



PROGRAM	Master of Business Administration–Business Analytics
SEMESTER	II
COURSE TITLE	Python Programming
COURSE CODE	04MB0214
COURSE CREDITS	2
COURSE DURATION	28

COURSE OUTCOMES:

- Apply knowledge of coding and write programs in Python
- Use python coding for string extraction, manipulation and data handling
- Apply different in-built modules such as math, random and Regular Expressions for computation and analysis purpose

COURSE CONTENTS:

Unit No	Unit / Sub Unit	Sessions
I	Introduction to Python Programming: History, Features, Installation of Anaconda platform, The Python Shell , Use of a text editor , Jupyter Notebook, Spyder, Executing Python scripts, Basic Syntax, Variables, Data Types, Operators Conditional Statements, Looping, Control Statements: Conditional Statements: if, elif, else Nested if-else, catching exceptions “try and except” Looping: For, While, Nested loops.	10
II	File Handling: Opening files, Reading files, Searching through a file, Writing files String Manipulation: Accessing Strings, Basic Operations, String Slices, looping and counting, String Methods, Parsing strings Lists: Introduction, Accessing Lists, Operations, Working with Lists, Functions and Methods Dictionaries: Introduction, Accessing values in Dictionaries, Working with Dictionaries, Properties, Functions Tuples: Introduction, Accessing tuples, Operations, Working with Tuples, Functions and Methods	10
III	Functions: Built-in functions, Defining a function, Calling a function, Function Arguments Modules: Importing a Module, Math Module, Random Module, Regular Expression Module Regular Expressions (RE): Character matching using RE, Extracting data using RE	8

EVALUATION:

The students will be evaluated on a continuous basis and broadly follow the scheme given below:

	Component	Weightage
A	Continuous Evaluation Component (Assignments / Presentations/ Quizzes / Class Participation/ etc.)	20% (C.E.C.)
B	Internal Assessment (MCQ)	30% (I.A.)
C	End-Semester Practical Examination	50% (External Assessment)

SUGGESTED READINGS:
Text Books:

Sr. No	Author/s	Name of the Book	Publisher	Edition and Year
T-01	Mark Summerfield	Programming in Python 3 (A Complete Introduction to the Python Language)	Addison-Wesley	1st Edition, 2017
T-02	Charles R Severance	Python for Everybody	Creative Commons (creativecommons.org)	2 nd Edition, 2016

Reference Books:

Sr. No	Author/s	Name of the Book	Publisher	Edition and Year
R-01	Martin C. Brown	The Complete Reference Python	McGraw Hill	1st Edition, 2018.
R-02	Wes McKinney	Python for Data Analysis	O'Reilly Media, Inc.,	2nd Edition, 2017.
R-03	Nischay Kumar Hegde	Python Programming Fundamentals	Educreation	1st Edition, 2018.