



ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY

(A Unit of Alva's Education Foundation)

Shobhavana Campus, Mijar-574225, Moodbidri, D.K

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Affiliated to VTU Belagavi and Approved by AICTE, New Delhi, Recognized by Govt. of Karnataka

ATTENDANCE BOOK

Academic Year : 2020 - 2021
Semester : V Section 'A'
Period of the Semester : From 01-Sep-2020 to 16-Jan-2021
Subject with Code : Application Development Using Python [18CS55]
Name of the Faculty : Ms. Shilpa
Department : Computer Science And Engineering

VISION OF THE INSTITUTE

"Transformative education by pursuing excellence in Engineering and Management through enhancing skills to meet the evolving needs of the community"

MISSION OF THE INSTITUTE

- To bestow quality technical education to imbibe knowledge, creativity and ethos to students community.
- To inculcate the best engineering practices through transformative education.
- To develop a knowledgeable individual for a dynamic industrial scenario.
- To inculcate research, entrepreneurial skills and human values in order to cater the needs of the society.

VISION OF THE DEPARTMENT

"Engendering competent, excellent professionals by transforming the knowledge and computing skills to individuals through modern innovative tools and techniques"

MISSION OF THE DEPARTMENT

1. To produce skilled, creative software developers through rigorous training.
2. To conduct specific technical courses to keep abreast to the latest technological developments and transformations in domains
3. To implement the ideas of research and innovations in interdisciplinary domains
4. To establish Industry-Institute Interaction program to enhance the skills of employability and entrepreneurship.

COURSE OUTCOMES	
C01	Understand and implement the basic programming constructs with flow control statements, functions and Exception handling.
C02	Understand and implement the data structures in python such as List, Tuples, Strings and Dictionaries techniques.
C03	Understand and demonstrate pattern matching technique with RE, complete file system and debugging
C04	Interpret and apply OOP's the concepts such as classes and objects, class and methods, classes and functions and Inheritance in Python
C05	Comprehend and apply the processes of web scraping, working with Excel spread sheet, PDF, Word, CSV, JSON file formats.
C06	

[illegible]

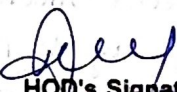
AIET	Lesson Plan & Execution			Format No.	ACD 08	
				Issue No.	01	
				Rev. No.	00	
Name of the faculty				Shilpa		
Semester and Section				V sem 'A' Sec		
Date of Commencement				01- Sep- 2020		
Last Working Day of the Semester				16- Jan - 2021		
Source Materials List						
1. Automate the boring stuff with python				Al Sweigart, 1 st edition, No Strach Press 2015		
2. Allen B Downey, Think python how to think like a computer				Allen B Downey, 2 nd edition, Green Tea Press 2015		
3. Introduction to python program				Gowrishankar S, Veena A, 1 st edition CRC Press/ Taylor & Francis 2018		
4.						
5.						
Subject Name Application Development Using Python [18CS55]						
Period	Plan			Execution		
	Date	Topics to be covered	Source Material needed	Topics Covered	Date	Source Material Referred
01	02/09/2020	Module - 01 Python basics, Entering expression into Interactive Shell, Integer, Floating point, and String data type	01	Module - 01 Python basics, Entering expression into Interactive Shell, Integer, Floating point data type	02/09/2020	01
02	03/09/2020	String Concatenation & replication, Storing values in variables, First program, dissecting your program	01	String data type String concatenation & replication Storing values in variables. First program.	03/09/2020	01
03	04/09/2020	Flow Control, Boolean values, Comparison Operator, Boolean operators, Mixing Boolean & Comparison operator.	01	Dissecting program Flow Control, Boolean values, Comparison Operator Boolean operator	04/09/2020	01
04	09/09/2020	Elements of flow control Program execution, flow control statements	01	Mixing Boolean & Comparison operator, Elements of flow control, program execution	9/09/2020	01

Period	Plan			Execution		
	Date	Topics to be covered	Source Material needed	Topics Covered	Date	Source Material Referred
05	10/09/2020	Importing Modules, Ending a program early with sys.exit()	01	Flow Control Statement, Importing modules, Ending a program with sys.exit()	10/09/2020	01
06	11/09/2020	Function: def stmt with parameter, return values & return statements, The None value	01	Function: def stmt with parameter, return values & return statements	11/09/2020	01
07	16/09/2020	Keyword Arguments & print(), local & global scope, Global statement	01	The None Value, Keyword argument and print()	16/09/2020	01
08	18/09/2020	Exception handling, A short program: Guess the number.	01	Local & global scope, Global stmt Exception handling	17/09/2020	01
09	23/09/2020	Module - 02: List data working with lists, augmented Assignment operators	01	Exception handling A short program	18/09/2020	01
10	24/09/2020	Methods, example programs: Magic 8 ball with a list	01	Short program and Guess the number	23/09/2020	01
11	25/09/2020	List like Type: String and Tuples, References	01	Module - 02 List data working with lists, augmented	24/09/2020	01
12	30/09/2020	Dictionary data type pretty printing.	01	Assignment operator Methods, example programs	25/09/2020	01
13	01/10/2020	Using Data Structure to model real-world things.	01	Magic 8 ball with a list. List like Type: String	30/09/2020	01
14	07/10/2020	Manipulating Strings Working with String	01	Tuples, References Dictionary data type	01/10/2020	01
15	08/10/2020	Useful String Method Project: Password locker	01	Pretty printing Using data Structure to model real	07/10/2020	01
16	09/10/2020	Project Adding bullet to Wiki Markup.	01	Manipulating Strings, Working with string	08/10/2020	01
17	14/10/2020	Module - 03: Pattern Matching with RE, finding pattern without RE finding pattern with RE	01	Working with String, Useful String methods	09/10/2020	01

Period	Plan			Execution		
	Date	Topics to be covered	Source Material needed	Topics Covered	Date	Source Material Referred
18	15/10/2020	More pattern matching with regular expression greedy & Non greedy matching findall(), [] class	01	Useful String methods with example	14/10/2020	01
19	16/10/2020	The Caret & Dollar sign, Wildcard character, Review of Regex Symbols	01	Project: Password locker Introduction to markup	15/10/2020	01
20	21/10/2020	Case insensitive matching sub() method. Combining IGNORECASE, DOTALL, VERBOSE	01	Project: Adding Bullet to wiki markup	16/10/2020	01
21	22/10/2020	Phone no & email extractor reading & writing files file paths. OS. path module	01	Module-03 Pattern matching with RE, finding pattern without RE	21/10/2020	01
22	23/10/2020	File reading/writing process saving variables with shelve module & pprint.pformat function	01	Finding pattern with RE. More pattern matching with regular expression	22/10/2020	01
23	28/10/2020	Organizing file, Shutil module, walking a directory tree, Compressing file with zipfile module.	01	Greedy and Non greedy matching findall()	23/10/2020	01
24	29/10/2020	Debugging, raising exception, Getting Traceback Assertions, Logging Debugger	01	Character class [] The caret & Dollar sign, Wildcard character	28/10/2020	01
25	04/11/2020	Module-04: classes & objects, Attributes, creating instance as return value objects are mutable, Copying	02	Review of Regex Symbols, Case insensitive matching.	29/10/2020	01
26	05/11/2020	Classes & func: Time, pure func, modifiers, prototyping versus planning	02	Combining IGNORECASE, DOTALL, VERBOSE. Phone no, email extractor	4/11/2020	01
27	06/11/2020	Classes & methods, object use, project objects, example, more complicated example	02	Reading & writing files, file paths. OS. path module. File reading process	5/11/2020	01
28	11/11/2020	The init method, The __str__ method, Operator Overloading.	02	Saving variable with shelve module, pprint.pformat function. Organizing	6/11/2020	01
29	12/11/2020	Type based dispatch, polymorphism, Interface & Implementation	02	Shutil module, walking a directory, Compressing file with zipfile module.	11/11/2020	01
30	13/11/2020	Inheritance, class object class attribute, Comparing classes	02	Debugging, raising exception, Getting Traceback assertions Logging	12/11/2020	01

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	Date	Topics to be covered	Source Material needed	Topics Covered	Date	Source Material Referred
31	20/11/2020	Decks, printing the deck, add, remove, Shuffle and sort	02	Module - 04 Classes & objects Attribute, rectangle instance as return value	23/11/2020	02
32	23/11/2020	Inheritance, class diagrams, Data encapsulation.	02	objects are mutable copying, classes & function - Time pure function	20/11/2020	02
33	27/11/2020	Module-05: Web Scraping Downloading files from web with request module. Saving file to hard drive	01	modifiers, prototyping vs planning, class & methods, prototy- pe versus planning	20/11/2020	02
34	28/11/2020	HTML parsing HTML with the beautiful Soup module.	01	OO features, exam- ple, more complica- -ted example	21/11/2020	02
35	04/12/2020	Working with excel Spread Sheet, Excel document, Installing openpyxl, rea- -ding excel documents	01	init--method, str method, Operator overloading, Type based dispatch	23/11/2020	02
36	05/12/2020	Project: Reading Data from Spreadsheet, Writing excel documents, Font objects, Formulas.	01	Polymorphism, Interface and implementation	27/11/2020	02
37	07/12/2020	Working with PDF & word document, PDF documents	01	Inheritance, card object, class attri- -bute, comparing cards	24/11/2020	02
38	11/12/2020	Working with csv file and JSON data, The csv Module, Header for csv file	01	Decks, printing the deck, add, remove	28/11/2020	02
39	12/12/2020	Project: Removing the header from csv file, JSON and APIs	01	Shuffle & sort, Inheritance, class	30/11/2020	02
40	14/12/2020	json module, Project Fetching current weather data	01	Class diagram, Data encapsulati- -on	4/12/2020	02
41				Module - 05 Web scraping, down- -loading files from web with request	4/12/2020	01
42				Saving file to hard drive, HTML pars- -ing with beautiful Soup	5/12/2020	01
43				HTML parsing with beautiful Soup module.	7/12/2020	01

Period	Plan			Execution		
	Date	Topics to be covered	Source Material needed	Topics Covered	Date	Source Material Referred
44				Working with excel Spread sheet, excel document, Installing openpyxl.	4/12/2020	01
45				Reading excel documents. Projects: reading data from spreadsheet	11/12/2020	01
46				Writing excel doc. Font objects, formulas.	12/12/2020	01
47				Working with PDF and word document,	15/12/2020	01
48				Working with JSON data, working with CSV module, CSV file	18/12/2020	01
49				Header CSV file. Removing header from CSV file JSON & API's	19/12/2020	01
50				JSON module, Projects: Fetching weather data	25/12/2020	01
51				Revision of module - 01	28/12/2020	01
52				Revision of module - 01	31/01/2021	01
53				Revision of module - 02	01/01/2021	01
54				Revision of module - 02	01/01/2021	01
55				Revision of module - 03	02/01/2021	01
56				Revision of module - 03	04/01/2021	01

Others	Planned	Actual	Remarks :
Special Classes	5	10	
Tutorials	5	09	
Assignments	03	01	
Seminars	01	01	
IA Tests	03	03	
Portions Covered in the entire Semester	100% [5 modules]		
Course Effectiveness			
Students Feedback	Good		
Students Response	Good		
Result	No. of Students AP	No. of Students Passed	% of Result
	60	59	98%
 Faculty in Charge  Signature of Principal (& Remarks if any) PRINCIPAL Alva's Institute of Engg. & Technology, Mijar, MOODIBIDRI - 574 225, D.K.  HOD's Signature H. O. D. Dept. Of Computer Science & Engineering Alva's Institute of Engg. & Technology Mijar, MOODIBIDRI - 574 225			