Course : MBA			
Semester	**Course Code**	***Course Title***	
I		Python	
Type	**Credits**	**Evaluation**	**Marks**
Value added course	3	CES	100

Course Objectives :
1To acquire programming skills in core Python. 2. To acquire Object Oriented Skills in Python 3. To develop the skill of designing Graphical user Interfaces in Python 4. To develop the ability to write database applications in Python

Learning Outcomes :
1To know the concept of functions in Python. 2.Be capable of using basic functions like "if" and different types of loops. 3.Be able to convert data types. 4.To know how to work with lists.

Unit	Contents	Sessions
1	Invoking the Interpreter Argument Passing Interactive Mode	3
2	Using the Python Interpreter Invoking the Interpreter Argument Passing Interactive Mode The Interpreter and Its Environment Error Handling Executable Python Scripts The Interactive Startup File	3
3	An Informal Introduction to Python Using Python as a Calculator Numbers Strings Unicode Strings Lists First Steps Towards Programming	3
4	More Control Flow Tools if Statements for Statements The range() Function break and continue Statements, and else Clauses on Loops pass Statements Defining Functions	6

	More on Defining Functions		
	Default Argument Values		
	Keyword Arguments		
	Arbitrary Argument Lists		
	Lambda Forms		
	Documentation Strings		
5	Data Structures		3
	More on Lists		
	Using Lists as Stacks		
	Using Lists as Queues		
	Functional Programming Tools		
	List Comprehensions		
	The del statement		
	Tuples and Sequences		
	Dictionaries		
	Looping Techniques		
	More on Conditions		
	Comparing Sequences and Other Types		
6	More on Modules	3	
	The Module Search Path		
	"Compiled" Python files		
	Standard Modules		
	The dir() Function		
	Packages		
	Importing * From a Package		
	Intra-package References		
7	Input and Output	3	
	Fancier Output Formatting		
	Reading and Writing Files		
	Methods of File Objects		
	The ‘pickle’ Module		
8	Errors and Exceptions	3	
	Syntax Errors		
	Exceptions		
	Handling Exceptions		
	Raising Exceptions		
	User-defined Exceptions		
	Defining Clean-up Actions		
9	Classes	3	
	Word About Terminology		
	Python Scopes and Name Spaces		
	First Look at Classes		
	Class Definition Syntax		
	Class Objects		
	Instance Objects		
	Method Objects		

	Random Remarks	
	Inheritance	
	Multiple Inheritance3	
	Private Variables	
	Odds and Ends	
	Exceptions as Derived Classes	
10	What Now?	3
	A Interactive Input Editing and History Substitution	
	Line Editing	
	History Substitution	
	Key Bindings	
	Commentary	
	Floating Point Arithmetic: Issues and Limitations	
	Representation Error	

Total **33 hrs**