



PROGRAM	Master of Business Administration
SEMESTER	2
COURSE TITLE	Programming And Coding
COURSE CODE	04MB0210
COURSE CREDITS	02
COURSE DURATION	28 Hrs (28 Sessions of 60 Minutes each)

COURSE OUTCOMES:

- ❖ Ability to devise a solution to a problem in various dimensions.
- ❖ Ability to express a solution in algorithmic and graphical forms.
- ❖ Ability to analyze and implement solutions using programming in C and Python language.

COURSE CONTENTS:

Unit No	Unit / Sub Unit	Sessions
I	Introduction of Programming & Logic development <ul style="list-style-type: none">● Concept of programming language and its futures● Introduction of Algorithms with its looping features.● Concept of flowchart with its standard symbols● Overview about Programming C language with its features and applications● Introduction of C program structures / sections.● Concept of Tokens, Keywords, Identifiers, variable & Concepts, Data types● Overview of various operators & I/O statements of Programming C.● Control structure statements of C: If condition and looping structure	10
II	Python Numpy library <ul style="list-style-type: none">● Introduction of Python Programming language and its features,● Installation steps & overview of IDE of Python.● Array attributes, array creation routines, array from existing data, Array from ranges,● Concept of indexing, slicing, binary operators,● Overview of histogram with matplotlib.	09
III	Python Pandas library. <ul style="list-style-type: none">● Library Installation procedure● Introduction to Series, data frame and pane,● Concept of Reindexing and sorting● Working with text data,● Introduction of Statistical functions, aggregations,● Categorical data and visualization.	09



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.)	0% (C.E.C.)
B	Internal Assessment	50% (I.A.)
C	End-Semester Examination (Practical/Viva)	50% (External Assessment)

SUGGESTED READINGS:

Text Books:

Sr. No	Author/s	Name of the Book	Publisher	Edition & Year
T-01	E Balagurusamy	Programming in ANSI C	Tata McGraw Hill	7 th Edition
T-02	Barry, Paul, Shroff	Head First Python: a brain friendly guide	Shroff Publishers & Distributors Pvt. Ltd.	2 nd Edition.

Reference Books:

Sr. No	Author/s	Name of the Book	Publisher	Edition & Year
R-01	Herbert Schildt,	The complete Reference,	Tata McGraw Hill	11 th Edition
R-02	Hunt, John	A Beginners Guide to Python 3 Programming	Springer	2019

Online Web References:

- 1) www.tutorialspoint.com/cprogramming (Unit - 1)
- 2) www.tutorialspoint.com/numpy (Unit 2)
- 3) www.tutorialspoint.com/pandas (Unit 3)