















K S School of Engineering and Management, Bangalore-560109
Department of Electronics and Communication Engineering
Teaching and Learning

Pedagogy Report

Academic Year	2023-24 (Even)
Name of the Faculty	Mr. Sanjay B. Nayak /Ms. Bhargavi Sangam
Course Name/ Code	Python Programming / 21EC643
Semester/Section	VI/A&B
Activity Name	Programming Activity (Read Comprehend Implement Demonstrate) (RCID)
Topic Covered	Python Programming Concepts
Date	10/07/2024
No. of Participants	115
Objectives/Goals	<ul style="list-style-type: none">To improve programming skills of the studentsTo enhance self-learning skills of the students
Infrastructure /Facilities	Laptop and Projector
Appropriate Method/Instructional materials/ Exam Questions The subject was included as professional elective in university curriculum without laboratory component. Right from beginning the lectures were delivered using laptop and projector. Tools like Anaconda and jupyter notebook were used to explain the concepts and live coding examples were used to clarify the concepts. The students were given a set of problems and asked to write programs. The solutions were discussed in class.	
Relevant PO's	PO1, PO2, PO3, PO5, PO12
Significance of Results/Outcomes	<ul style="list-style-type: none">Students explored tools used for python programmingThey had hands-on experience which helped in understanding the programming conceptsStudents executed the programs and verified the results.
Reflective Critique	<ul style="list-style-type: none">The activity helped the students to understand topics covered in theory and improve their programming skills.
Proofs (Photographs/Videos/Reports/Charts/Models) jupyter 21EC643-Module4  Logout le Edit View Insert Cell Kernel Widgets Help Not Trusted Python 3 (ipykernel) +           Code  <pre>5 self.second = sec 6 def print_time(self): 7 print(self.hour, " : ",self.minute, " : ",self.second) 8 9 #add_time is a pure function. The logic does not take care of carry into min 10 #To simplify it is assumed that there will be no carry generated from seco 11 def add_time(t1,t2): 12 tm = CTime() 13 tm.hour = t1.hour + t2.hour 14 tm.minute = t1.minute + t2.minute</pre>	

```

In [7]: 1 class CPoint:
2         def __init__(self,a=0,b=0):
3             self.x = a
4             self.y = b
5
6         def __str__(self):
7             return "({}, {})".format(self.x,self.y)
8
9         def __add__(self,p):
10            temp = CPoint()
11            temp.x = self.x + p.x
12            temp.y = self.y + p.y
13            return temp
14
15        def __sub__(self,p):

```

Sample programs assigned to students:

Activity Based Learning :

1. Write a program to generate Fibonacci series
2. Write a program to find factorial of a number using function.
3. Write a menu driven program to implement stack using Lists
4. Create a DB using dictionaries containing key as USN and related fields containing Name, gender, Marks1, Marks2 & Marks3 of students. Implement the following functions to perform
 - i) Update Name/gender/marks
 - ii) search for usn and display the relevant fields
 - iii) delete based on search for name
 - iv) generate the report with avg marks more than 70%
5. Write a program to implement search and replace multiple occurrences of a given substring in the main string in a list.
6. Write a function called most_frequent that takes a string and prints the letters in decreasing order of frequency.
7. Write a program that reads a file, display the contents, builds a histogram of the words in the file and print most common words in the file.
8. Write a program that searches a directory and all of its subdirectories, recursively, and returns a list of complete paths for all files with a given suffix.
9. Write python code to extract From: and To: Email Addresses from the given text file using regular expressions. <https://www.py4e.com/code3/mbox.txt>.
10. Consider the sentence "From rjlowe@jupui.edu Fri Jan 4 14:50:18 2008", Write python code to extract email address and time of the day from the given sentence
11. Write a program to read, display and count number of sentences of the given file.
12. Write a program that gets the current date and prints the day of the week.
13. Write a function called print_time that takes two Time objects and prints total time it in the form hour:minute:second.
14. Write a program that takes a birthday as input and prints the user's age and the number of days, hours, minutes and seconds until their next birthday.


Signature of the Course In charge


Signature of the HOD, ECE

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