## E. Lecture Plan:

S 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Topics	Session Objective	Mode of	Corresponding CO	of Corresponding CO Mode of Assessing the Outcome
_	Introduction to Python IDE Make the students environment which Course series to run	Make the students familiarize with the development Lab environment which has been used throughout this Course series to run python code.	Lab	A12132.1	Internal Evaluation Home Assignments External Evaluation
	Variables, Keywords, Identifiers, Literals,	Program to demonstrate how to declare Keywords, Lab Variables, Datatypes, and Comments in python.	Lab	AI2132.1	Internal Evaluation Home Assignments
	Operators, Comments and datatype.	Program to demonstrate different datatypes and arithmetic operations in python.			External Evaluation
8.	Data structures: List, List Slicing and Set	List, Program to create a list and perform various operations Lab on the list.	Lab	A12132.2	Internal Evaluation Home Assignments
		Program to demonstrate list slicing in python			External Evaluation
		Program to create set and perform various operations on the set.			
نما	Dictionary, Tuple, Graph	Dictionary, Tuple, Graph Program to create Dictionary and perform various Lab operations on the dictionary	Lab	A12132.2	Internal Evaluation Home Assignments
		Program to create Tuple and perform various operations on the Tuple.			External Evaluation
4	Control Statement: If,	Control Statement: If, Program to check whether a number is even or not. Lab	Lab	A12132.1	Internal Evaluation
	If else, else if, nested if	Program to find the largest number among the three input numbers	G		Home Assignments External Evaluation
		Python program to print prime numbers in a given range.	n		
		Python program to check whether a number is an Armstrong number or not.			
			-		Total Carlos
5-6	For loop, while loop, do while, Break, Continue.	For loop, while loop, do Python program to construct various ** patterns while, Break, Continue. Python program to find factorial of a number provided by user	er	A12132.1	Home Assignments External Evaluation
		Program to find sum of natural numbers up to nth term	th		
		Program to display the Fibonacci sequence up to nth term	Ю		
		Python program to demonstrate break and continue	ue	1 02 1 01 1	Internal Evaluation
7	Functions	Python program to make a Simple Calculator using Lab	ng Lab	ALZ 132.1	Home Assignments
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			Build a text editor using tkinter		
External Evaluation			Buid a Calculator using tkinter		
Internal Evaluation	AI2132.4	Lab	Build a temperature converter using tkinter	Python GUI	12
External Evaluation			(	(	
Home Assignments			using sockets.	Programming	
Internal Evaluation	AI2132.4	Lab	Web Write a simple client server program in python Lab	Networking and	11
External Evaluation			handling)		
Home Assignments					
Internal Evaluation	AI2132.4	Lab	Ty Python program to demonstrate the use of various Lab	The Python Library	10
			multiple inheritance.		
External Evaluation			Python program to demonstrate the concept of	Inheritance.	
Home Assignments			Multiple multilevel inheritance.	Inheritance, Mu	
Internal Evaluation	AI2132.3	Lab	Multilevel Python program to demonstrate the concept of Lab	Inheritance, Mult	9
External Evaluation				Constructors.	
Home Assignments			Class, and object.	Concepts, Object, Class, and object	
Internal Evaluation	AI2132.3	Lab	OOPs Python program to demonstrate the concept of class Lab	Python OOPs:	∞
			term using recursion		
			Python program to print Fibonacci series up to nth		
			recursion		
			Python program to print factorial of a number using		
			given numbers		
External Evaluation			Python program to print LCM and HCF for the		

## G. Course Articulation Matrix: (Mapping of COs with POs)

AI 2132.3	AI 2132.2		AI 2132.1		СО	
Illustrate the concept of object-oriented programming using python.	and data structures.	of Python programming	Demonstrate basic programming skills		STATEMENT	
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				PO11		
				PO8 PO9 PO10 PO11 PO12 PSO PSO PSO 1 2 3		
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	-	-	-	PSO 2	SPECIFIC OUTCOMES	CORRELATION
				PSO 3	ES	TON