

(Annexure H-15)

COMPUTER RELATED COURSE
of
BACHELOR OF VOCATION (MANAGEMENT & SECRETARIAL PRACTICES)
SEMESTER-V
(Under Credit Based Continuous Evaluation Grading System)

Session: 2024-25



The Heritage Institution
KANYA MAHA VIDYALAYA
JALANDHAR
(AUTONOMOUS)

Kanya Maha Vidyalaya, Jalandhar (Autonomous)

Session 2024-25

Bachelor of Vocation
(Management & Secretarial Practices) (Semester-V)

Course Title	Course Code	Hours per week	Credit		Marks			Examination Time (in Hours)	
		L-T-P	L-T-P	Total	Total	Ext.		CA	
						L	P		
Introduction to Python Programming	BVMM-5126	3-0-2	3-0-1	4	50	25	15	10	3+3

Bachelor of Vocation
(Management & Secretarial Practices) (Semester-V)
Session 2024-25
Course Code: BVMM-5126
INTRODUCTION TO PYTHON PROGRAMMING

Course Outcomes:

After passing course the student will be able to:

CO1: Comprehend basics of Python programming.

CO2: Learn the use of operators and data types.

CO3: Learn the use of control structures.

CO4: Implement various built-in and user defined functions to solve mathematical problems.

1/1
Bachelor of Vocation
(Management & Secretarial Practices) (Semester-V)
Session 2024-25
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INTRODUCTION TO PYTHON PROGRAMMING

L	T	P	Total Credits
3	0	1	4

Examination Time: 3 Hour

Max. Marks: 50

Theory: 25

Practical: 15

CA: 10

Instructions for the Paper Setter

Five questions of equal marks (5 marks each) are to be set, two in each of the four Sections (A-D). Questions of Sections A-D should be set from Units I-IV of the syllabus respectively. Questions may be subdivided into parts (not exceeding four). Candidates are required to attempt five questions, selecting at least one question from each section. The fifth question may be attempted from any Section.

Unit I
Introduction to Python Programming Language: Features of Python, Limitations, Major Applications of Python, Getting, setting up the Python development Environment, Basic syntax, interactive shell, editing, saving and running a script.
Unit II
Python Operators; Keywords, Identifiers, Literals, Variables, Identifiers, Keywords, Expressions, Statements and Data. Python Native Data Types: Numbers, Lists, Tuples, Sets, Dictionary, Functions & Methods of Dictionary, Strings.
Unit III
Control Structures: Selection control, Iterative statements, Jumping statements.
Unit IV
Functions: Fundamental Concepts, Program Routines, Flow of Execution, Parameters & Arguments, Recursive Functions, Recursive Problem Solving, Iteration vs. Recursion, Basic OOPs concept.

REFERENCES:

1. Charles Severance, Python for Informatics, Version 0.0.7.
2. Charles Dierbach, Introduction to Computer Science Using Python: A Computational Problem-Solving Focus, Wiley Publications, 2012.
3. Gutttag John V, Introduction To Computation And Programming Using Python, PHI, 2014.
4. Jeeva Jose and Sojan P. Lal, Introduction to Computing & Problem Solving Through Python, Khanna Publishers, 2015.
5. Mark J. Guzdial, Introduction to Computing and Programming in Python, , 2015.

