

Scheme of B.Sc.-IT (Information Technology)

| Year | Course Code | Subject Name | Theory/ Practical | Total Credit | Total Marks | |
|--------|-------------|---|----------------------|--------------|-------------|-----|
| | | | | | Max | Min |
| First | BSCIT-1T | Computer Fundamental and Operating System | Theory | 4 | 50 | 17 |
| | BSCIT-2T | Programming with C and C++ | Theory | 4 | 50 | 17 |
| | BSCIT-1P | LAB 1: Programming with C and C++ | Practical | 2 | 50 | 17 |
| Second | BSCIT-3T | Data Communication and Networking | Theory | 4 | 50 | 17 |
| | BSCIT-4T | Web Technology and Java | Theory | 4 | 50 | 17 |
| | BSCIT-2P | LAB 2: Web Technology and Java | Practical | 2 | 50 | 17 |
| Third | BSCIT-5T | Data Structure | Theory | 4 | 50 | 17 |
| | BSCIT-6T | Python Programming | Theory | 4 | 50 | 17 |
| | BSCIT-3P | LAB 3: Python Programming | Practical | 2 | 50 | 17 |
| Total | | | | 30 | 450 | |

Note: There shall be four extra credits in all the years of under graduation for internship/apprenticeship. The certificate of extra credits would be provided by the concern university and is not mandatory.



| Part A: Introduction | | | |
|-------------------------------|--------------------------------|---|---|
| Program: Degree Course | | Class: B.Sc.-IT III Year | Year: 2022 Session: 2022-2023 |
| 1 | Course Code | BSCIT-3P | |
| 2 | Course Title | LAB 3: Python Programming | |
| 3 | Course Type | Practical | |
| 4 | Pre-requisite (if any) | Theoretical knowledge of python. | |
| 5 | Course Learning Outcomes (CLO) | At the end of course, Students will be able to <ul style="list-style-type: none"> • Learn the Numbers, Math functions, Strings, List in Python. • Learn the tuples and dictionaries in Python. • Demonstrate proficiency in handling of loops and creation of functions. • Identify the methods to create and manipulate lists, tuples and dictionaries. • Express different Decision-Making statements and Functions. | |
| 6 | Credit Value | Practical: 2 | |
| 7 | Total Marks | Max. Marks: 50 | Min Passing Marks: 17 |

| Part B: Content of the Course | |
|---------------------------------|--|
| Total Periods: 30 | |
| Tentative Practical List | <p>Note: This is tentative list; the teachers concern can add more program as per requirement.</p> <ol style="list-style-type: none"> 1. Python program to find the union of two lists. 2. Python program to find the intersection of two lists. 3. Using for loop, print a table of Celsius/Fahrenheit equivalences. Let c be the Celsius temperatures ranging from 0 to 100, for each value of c, print the corresponding Fahrenheit temperature. 4. Using while loop, produce a table of sins, cosines and tangents. Make a variable x in range from 0 to 10 in steps of 0.2. For each value of x, print the value of sin(x), cos(x) and tan(x). 5. Write a program that reads an integer value and prints —leap year! or —not a leap year!. 6. Write a program that takes a positive integer n and then produces n lines of output shown as follows. For example, enter a size: 5 * ** *** **** ***** 7. Write a function that takes an integer _n'as input and calculates the |



$$1 + 1/1! + 1/2! + 1/3! + \dots + 1/n$$

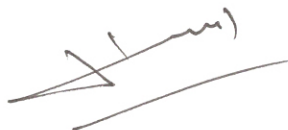
8. Write a function that takes an integer input and calculates the factorial of that number.
9. Write a function that takes a string input and checks if it's a palindrome or not.
10. Write a list function to convert a string into a list, as in list ('_abc') gives [a, b, c].
11. Write a program to generate Fibonacci series.
12. Write a program to check whether the input number is even or odd.
13. Write a program to compare three numbers and print the largest one.
14. Write a program to print factors of a given number.
15. Write a method to calculate GCD of two numbers.
16. Write a program to create Stack Class and implement all its methods. (Use Lists).
17. Write a program to create Queue Class and implement all its methods. (Use Lists)
18. Write a program to implement linear and binary search on lists.
19. Write a program to sort a list using insertion sort and bubble sort.
20. Python program to remove the "i" th occurrence of the given word in a list where words repeat.
21. Python program to count the occurrences of each word in a given string sentence.
22. Python program to check if a substring is present in a given string.
23. Python program to map two lists into a dictionary.
24. Python program to count the frequency of words appearing in a string using a dictionary.
25. Python program to create a dictionary with key as first character and value as words starting with that character.
26. Python program to find the length of a list using recursion.
27. Python program to read a file and capitalize the first letter of every word in the file.
28. Python program to read the contents of a file in reverse order.
29. Python program to create a class in which one method accepts a string from the user and another prints it.
30. Study and Implementation of Database, Structured Query Language and database connectivity.

Part C - Learning Resources

Text Books, Reference Books, Other Resources

Suggested Readings:

1. T. Budd, Exploring Python, TMH, 1st Ed, 2011



2. Allen Downey, Jeffrey Elkner, Chris Meyers, How to think like a computer scientist: Learning with Pyth, Freely available online. 2012
3. Luca Massaron John Paul Mueller, Python for Data Science For Dummies, Wiley, 2ed, 2019
4. Allen B. Downey, Think Python: How to Think Like a Computer Scientist, 2nd edition by O'Reilly, 2015
5. Zed A. Shaw, Learn Python 3 the Hard Way (Addison-Wesley, 2016)

E-Resources:

Topics related Python from W3Shool

1. Introduction
<https://www.w3schools.com/python/default.asp>
2. File Handling
https://www.w3schools.com/python/python_file_handling.asp
3. NumPy
<https://www.w3schools.com/python/numpy/default.asp>
4. Pandas
<https://www.w3schools.com/python/pandas/default.asp>
5. SciPy
<https://www.w3schools.com/python/scipy/index.php>
6. Django
<https://www.w3schools.com/django/index.php>
7. Matplotlib
https://www.w3schools.com/python/matplotlib_intro.asp
8. Machine Learning
https://www.w3schools.com/python/python_ml_getting_started.asp
9. Python MySQL
https://www.w3schools.com/python/python_mysql_getstarted.asp

Topics related Python from SWAYAM/NPTEL

10. <https://www.youtube.com/channel/UCXu1cR5XRauYn37yg-Fh6rA>
11. <https://www.youtube.com/channel/UCJAgwlniUkaShdmA5aAZdQw>

Topics related Python from Tutorials

12. <https://www.javatpoint.com/python-tutorial>
13. <http://docs.python.org/3/tutorial/index.html>
14. <http://interactivepython.org/courselib/static/pythonds>
15. <http://www.ibiblio.org/g2swap/byteofpython/read/>

Part D: Assessment and Evaluation

Suggested Continuous Evaluation Methods:

Maximum Marks: 50

Continuous Comprehensive Evaluation (CCE): Not Applicable

University Exam(UE): 50 Marks

Internal Assessment:



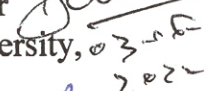
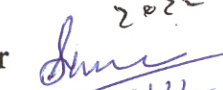
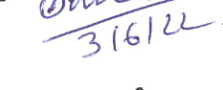



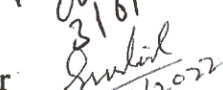
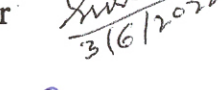

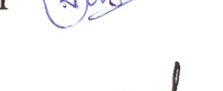
Continuous Comprehensive
Evaluation (CCE)

Class Test/Assignment/Presentation

Not Applicable

Declaration

The syllabus of this subject is frame as per the TOR of department of higher education, Chhattisgarh.

- | | | | |
|---|---|------------------|--|
| 1. Dr. H.S. Hota | - | Chairman |  |
| Prof. and Head, Dept. of Computer Science and Application | | | |
| 2. Dr. Sanjay Kumar | - | Member |  |
| Prof. and Head, SoS in Computer Science, Pt. Ravishankar Shukla University, Raipur | | | 03.06.2022 |
| 3. Mr. Jitendra Kumar | - | Member |  |
| Asst. Prof., Dept. of Computer Science and Application | | | 31/6/22 |
| Atal Bihari Vajpayee Vishwavidyalaya, Bilaspur | | | |
| 4. Mr. H.S.P. Tonde | - | Member |  |
| Asst. Prof. and Head, Dept. of Computer Science, Sant Gahira Guru University Sarguja, Ambikapur | | | |
| 5. Dr. Mamta Singh | - | Member |  |
| Asst. Prof. and Head, Sai College, Bhilai | | | 31/6/22 |
| Hemchand Yadav Vishwavidyalaya, Durg | | | |
| 6. Mr. Sushil Kumar Sahu | - | Member |  |
| Asst. Prof. and Head, Christ College, Jagdalpur | | | 31/6/2022 |
| Shaheed Mahendra Karma Vishwavidyalaya, Bastar | | | |
| 7. Mr. Vikrant Gupta | - | Member |  |
| Prof. and Head, Batmul Ashram College, Salheana | | | |
| Shaheed Nand Kumar Patel University, Raigarh | | | |
| 8. Mr. L.K. Gavel | - | Member |  |
| Asst. Prof. and Head, Govt. Ghanshyam Singh Gupt, PG College, Balod | | | 03/06/22 |
| Hemchand Yadav Vishwavidyalaya, Durg | | | |
| 9. Dr. Anil Kumar Sharma | - | Member |  |
| Asst. Prof. and Head, A.P.S.G.M.N.S, Govt. PG College, Kawardha | | | 03/06/22 |
| Hemchand Yadav Vishwavidyalaya, Durg | | | |
| 10. Mr. Vishwnath Tamrakar | - | Member |  |
| Asst. Prof. and Head, Sant Guru Ghasidas Govt. PG College, Kurud, | | | 03/06/22 |
| Pt. Ravishankar Shukla University, Raipur | | | |
| 11. Ms. Anjeeta Kujur | - | Member |  |
| Asst. Prof. and Head, Govt. R.B.R.N.E.S. PG College, Jashpur | | | 03/06/22 |
| Sant Gahira Guru University Sarguja, Ambikapur | | | |
| 12. Mr. Suresh Kumar Thakur | - | Member |  |
| Asst. Prof. and Head, Indira Gandhi Govt. PG College, Vaishali Nagar | | | 02/06/22 |
| Hemchand Yadav Vishwavidyalaya, Durg | | | |
| 13. Dr. Ugrasen Suman | - | Member | |
| Prof. and Head, Dept. of Computer Science | | | |
| Devi Ahila Vishwavidyalaya, Indore | | (Present Online) | |

Date: 03.06.2022

| Part A: Introduction | | | |
|-------------------------------|--------------------------------|--|---|
| Program: Degree Course | | Class: B.Sc.- IT III Year | Year: 2022 Session: 2022-2023 |
| 1. | Course Code | BSCIT-5T | |
| 2. | Course Title | Data Structure | |
| 3. | Course Type | Theory | |
| 4. | Pre-requisite (if any) | No | |
| 5. | Course Learning Outcomes (CLO) | At the end of this course, the students will be able to: <ul style="list-style-type: none"> • Use different types of data structures, operations and algorithms. • Implement appropriate sorting/searching technique for any given problem. • Use stack, Queue, Lists, Trees and Graphs in problem solving. • Find suitable data structure during application development/Problem Solving. | |
| 6. | Credit Value | Theory: 4 | |
| 7. | Total Marks | Max Marks: 50 | Min Passing Marks: 17 |

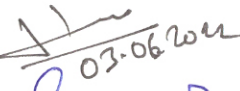
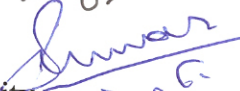
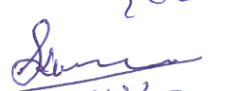
| Part B: Content of the Course | | |
|-------------------------------|--|----------------|
| Total Periods: 60 | | |
| Unit | Topics | No. of Periods |
| I | Introduction and Basic Concepts of Data Structure: Data types: primitive, non-primitive data types, ADT, Linear and nonlinear data structure. Linear Data Structures: Arrays: One dimensional, Multidimensional array, allocation methods, address calculations, sparse arrays. Linked List: Singly and Doubly Linear link lists, singly and doubly circular linked list: Definitions, operations (INSERT, DELETE, TRAVERSE) on these lists. (Insertion operation includes – insertion before a given element, insertion after a given element, insertion at given position, insertion in sorted linked list) | 12 |
| II | Stack: Definition, Operations PUSH, POP, TRAVERSE, implementations using array and linked list, Applications of stack: Infix, Prefix, Postfix representation and conversion using stack, Postfix expression evaluation using stack. Queue: Introduction, and Types of Queues: Priority Queue, Circular queue, Double Ended Queue, operations (INSERT, DELETE, TRAVERSE), implementation using array and linked list and applications | 12 |
| III | Non-linear Data Structure: Trees: Definition of trees and their types, Binary trees, Properties of Binary trees and Implementation operation (Insertion, deletion, searching and traversal algorithm: preorder, post order, in-order traversal), Binary Search Trees, Implementations, Threaded trees, AVL Trees. | 12 |
| IV | Graph: Definition of Graph and their types, adjacency and incident (matrix & linked list) representation of graphs, Graph Traversal – Breadth first Traversal, Depth first Traversal, Connectivity of graphs; Weighted Graphs, Shortest path Algorithm, spanning tree, Minimum Spanning tree, Kruskal's and prim's algorithms. Static Hashing: Introduction, Hash table, Hash function. | 12 |

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| V. | Sorting Methods: Types of sorting, Sequential Sort, Insertion Sort, Bubble Sort, Quick Sort, Merge Sort. Searching: Linear search, Binary search, Hashing, collision resolution methods, Comparison of Search trees. | 12 |
| Keywords: Linear Data Structure, Non-linear Data Structure, Searching, Sorting, Graph. | | |

| Part C -Learning Resources | |
|--|--|
| Text Books, Reference Books, Other Resources | |
| Suggested Readings: <ol style="list-style-type: none"> 1. "Data Structures and Algorithms in C++", Michael T. Goodrich, Wiley, 2007 2. "Fundamentals of Data Structures", Horowitz and Sahani, Computer Science Press, 1978 3. "Data structures and Algorithms", Aefred V. Aho, Jhon E. Joperoft and J.E. Ullman. 4. "An Introduction to Data Structures with Applications", Jean Paul Trembley and Paul Sorenson, TMH, International Student Edition, 1985 5. "Data Structures and Program Design in C", R. Kurse, Leung &Tondo, 2nd Edition, PHI publication | |
| E- Resources: <ol style="list-style-type: none"> 1. Introduction to Data Structure https://www.youtube.com/watch?v=zWg7U0OEAOE&list=PLBF3763AF2E1C572F&index=1 https://www.w3schools.in/data-structures/tutorials/ 2. Stacks https://www.youtube.com/watch?v=g1USSZVWDsY&list=PLBF3763AF2E1C572F&index=2 3. Queues and linked list https://www.youtube.com/watch?v=PGWZUgzDMYI&list=PLBF3763AF2E1C572F&index=3 4. Trees https://www.youtube.com/watch?v=tORLeHHtazM&list=PLBF3763AF2E1C572F&index=6 5. Graphs https://www.youtube.com/watch?v=9zpSs845wf8&list=PLBF3763AF2E1C572F&index=24 | |
| Part D: Assessment and Evaluation | |
| Maximum Marks: 50 | |

Declaration

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- | | | | |
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| 5. Dr. Mamta Singh Asst. Prof. and Head, Sai College, Bhilai Hemchand Yadav Vishwavidyalaya, Durg | - Member | <u>Mamta</u> <u>3/6/22</u> |
| 6. Mr. Sushil Kumar Sahu Asst. Prof. and Head, Christ College, Jagdalpur Shaheed Mahendra Karma Vishwavidyalaya, Bastar | - Member | <u>Sushil</u> <u>3/6/2022</u> |
| 7. Mr. Vikrant Gupta Prof. and Head, Batmul Ashram College, Salheana Shaheed Nand Kumar Patel University, Raigarh | - Member | <u>Vikrant</u> |
| 8. Mr. L.K. Gavel Asst. Prof. and Head, Govt. Ghanshyam Singh Gupt, PG College, Balod Hemchand Yadav Vishwavidyalaya, Durg | - Member | <u>L.K. Gavel</u> <u>03/06/22</u> |
| 9. Dr. Anil Kumar Sharma Asst. Prof. and Head, A.P.S.G.M.N.S, Govt. PG College, Kawardha Hemchand Yadav Vishwavidyalaya, Durg | - Member | <u>Anil</u> <u>03/06/22</u> |
| 10. Mr. Vishwnath Tamrakar Asst. Prof. and Head, Sant Guru Ghasidas Govt. PG College, Kurud, Pt. Ravishankar Shukla University, Raipur | - Member | <u>Vishwnath</u> <u>03/06/22</u> |
| 11. Ms. Anjeeta Kujur Asst. Prof. and Head, Govt. R.B.R.N.E.S. PG College, Jashpur Sant Gahira Guru University Sarguja, Ambikapur | - Member | <u>Anjeeta</u> <u>03/06/22</u> |
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| 13. Dr. Ugrasen Suman Prof. and Head, Dept. of Computer Science Devi Ahila Vishwavidyalaya, Indore | - Member (Present Online) | |

Date: 03.06.2022

| Part A: Introduction | | | |
|-------------------------------|--------------------------------|--|------------------------------|
| Program: Degree Course | | Class: B.Sc.-IT III Year | Year: 2022 |
| | | Session: 2022-2023 | |
| 1. | Course Code | BSCIT-6T | |
| 2. | Course Title | Python Programming | |
| 3. | Course Type | Theory | |
| 4. | Pre-requisite (if any) | Basic knowledge of programming and concept of object-oriented programming | |
| 5. | Course Learning Outcomes (CLO) | <p>At the end of this course, the students will be able to:</p> <ul style="list-style-type: none"> • Define the structure and components of a Python program. • Demonstrate proficiency in handling of loops and creation of functions. Identify the methods to create and manipulate lists, tuples and dictionaries. • Discover the commonly used operations involving regular expressions and file system. • Determine the need for scraping websites and working with CSV, JSON and other file formats. • Interpret the concepts of Object-Oriented Programming as used in Python. | |
| 6. | Credit Value | Theory: 4 | |
| 7. | Total Marks | Max Marks: 50 | Min Passing Marks :17 |

| Part B: Content of the Course | | |
|--------------------------------------|--|-----------------------|
| Total Periods: 60 | | |
| Unit | Topics | No. of Periods |
| I | Introduction to Python: Installing Python, basic syntax, interactive shell, editing, saving, and running a script, the concept of data types; variables, assignments; immutable variables; numerical types, Operators (Arithmetic Operator, Relational Operator, Logical or Boolean operator, Assignment, Operator, Ternary operator, Bit wise Operator, Increment or Decrement operator) and Expressions, comments in the program, understanding error messages. | 12 |
| II | Creating Python Programs: Input and Output Statements, Control statements (Branching, Looping, Conditional Statement, exit function, Difference between break, continue and pass.) Function: Defining a function, calling a function, Types of functions, Function Arguments, Anonymous functions, Global and local variables | 12 |
| III | Strings and text files: manipulating files and directories, os and sys modules; text files: reading/writing text and numbers from/to a file; creating and reading a formatted file (csv or tab-separated). String manipulations: subscript operator, indexing, slicing a string; strings and number system: converting strings to numbers and vice- versa. Binary, Octal, Hexadecimal numbers. | 12 |

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| IV. | Lists, Tuples, and Dictionaries; Basic list Operators, replacing, inserting, removing an element, searching and sorting lists, Accessing tuples, Operations, Working, Functions and Methods, dictionary literals, adding and removing keys, accessing and replacing values, Traversing Dictionaries. | 12 |
| V. | Exception Handling: Exception, Exception Handling, except clause, try, finally, clause, User defined exceptions. Python Libraries: Exploring python libraries like Panda, Numpy, TensorFlow, Scikit-Learn, Keras, PyTorch, SciPy etc. | 12 |
| Keywords: List, Tuple, Dictionary, Panda, Numpy, TensorFlow, Scikit-Learn, Keras, PyTorch, SciPy. | | |

Part C -Learning Resources

Text Books, Reference Books, Other Resources

Suggested Readings:

1. T. Budd, Exploring Python, TMH, 1st Ed, 2011
2. Allen Downey, Jeffrey Elkner, Chris Meyers, How to think like a computer scientist: Learning with Pyth, Freely available online. 2012
3. Luca Massaron John Paul Mueller, Python for Data Science For Dummies, Wiley, 2ed, 2019
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2. File Handling
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3. NumPy
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4. Pandas
<https://www.w3schools.com/python/pandas/default.asp>
5. SciPy
<https://www.w3schools.com/python/scipy/index.php>
6. Django
<https://www.w3schools.com/django/index.php>
7. Matplotlib
https://www.w3schools.com/python/matplotlib_intro.asp
8. Machine Learning
https://www.w3schools.com/python/python_ml_getting_started.asp
9. Python MySQL
https://www.w3schools.com/python/python_mysql_getstarted.asp
10. Topics related Python from SWAYAM/NPTEL
<https://www.youtube.com/channel/UCxulcR5XRauYn37yg-Fh6rA>

<https://www.youtube.com/channel/UCJAgw1niUkaShdmA5aAZdQw>

11. Introduction to Python Programming from Coursera:

<https://www.coursera.org/learn/python-programming-intro>

12. Crash Course on Python:

<https://www.coursera.org/learn/python-crash-course>

13. Python for everybody:

<https://www.coursera.org/specializations/python>

14. Introduction to Scripting in Python Specialization

<https://www.coursera.org/specializations/introduction-scripting-in-python>

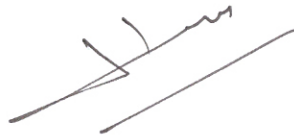
15. Topics related to Python from Tutorials

<https://www.javatpoint.com/python-tutorial>

<http://docs.python.org/3/tutorial/index.html>

<http://interactivepython.org/courselib/static/pythonds>

<http://www.ibiblio.org/g2swap/byteofpython/read/>



Part D: Assessment and Evaluation

Maximum Marks: 50

Declaration

The syllabus of this subject is frame as per the TOR of department of higher education, Chhattisgarh.

- | | | | |
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| Atal Bihari Vajpayee Vishwavidyalaya, Bilaspur | | | |
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| Sant Gahira Guru University Sarguja, Ambikapur | | | |
| 5. Dr. Mamta Singh | - | Member | |
| Asst. Prof. and Head, Sai College, Bhilai | | | |
| Hemchand Yadav Vishwavidyalaya, Durg | | | |
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| Prof. and Head, Batmul Ashram College, Salheana | | | |
| Shaheed Nand Kumar Patel University, Raigarh | | | |
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