"ज्ञान, विज्ञान आणि सुसंस्कार यांसाठी शिक्षणप्रसार
- शिक्षणमहर्षी डॉ. बापुजी साळुंखे

Vivekanand College (Autonomous), Kolhapur
Department of Computer Science

Date:25/06/2019

<u>IMPORTANT NOTICE</u>

All the students from **B.Sc. I** taking admission **to B.Sc. II** *(Year Down/Newly admitted from other college to Vivekanand College, Kolhapur)* are hereby informed that it is mandatory to complete a bridge course so as to accommodate concern student in autonomous curricula.

The commencement of the said bridge course will be from 1st July 2019 to 13th July 2019.

Dr. V. B. Waghmare
Head of Department
Dept. of Computer Science
Vivekanand College, Kolhapur

Vivekanand College (Autonomous), Kolhapur
Department of Computer Science
Syllabus of Bridge Course for B. Sc. II students |15 Hours|

Unit I	Conditional Statements: if, if-else, nested if else Looping: for, while, nested loops, else clause with while and for loop Control statements: Terminating loops, skipping specific conditions(break, continue, pass).**Numeric Functions,String Manipulation** Lists: Creating a list, Displaying list(print()), Basic OperationIteration (for var in list), Slicing, Updating(=) and deleting(del) element of a list, Compare (cmp()), Maximum(max()) and minimum (min())), List Methods **Tuples (sequence of immutable objects)** : Creating tuples(using () brackets) and Deleting tuple(del), empty tuple, Displaying(print()), Basic Operation	5H
Unit II	Dictionaries – Concept of dictionary, Creating Dictionary ({Key:Value....}), Values are mutable objects but keys are immutable object, Properties of Dictionary keys, Basic Operation(Length (len()), Compare (cmp())), Dictionary Methods **Functions:** Defining Functions(def, name, arguments, : , function suite, return statement), calling a function **Algorithm, Searching and Sorting** – Searching(Linear, Binary) and sorting techniques (Bubble, Insertion, Merge), Efficiency of algorithms **Python File Input-Output:** Opening and closing file, Various types of file modes, reading and writing to files	5H
Unit III	**ER to The Relational Model ,Introduction to Functional Dependencies and Normalization** –1NF, 2NF, 3NF, BCNF **Relational Algebra:** operations (selection, projection, set operations union, intersection, difference, cross product, division, Joins –conditional, equi join and natural joins),**MySQL Joining Tables** – inner join, outer join (left outer, right outer, full outer),**Database Protection:** Security Issues, Threats to Databases, Security Mechanisms, Role of DBA, Discretionary Access Control **MySQL** – Stored functions, procedures, cursor, trigger, views (creating, altering dropping, renaming and manipulating views)	5H

Text books:
1) Charles Dierbach, *Introduction to Computer Science using Python*, Wiley, 2013
2) James Payne , *Beginning Python: Using Python 2.6 and Python 3*, Wiley India, 2010
3) Paul Gries , Jennifer Campbell, Jason Montojo, *Practical Programming: An Introduction to Computer Science Using Python 3*, Pragmatic Bookshelf, 2/E 2014

Additional References:
1. Paul Gries , Jennifer Campbell, Jason Montojo, *Practical Programming: An Introduction to Computer Science Using Python 3*, Pragmatic Bookshelf, 2/E 2014
2. Adesh Pandey, *Programming Languages Principles and Paradigms*, Narosa, 2008
3. A. Lukaszewski, *MySQL for Python: Database Access Made Easy*, Pact Publisher, 2010

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Vivekanand College (Autonomous), Kolhapur
Department of Computer Science

TIME-TABLE FOR BRIDGE COURSE ON PYTHON
From 01-13 July 2019

Sr. No.	Day	Date	Topic Name	Conducted By
1	Monday	01/07/2019	Introduction to Python,Programming Languages, Algorithm,Flowchart	Mr. Shubham Chougale
2	Tuesday	02/07/2019	Python Operators	Mr. Shubham Chougale
3	Wednesday	03/07/2019	Branching & Conditional Statements	Mr. Shubham Khondade
4	Thursday	04/07/2019	Looping & Control Statements	Mr. Pratik Shinde
5	Friday	05/07/2019	Numeric functions	Mr. Shivam B Patil
6	Saturday	06/07/2019	String Manipulation	Mr. Shivam B Patil
7	Monday	08/07/2019	List & it's Operations	Mr. Shivam B Patil
8	Tuesday	09/07/2019	Tuple & it's Operations	Mr. Shivam B Patil
9	Wednesday	10/07/2019	Dictionaries & it's Operations	Mr. Yash Kamble
10	Thursday	11/07/2019	Functions,Searching	Mr. Pratik Shinde
11	Friday	12/07/2019	Module,Sorting	Mr. Raj & Shubham
12	Saturday	13/07/2019	Python File Input/Output	Mr. Raj Valvi

Time: 11:30 to 12:30

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Head of Department
Head
Dept. of Computer Science
Vivekanand College, Kolhapur

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Vivekanand College, Kolhapur(Autonomous)

Department of Computer Science

List of Students (Year Down/From Another College/NON CBCS/ATKT)

B.Sc. II (Computer Science)

Sr. No.	Name of the student	Name of the College/University	GAP	ATKT(CBCS/Non CBCS)	Pass(Non CBCS)	Pass(CBCS)
1	Bhosale Shubham Shivaji	Vivekanand College, Kolhapur	GAP	ATKT(Non CBCS)		
2	Powar Akash Krishna	-"-	-"-	"-"		
3	Mane Prem Pandurang	-"-	-"-	"-"		
4	Patil Pranav Vijay	-"-	-"-	"-"		
5	Momin Misba Muhammed	SMDBS College, Miraj	No GAP	NA	PASS	
6	Shetke Atharv Sanjay	Vivekanand College, Kolhapur	GAP	ATKT(Non CBCS)		
7	Patil Rohan Rajendra	Vivekanand College, Kolhapur	GAP	(Non CBCS)	Pass	

Rec.
for /.5/9

O/c H6 फॉर्म आहेत

Admission Committee

Ms. R. Y. Patil   Dr. V. B. Waghmare

Vivekanand College, Kolhapur

Python Bridge Course

Sr.No	Name	01/07/19	02/07/19	03/07/19	04/07/19	05/07/19	06/07/19
1]	Pranav. V. Patil	P.Patil	P.Patil	P.Patil	P.Patil	P.Patil	P.Patil
2]	Pream. P. Mane	Pue	Pue	Pue	Pue	Pue	Pue
3)	Akash. K. Powar	Powar	Powar	Powar	Powar	Powar	Ab
4>	BHOSALE SHUBHAM	SB	SB	SB	SB	SB	Ab.
5)	Patil Rohan						
6]	Misba Momin	M.A.Momin	M.A.Momin	M.A.Momin	M.A.Momin	M.A.Momin	M.A.Momin

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