



# VEMANA INSTITUTE OF TECHNOLOGY

Koramangala, Bengaluru - 34

## Department of Computer Science & Engineering



Subject	Python Application Programming												15CS664		
<b>COURSE OUTCOMES</b>															
CO No.	On completion of this course, students will be able to:												Cognitive Level		
15CS664.1	Understand the Python syntax and semantics and be fluent in the use of Python flow control and functions.												L2		
15CS664.2	Understand the concepts of Iterations, Strings and File Systems.												L2		
15CS664.3	Understand the concepts of data structures like Lists, Tuples, Dictionaries and use of Regular Expressions.												L2		
15CS664.4	Understand the concepts of Object-Oriented Programming as used in Python.												L2		
15CS664.5	Understand the concepts related to Network Programming, Web Services and Databases in Python.												L2		
<b>CO-PO-PSO MAPPING</b>															
CO No.	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO1 0	PO1 1	PO1 2	PSO1	PSO2	PSO3
15CS664.1	2	2	1	-	-	-	-	-	-	-	-	2	1	-	-
15CS664.2	2	2	2	-	-	-	-	-	-	-	-	2	2	-	-
15CS664.3	2	2	2	-	-	-	-	-	-	-	-	2	2	-	-
15CS664.4	2	2	2	-	-	-	-	-	-	-	-	2	2	-	-
15CS664.5	2	2	2	-	-	-	-	-	-	-	-	2	2	-	-
<b>15CS664</b>	<b>2.0</b>	<b>2.0</b>	<b>1.8</b>	-	-	-	-	-	-	-	-	<b>2.0</b>	<b>1.8</b>	-	-

**CO-PO-PSO JUSTIFICATION**

<b>CO No.</b>	<b>PO/PSO</b>	<b>CL</b>	<b>Justification</b>
15CS664.1	PO1	2	Moderately mapped as students understand the only basics of Python syntax and semantics and be fluent in the use of Python flow control and functions.
	PO2	2	Moderately mapped as only few students identify their own problem by conducting literature review for writing programs.
	PO3	1	Slightly mapped as only few students will be designing and implementation that is required to write the program for the given problem statement.
	PO12	2	Moderately mapped as students apply the concepts learnt in continuing professional development and new developments.
	PSO1	1	Students understand fundamentals of Python syntax and semantics and fluent in the use of concepts in writing the programs to build application.
15CS664.2	PO1	2	Moderately mapped as the students need the knowledge of python syntax and semantics related to Files and Strings to apply them in building applications which needs python programming constructs
	PO2	2	Moderately mapped as problem analysis is necessary for solving /developing any application using appropriate python programming construct such as Files and Strings.
	PO3	2	Moderately mapped as students as the process of design and implementation has to be followed while applying the concepts.
	PO12	2	Moderately mapped as students apply the concepts learnt in continuing professional development and new developments.
	PSO1	2	students understand fundamentals of Python syntax and semantics and fluent in the use of concepts in writing the programs to build application.
15CS664.3	PO1	2	Students need the knowledge of python syntax and semantics related to Lists, Dictionaries, tuples and regular Expressions to apply them in building applications
	PO2	2	Problem analysis is necessary for solving /developing any application using appropriate python programming construct such as to Lists, Dictionaries, tuples and regular Expressions.
	PO3	2	The process of design and implementation has to be followed while applying the concepts.
	PO12	2	Students apply the concepts learnt in continuing professional development and new developments
	PSO1	2	Students understand fundamentals of Python syntax, Lists, Dictionaries, tuples and regular Expressions and fluent in the use of concepts in writing the programs to build application.

15CS664.4	PO1	2	The students need the knowledge of object oriented concepts in python syntax and semantics and apply them in developing applications
	PO2	2	Moderately mapped to problem analysis as the moderate number of students can use the concepts of object oriented programming in finding the solutions to the problem.
	PO3	2	Moderately mapped to design and development as the moderate number of students use python in building the applications.
	PO12	2	Moderately mapped as students apply the concepts learnt in continuing professional development and new developments.
	PSO1	2	Students understand fundamentals of Python syntax and semantics, object oriented concepts and fluent in the use of concepts in developing / build application.
15CS664.5	PO1	2	The students should have the basic knowledge of the Python APIs related to network programming, web services and database programming.
	PO2	2	The students need to perform the complete problem analysis while developing the applications related to networks, web and database.
	PO3	2	The students and design and develop the network, web and database applications using python APIs.
	PO12	2	Students apply the concepts learnt in continuing professional development and new product developments.
	PSO1	2	Students understand fundamentals of Networks, databases, Python syntax and semantics and fluent in the use of concepts in developing / build application.

**Prepared by:**

**Jagadamba A / Rachitha M**

**Approved by:**

**(H.o.D)**