

Python & Machine learning

VALUE ADDED COURSE

2020-21

SUMMARY REPORT

Name of the Course: Python & Machine Learning

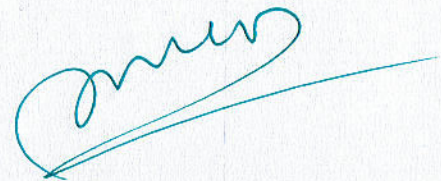
Course Code: VCPML011

Offering Body: SAINTGITS COLLEGE OF APPLIED SCIENCES

No: of students who opted the course: 67

Batch, class and semester to which the course was offered:

Batch	Class	Semester
2019-2022	BCA	3 rd semester



CAMPUS

Kottukulam Hills, Pathamuttom P. O., Kottayam – 686 532, Kerala | Tel: +91 481 2433787 | scas@saintgits.org

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III Floor, Unity Building, K. K. Road, Kottayam – 686 002, Kerala | Tel: +91 481 2584330, 2300365 | mail@saintgits.org

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Duration of the course: 30 Hours

Topics Covered:

Module 1: Introduction to python, Variables, List, Tuple & Set, Help Path, Installation of Python, Data types in Python, Operators in Python: Arithmetic, Logic, Relational, Bitwise Operators, Swap two numbers using Single line, Constants, Mapping & Dictionaries in Python

Module 2: Import statements, Working with Pycharm, Input statements in Python, Control statements: Decision Statements: if, if..else, else..if... ladder, Switch, Iteration: While and for loop, Break & Continue.

Module 3: Arrays in Python, Declaration of Array as List in One Dimension and Two-Dimension Array, Functions in Python-With and without arguments. Read values from users, Recursion in Python, Create and Import Python Libraries.

Module 4: Data Visualization using Pyplot: Line Chart, Pie Chart and Bar Chart. Data Structures in Python: Lists, Stacks and Queues. Create Simple Games: Use Pygame.

Module 5: What is Machine Learning, Applications, steps in ML, Which Technologies are used? Major issues in Data Mining, Data Mining Stages, Selection of target data, Introduce Dataset sources, Need for data preprocessing, Major tasks in preprocessing, Data Cleaning Learning Methods, Supervised Learning, Unsupervised learning in data mining, Clustering

Resource materials, Teaching Methodology:

Power Point Presentation, Colab, Pycharm, Lab Session



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Outcome of the course:

The course gives students the opportunity to become proficient in the Python programming language and provides a solid basis for the latest information on AI.

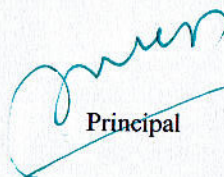
Prepared by,



VAC Coordinator



Approved by,



Principal

Dr. K. K. John
Principal
Saintgits College of Applied Sciences
Kottukulam Hills, Pathamuttom P. O.
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