MARRI LAXMAN REDDY
INSTITUTE OF TECHNOLOGY AND MANAGEMENT
(AN AUTONOMOUS INSTITUTION)
(Approved by AICTE, New Delhi & Affiliated to JNTUH, Hyderabad)
Accredited by NAAC with 'A' Grade & Recognized Under Section 2(f) & 12(B) of the UGC act,1956

MLRS
EMPOWERING THROUGH INNOVATIONS

COURSE CONTENT

PYTHON PROGRAMMING

II Semester: MBA

Course Code	Category	Hours/Week			Credits	Maximum Marks		
		L	T	P	C	CIE	SEE	Total
25MB015B	**CORE**	3	0	-	3	40	60	100

Contact Classes:45	Tutorial Classes: Nil	Practical Classes: Nil	Total Classes: 45

Prerequisite: Basic knowledge of computers and internet fundamentals

COURSE OVERVIEW:

This course provides an understanding of the concepts, evolution, and business environment of electronic commerce. It explains various e-commerce business models, digital infrastructure, and payment systems used in the digital economy. The course covers logistics, supply chain management, and fintech innovations supporting online business operations. It also focuses on e-marketing strategies, social commerce, and opportunities in rural and emerging markets. Government initiatives and digital transformation in India are discussed to understand the growth of e-commerce. The course further introduces legal and regulatory aspects to enable informed and responsible digital business decision-making.

COURSE OBJECTIVES:

- To Handle Strings and Files in Python.
- To Understand Lists Dictionaries and Regular expressions in Python.
- To Understand FILES, Multithread programming in Python.
- To Understand GUI in Python.
- To develop Python programs with conditionals and loops.

COURSE OUTCOMES: After Completion of the course, students should be able to

1. Examine Python syntax and semantics and be fluent in the use of Python flow control and functions.
2. Demonstrate proficiency in handling Strings and File Systems.
3. Create, run and manipulate Python Programs using core data structures like Lists, Dictionaries.
4. Develop programs using graphical user interface.
5. Decompose a Python program into functions.

UNIT–IPYTHONBASICS, PYTHON OBJECTS

Standard Types, Built-in Types, Internal Types, Standard Type Operators, Standard Type Built-in Functions, Categorizing the Standard Types, Unsupported Types.

Python Numbers: Introduction to Numbers, Integers, Floating Point Real Numbers, Complex Numbers, Operators, Built-in Functions**.**

UNIT–IICONDITIONALS ANDLOOPS

if,else,elif,for,while,break,continue,pass,Listcomprehensions,Generatorexpressions.**Sequences:**Strings Lists, and Tuples- Built-in Functions, Special features. Mapping and Set Types: Dictionaries, Sets- Built-in Functions.

UNIT-IIIFILESANDINPUT/OUTPUT

File Objects, File Built-in Functions, File Built-in Methods, File Built-in Attributes, Standard Files, Command-lineArguments,FileSystem,FileExecution,PersistentStorage   Modules,RelatedModules.
Exceptions: Exceptions in Python, Detecting and Handling Exceptions, Context Management, Exceptions as Strings, Raising Exceptions, Assertions, Standard Exceptions,Creating Exceptions, Exceptions and the sys Module.

UNIT-IVFUNCTIONSANDFUNCTIONALPROGRAMMING

Calling Functions, Creating Functions, Passing Functions, Formal Arguments, Variable-Length Arguments, Functional Programming. **Modules-**

UNIT–VMULTITHREADEDPROGRAMMING

Introduction, Threads and Processes, Python Threads, the Global Interpreter Lock,Thread Module, Threading Module.

GUI Programming: Introduction, Tkinterand Python Programming,BriefTourofOtherGUIs, Related Modules and Other GUIs.

TEXT BOOKS:
1. CorePythonProgramming,WesleyJ.Chun,SecondEdition,Pearson.
2. ThinkPython,AllenDowney,GreenTeaPress
3. IntroductiontoPython,KennethA.Lambert,Cengage
4. PythonProgramming:AModernApproach,VamsiKurama,Pearson
5. LearningPython,MarkLutz,O'Reilly.

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4. LearningPython,MarkLutz,O"Really.

ELECTRONIC RESOURCES:

1. https://www.youtube.com/watch?v=7L7tub-zRIo — *E-Commerce Full Course for Beginners (Explained)*
2. https://www.youtube.com/playlist?list=PLZlA0Gpn_vH_NT5zPVp18nGe_W9LqBEo6 — *E-Commerce Tutorials (UI/UX, Business Models, Digital Marketing)*

MATERIALS ONLINE:

1. Course template
2. Tutorial question bank
3. Tech talk and Concept Video topics
4. Open-ended experiments
5. Definitions and terminology
6. Assignments
7. Model question paper – I
8. Model question paper – II
9. Lecture notes
10. PowerPoint presentation
11. Drishya Siksha Sangrah (DSS) Videos