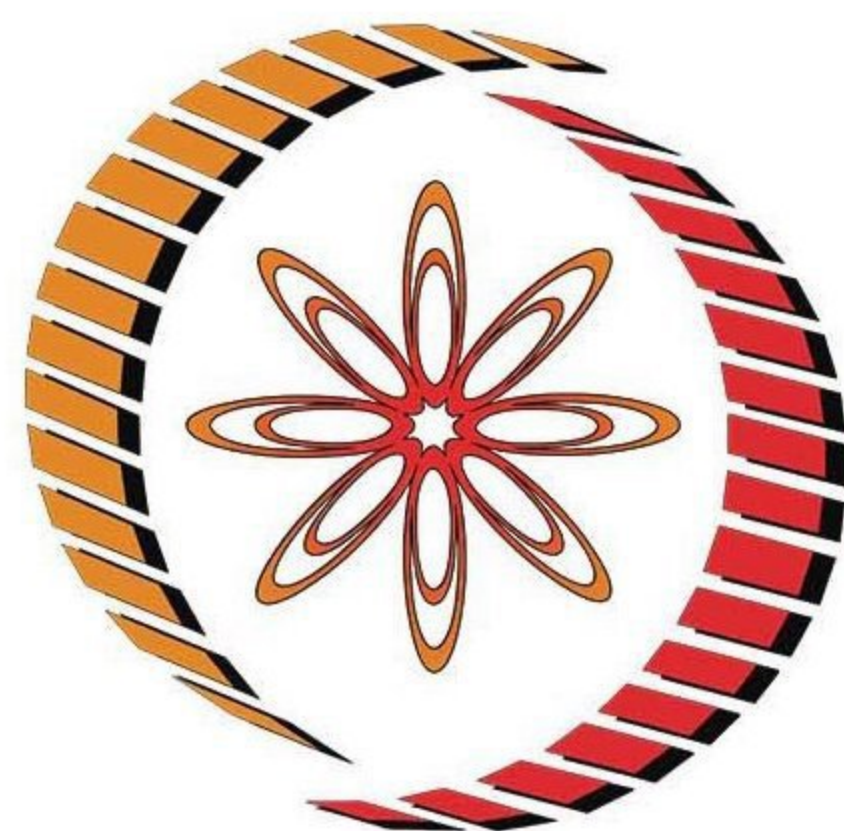# B. K. BIRLA COLLEGE OF ARTS, SCIENCE AND COMMERCE (AUTONOMOUS), KALYAN

CERTIFICATE COURSE

The Joy of Computing using Python

- Motivation for Computing
- Welcome to Programming!!
- Variables and Expressions: Design your own calculator
- Loops and Conditionals: Hopscotch once again
- Lists, Tuples and Conditionals: Lets go on a trip
- Abstraction Everywhere: Apps in your phone
- Counting Candies: Crowd to the rescue
- Birthday Paradox: Find your twin
- Google Translate: Speak in any Language
- Currency Converter: Count your foreign trip expenses
- Monte Hall: 3 doors and a twist
- Sorting: Arrange the books
- Searching: Find in seconds
- Substitution Cipher: What's the secret!!
- Sentiment Analysis: Analyse your Facebook data
- 20 questions game: I can read your mind
- Permutations: Jumbled Words
- Spot the similarities: Dobble game
- Count the words: Hundreds, Thousands or Millions.
- Rock, Paper, and Scissor: Cheating not allowed!!
- Lie detector: No lies, only TRUTH
- Calculation of the Area: Don't measure.
- Six degrees of separation: Meet your favourites
- Image Processing: Fun with images
- Tic tac toe: Let's play
- Snakes and Ladders: Down the memory lane.
- Recursion: Tower of Hanoi
- Page Rank: How Google Works!!

Elite

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The Joy of Computing using Python

with a consolidated score of **75** %

Online Assignments	24.78/25	Programming Assignment	25/25	Proctored Exam	25/50

Total number of candidates certified in this course: **9957**

Devendra Jalihal

Prof. Devendra Jalihal
Chairperson,
Centre for Outreach and Digital Education, IITM
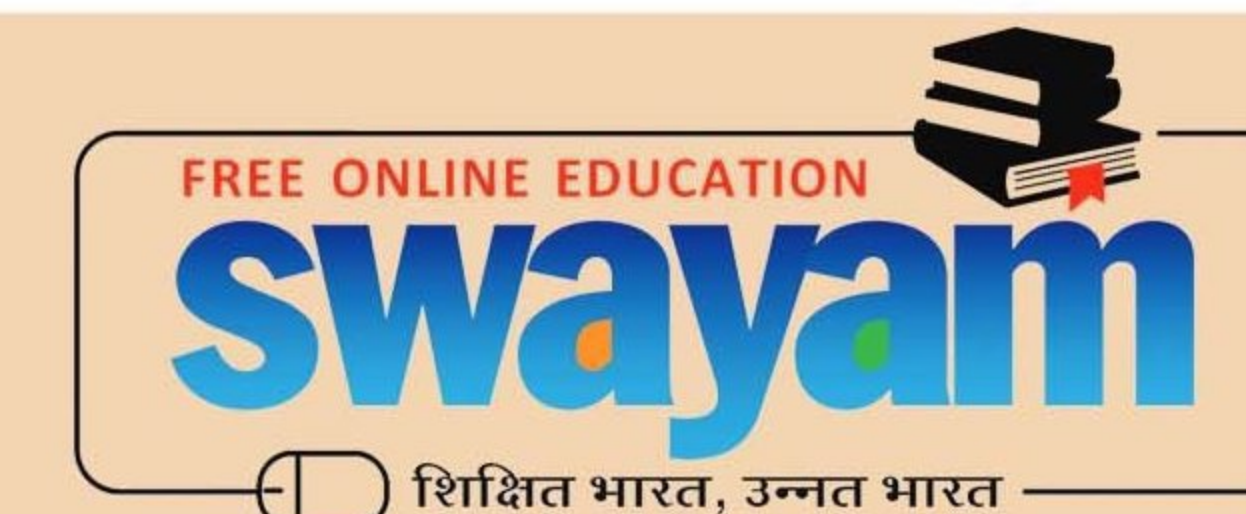
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