Speciali zation	Course Name with Code	Module	End Date for Completion	Course contents
JF COMPUTING	Introducti on to Interactive Programm ing in	I	March 10,2023	 Basic elements of python programming Statements, expressions, variables Explore python as a calculator Basic constructs of python programming - Functions, logic, conditionals Event-driven programming Local/global variables
	Python (CRA 4063) Mapped to An Introductio n to Interactive Programmi ng in Python(1 and 2)	II	April 08,2023	 Buttons and Input Fields Canvas, drawing, timers Lists, keyboard input The basics of modeling motion Mouse input, list methods, dictionaries Classes and object-oriented programming
		III	May 06,2023	 Tiled Images Visualizing Objects Basic game physics Sprites Sets and Animation
FUNDAMENTALS OF COMPUTING	Mathemat ical Problem Solving using	ı	March 10,2023	 Introduction, Required python knowledge, Coding Style and Standards in python Python Modules Importing Custom modules in Python CodeSkulptor Python Development Environments Importance of Testing, Building Tests for Python Programs Plotting and grids
	Python (CRA 4064) Mapped to Principles of Computing (1)	II	April 08,2023	 Importance and basics of Probability Expected value Monte Carlo methods (Tic-Tac-Toe, Nim) Randomness Objects and references Importance of Combinatorics, Enumeration, Permutations and combinations Combinatorics and Password Breaking and debugging Analyzing a Simple Dice Game

III	May 06,2023	 Importance of Counting, sum Functions: Finding the max Higher-order functions Plotting Statement Counts
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