are going to learn a set of basics and essentials of python coding (variables, data types, functions, sequences of orders execution, conditional and repeating statements, performing math operations ...etc.). This course equips trainees with the required basic skills that allow to choose and start learning python implementations.

The Content	Duration (hour)
<p>Subject 1: Introduction</p> <ul style="list-style-type: none"> • Offline & online editors • Jargon <p>Subject 2: Basics</p> <ul style="list-style-type: none"> • Variables & Data types • General purposes functions • Numeric Operations • Logic Operations • Implementations <p>Subject 3: Methods Manipulating</p> <ul style="list-style-type: none"> • String methods • String Operations • Logic Operations • Implementations <p>Subject 4: Control Statements</p> <ul style="list-style-type: none"> • (if) statement • (for) statement • (while) statement • Nested loop • Implementations <p>Subject 5: Lists and Tuples</p> <ul style="list-style-type: none"> • 1D & 2D lists • 1D tuples • Methods in use • Implementations <p>Subject 6: Functions</p> <ul style="list-style-type: none"> • Body structure • Methods and attributes • Parameters and arguments • Implementations 	<p>15</p>