DEPARTMENT OF COMPUTER APPLICATIONS NATIONAL INSTITUTE OF TECHNOLOGY, TIRUCHIRAPPALLI

Name of the		AN - PARTI			
programme and specialization	Master of Computer Applications				
Course Title	Problem Solving Lab using Python				
Course Code	CA701 No. of Credits 2				
Course Code of Pre- requisite subject(s)	NIL				
Session	July 2022	Section (if, applicable)	. А		
Name of Faculty	J. Tulasiram (Research Scholar)	Department	Computer Applications		
Email	405120007@nitt.edu	Telephone No.			
Name of PAC Chairman	1	eddy			
E-mail	usreddy@nitt.edu	Telephone No.	0431-2503746		
Course Type	Core course				
Exercises for learning bar Python.	asic features of Python ar	nd exercises to impler	ment various applications ir		
Exercises for learning bath Python. COURSE OBJECTIVE(STATE) Acquire programming skacquire Python Py	asic features of Python ar	bject-oriented prograr	nming skills in Python.		
Exercises for learning bath Python. COURSE OBJECTIVE(STATE STATE	asic features of Python ar S) cills in core Python and Oluming skills to apply in Da	bject-oriented prograr	nming skills in Python.		
COURSE OBJECTIVE(: Acquire programming sk	asic features of Python ar S) cills in core Python and Oluming skills to apply in Da	bject-oriented prograr	Learning (ML), Artificial Aligned Programme		
Exercises for learning bath Python. COURSE OBJECTIVE(STATE ACQUIRE Programming skale) Acquire Python programming Intelligence (AI) etc. COURSE OUTCOMES Course Outcomes After successful complexity	asic features of Python ar S) cills in core Python and Oluming skills to apply in Da	bject-oriented prograr ta Science, Machine	nming skills in Python. Learning (ML), Artificial Aligned Programme		

COURSE PLAN - PART II

COURSE OVERVIEW

This course concentrates on basics of Python programming and Data science applications. This course allows the students to understand practically in implementation of functional programming and Data science applications.

COURSE TEACHING AND LEARNING ACTIVITIES

S. No.	Week/ Contact Hours	Topic	Mode of Delivery	
_		Introduction to IDE , Anaconda, Jupyter notebook and PyCharm and demo programs	Offline	
2	Week 2 (3 Hrs)	Introduction to operators in Python Programming	-do-	
3	Week 3 (3 Hrs)	Exploring the Control Structures	-do-	
4	Week 4 (3 Hrs)	Working with List and examples	-do-	
5	Week 5 (3 Hrs)	Exploring the concepts on Tuples with Example programs	-do-	
6	Week 6 (3 Hrs)	Exploring the concepts on SET with Example programs	-do-	
7	Week 7 (3 Hrs)	Exploring the concepts on Dictionaries with Example programs	-do-	
8	Week 8 (3 Hrs)	Performing different operations with Strings	-do-	
9	Week 9 (3 Hrs)	Exploring the functions concepts and Recursion	-do-	
10	Week 10 (3 Hrs)	Introduction to Classes and objects	-do-	
11	Week 11 (3 Hrs)	Working with File handling and Error Handling exceptions	-do-	
12	Week 12 (3 Hrs)	Working on Data Science Libraries with Pandas and Numpy	-do-	

COURSE ASSESSMENT METHODS

S. No.	Mode of Assessment	Week/Date	Duration	% Weightage
 Lab Activities Evaluation-I 	Lab Activities	Periodic		30
	Evaluation-I 6 th Week		120 Minutes	20
3	Evaluation-II	10 th week	120 Minutes	20
СРА	Compensation Assessment*	As per the academic schedule	120 Minutes	
4	Final Assessment	As per the academic schedule	120 Minutes	30
6	100			

COURSE EXIT SURVEY (mention the ways in which the feedback about the course shall be assessed)

The students through the class representative may give their feedback at any time to the course coordinator which will be duly addressed.

The students may give their feedback during class committee meetings.

COURSE POLICY (including compensation assessment to be specified)

MODE OF CORRESPONDENCE

By Email: 405120007@nitt.edu

COMPENSATION ASSESSMENT POLICY

The compensation assessment will be conducted for absentees in assessments (other than final assessment) only after the submission of medical or On-duty certificates signed by the competent authority.

ATTENDANCE POLICY (A uniform attendance policy as specified below shall be followed)

- At least 75% attendance in each course is mandatory.
- > A maximum of 10% shall be allowed under On Duty (OD) category.
- Students with less than 65% of attendance shall be prevented from writing the final assessment and shall be awarded 'V' grade.

ACADEMIC DISHONESTY & PLAGIARISM

> Possessing a mobile phone, carrying bits of paper, talking to other students, copying

from others during an assessment will be treated as punishable dishonesty.

- > Zero mark to be awarded for the offenders. For copying from another student, both students get the same penalty of zero mark.
- > The departmental disciplinary committee including the course faculty member, PAC chairperson and the HoD, as members shall verify the facts of the malpractice and award the punishment if the student is found guilty. The report shall be submitted to the Academic office.

The above policy against academic dishonesty shall be applicable for all the programmes.

ADDITIONAL INFORMATION

NIL

FOR APPROVAL

Course Faculty 2 - Shulf CC-Chairperson