

ANNUAL PEDAGOGICAL PLAN (XII , Computer Science)

S.no.	What are the problems	Compilation of problems	Categorisation of Problems (Subjective & Behavioural)
1	Students are making syntax error like: Closing quotes ,brackets and declaration of variable and define the list tuple and dictionary.	Recalling of standard structures used for syntaxes of statements Declaration the list tuple and dictionary and perform various function on the same	Subjective :- Few students are not able to use proper syntax and forget to close quotes, comma ,brackets and indentation.
2	For Creating list in the programming: using brackets and indentation issue.		Subjective: Student are not able to use appropriate declaration of list tuple and dictionary and performing the function
3	students are facing problem in loop: String in Python: different function perform in the python	Logical approach towards implementation of Programs	Subjective:Usage of range function and Reverse FOR LOOP using negative step value. Intialization, increment of list and in String, list tuple and dictionary
4	students are not able to take declare list and tuple and dictionary		Subjective: Usage of string, list, tuple and dictionary according to the given problem statement.
5	Difficulty list tuple and dictionary		Subjective: Few students found syntax of dictionary is difficult than string.
6	Prediction of output of program was a challenge		Subjective:Student were not able to predict the output of the program.
7	Lack of interest in writing skills because of which they were not able to ellobrate the answers.	Writing Skills	BEHAVIOURAL: Students do not write content according to the questions.

KPI NO.	KPI NAME	KPI DEFINITION	WHERE ARE WE NOW? (scale & description)	KPI GOAL	KPI LIMIT	WHAT WE NEED TO DO ?	HOW WILL IT BE ACHIEVED	KPI MEASUREMENT	REVIEW	KPI REPORTING	KPI ACHIEVEMENT	KPI IMPROVEMENT
1	Developing Logical approach to understanding of programming concepts and improvement in programming practice	Standard structures to be followed in using syntaxes in sequential and conditional programming T1 L1-SP1,SP3	40% - Students could use correct syntax while writing programs.	50%	-2%	Clarify the usage of correct syntax while writing programs	Lab Activity : Writing small programs in copy and then execute MCQ based Questions	Practice sheet relate to the topic (sequential programs)	After assessment of Practice sheet	After assessment		
2	Developing Logical approach to understanding of String, List, Tuple and Dictiona	students are not able to take decision on conditional statement like if and elif	45%- Students could use String to write programs with List Tuple statement based on	50%	-2%	Giving clarity of the structure to be used according to given conditional	Practicing more problem statement of list tuple dictionary lab activity.(adding two list. Search	Assignment and Lab activities.	After correction of assignment and assessment lab activities.	After Assesment		

	ry and improve ment in program ming practice	T1 L1-SP4,SP6 ,SP7	multiple conditio ns. And iteration program s			proble m statem ents.	elements in the list)					
3	Developi ng Logical approach to understa nding of looping statemen t and improve ment in program ming practice	students are facing problem in loop: Lit tuple and dictiona ry Initializ ation of list . T1 L1-SP5	45%- Students could use while to write program s with for and whilestat ement based on multiple conditio ns. And iteration program s	50 %	-2%	Giving clarity of the loopin g to be used accord ing to given conditi onal proble m statem ents.	Practicin g more problem statemen t of looping statemen t through lab activity.(i nsert key and value in dictionar y.)	Assignmen t and Lab activities.	After correc tion of assign ment and assess ment lab activiti es.	After Assesse mnet		

Class – XII

Lesson Plan

Subject: Computer Science

Topic: Python Revision Tour II

Brief Description of the lesson:

A program's Python Revision Tour II is the order in which the program's code executes. The Python Revision Tour I of a Python program is regulated by sequence statement, conditional statements, and loops. This section covers the Jump Statement, Break statement, Raising and handling exceptions also affects control flow

I - Specific Objectives:

SP1: **KPI 1** To make students understand string manipulation in Python and why it is useful in Python. (U)

SP2: **KPI 3** To make students learn about List. (U)

SP3: **KPI 1** To make students understand the Tuple in the python. (K)

SP4: **KPI 2** To enable students to write small programs using python with List tuple and dictionary. (A)

SP5: **KPI 3** To make students understand string manipulation. (U)

SP6: **KPI 2** To make students to write programs using string list tuple. (A)

SP7: **KPI 2** To make students to understand importance of Dictionary and string. (U)

II - Behavioral Objectives:

B1: To develop the understanding about the importance of string manipulation structure among students systematic and step-by-step approach. (U)

B2: To make students to understand the problem related List tuple and dictionary and to get the solution in better way. (U)

B3: To make students to understand how to solve the problem based on multiple condition. (U)

B4: To enable students to develop simple program related to loop, conditional structure. (U)

Process / Activities:

Activity (to introduce the lesson):

ACT1: write a program with output on the screen.

ACT2: Explain with program (loop and conditional structure)

ACT3: Program to create string.

ACT4: Program to print element of list.

ACT5: Program to find addition of two list

Activity (to support learning):

ACT6: Program to perform all the basic programs of String Manipulation.

ACT7: Programs for conversions: print dictionary

ACT8: Program to find maximum of List.

ACT9: Programs to check average of list

ACT10: Program to check whether the number is available in the list or not

Activity / Assignment (to assess learning):

A1: Practice sheet related to string programs (marks allotted).

A2: Practice sheet related to list programs (Marks will be allotted}

A2: Assignment relate to tuple (marks will be allotted).

A3: Assignment related to dictionary

Digital content to be used

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Expected Learning Outcomes

Student will:

1. Be able to understand features of string manipulation. (U)
2. Learn about store multiple value in the variable . (U)
3. Be able to understand the programming concepts of python. (U)
4. Be able to write small programs using python.(A)
5. Be able to understand list tuple and dictionary statements. (U)

Behavioral Outcomes:

Student will:

- Be able to develop systematic and step-by-step approach. (U)
 - Be able to understand the problem and to get the solution in better way. (U)
 - Be able understand how to solve the problem based on multiple condition. (U)
 - Enable to take decision depending on the outcomes. (U)
- **Placement of objective, Instructional Activities and Assessment**

Topic: Python Programming					
Knowledge	Understanding	Application	Analysis	Synthesis	Evaluation
3	SP1	SP4 ,SP6	B4		
	SP2	ACT1,ACT2, ACT 3,ACT 4			
	SP5				
	SP7				