PYTHON A	PPLICATION P	ROGRAMMING		
[As per Choice]	Based Credit Sys	tem (CRCS) schomel		
(Effective from	om the academic	year 2017 -2018)		
	SEMESTER -	VI		
Subject Code	17CS664	IA Marks	40	
Number of Lecture Hours/Week	3	Exam Marks	60	
Total Number of Lecture Hours	40	Exam Hours	03	
	CREDITS - 0		103	
Module – 1 Why should you learn to write programs, Variables, expressions and statements, Conditional execution, Functions				Teaching Hours 8 Hours
Module – 2				
Iteration, Strings, Files				
Module – 3				8 Hours
Lists, Dictionaries, Tuples, Regular	Everagione			
Module – 4				8 Hours
	otions Classes			
Classes and objects, Classes and functions, Classes and methods Module - 5				8 Hours
	ruicos Haine data	1 100-		
Networked programs, Using Web Services, Using databases and SQL Course outcomes: The students should be able to:				8 Hours
Course outcomes: The students show	uld be able to:			

- Demonstrate proficiency in handling Strings and File Systems.
- Implement Python Programs using core data structures like Lists, Dictionaries and use Regular Expressions.
- Interpret the concepts of Object-Oriented Programming as used in Python.
- Implement exemplary applications related to Network Programming, Web Services and Databases in Python.

Question paper pattern:

The question paper will have TEN questions.

There will be TWO questions from each module.

Each question will have questions covering all the topics under a module.

The students will have to answer FIVE full questions, selecting ONE full question from each module.

Text Books:

- Charles R. Severance, "Python for Everybody: Exploring Data Using Python 3", 1st Edition, CreateSpace Independent Publishing Platform, 2016. (http://do1.dr-chuck.com/pythonlearn/EN_us/pythonlearn.pdf) (Chapters 1 13, 15)
- 2. Allen B. Downey, "Think Python: How to Think Like a Computer Scientist", 2ndEdition, Green Tea Press, 2015. (http://greenteapress.com/thinkpython2/thinkpython2.pdf) (Chapters 15, 16, 17)(Download pdf files from the above links)

Reference Books:

- Charles Dierbach, "Introduction to Computer Science Using Python", 1st Edition, Wiley India Pvt Ltd. ISBN-13: 978-8126556014
- Mark Lutz, "Programming Python", 4th Edition, O'Reilly Media, 2011.ISBN-13: 978-9350232873

- Wesley J Chun, "Core Python Applications Programming", 3rdEdition, Pearson Education India, 2015. ISBN-13: 978-9332555365
- Roberto Tamassia, Michael H Goldwasser, Michael T Goodrich, "Data Structures and Algorithms in Python", 1st Edition, Wiley India Pvt Ltd, 2016. ISBN-13: 978-8126562176
- ReemaThareja, "Python Programming using problem solving approach", Oxford university press, 2017

Dept. Of Computer Science & Engineering

Alva's institute of Engu.

Mijar, MOODBIDRI - 574 225