



Python & Machine learning

VALUE ADDED COURSE

2019-20

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: 60

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

Class	Semester
BCA	3 rd semester

Duration of the course: 30 Hours

Topics Covered:

CAMPUS

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

CORPORATE OFFICE TTOM, KO

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

www.saintgits.org

EARN . GROW

EXCEL

SAINTGITS **COLLEGE OF APPLIED SCIENCES**



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 using input box 0, 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. Arrays: 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

Outcome of the course:

The course enables students to get proficiently in Python programming language and they will get strong foundation to the latest information on Al.

Prepared by,

VAC Coordinator

Approved by

Principal

Dr. K. K. John

Principal

Saintgits College of Applied Sciences Kottukulam Hills, Pathamuttom P.O. Kottayam- 686 532, Kerala

CAMPUS

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

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

WITOM, KO

www.saintgits.org

GROW

EXCEL