

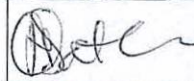






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CIRCULAR

Date: 19.12.2022

All the Academic committee members are informed to attend a meeting scheduled on 23/12/2022 at 11 AM in HOD's office for analyzing curriculum syllabus.

Sl No.	Faculty Name	Designation	Signature
1.	Dr. Sateesh Kumar H C	Professor & Head	
2.	Prof. Agalya P.	Associate Professor	
3.	Prof. Shobha S.	Associate Professor	
4.	Prof. Ravi Shankara M.N.	Associate Professor	
5.	Prof. Shobha I Hugar	Assistant Professor	


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Date: 23/12/2022

MINUTES OF MEETING

With reference to circular dated on 19/12/2022, the academic committee member assembled in HODs office for addressing the following agenda.

Agenda:

- Reviewing the analysis of department curriculum syllabus
- Reviewing the feedback analysis of the academic year 2022-23
- Identifying the gaps
- Action to be taken for the identified gaps.

During the meeting the following members were present

Sl No.	Faculty Name	Designation	Signature
1.	Dr. Sateesh Kumar H C	Professor & Head	
2.	Prof. Agalya P.	Associate Professor	
3.	Prof. Shobha S.	Associate Professor	
4.	Prof. Ravi shankara M.N.	Associate Professor	
5.	Prof. Shobha I Hugar	Assistant Professor	

The following points were discussed in the meeting

1. The committee members analysed and discussed about the feedback of department curriculum syllabus.
2. The members identified the gaps based on the analysis.

The following actions were taken for the gaps that are identified.

Sl. No.	Identified Gap
1	Need to learn Python Programming for effective learning of IOT Lab to implement Programs


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Date: 23/12/2022

To

IQAC Coordinator

Sapthagiri College of Engineering

Bengaluru-560 057

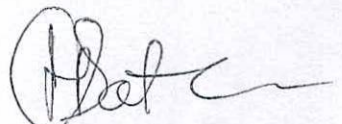
Respected sir/madam,

Subject: Requisition for Approval of conducting certification course

With reference to the Academic committee members meeting held for analyzing department curriculum/syllabus for the academic year 2022 - 23. The committee members identified few gaps after analyzing the syllabus and feedback from the stakeholders. To bridge the gaps identified in the curriculum, the committee members proposed to conduct a certification course on Python coding with Application Projects and solutions from 02.01.2023 to 07.01.2023 for the academic year 2022-23. So, I request you to forward and get the approval from the governing council for the same.

Thanking You,


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*forwarded for GC approval
and satisfaction
h*

IQAC - Co-ordinator
Sapthagiri College of Engineering
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Date: 23/12/2022

To,

Mr. Mohammed Azhar Hussain & Team
AQMENZ AUTOMATION PVT. LTD.
Bangalore

Respected Sir,

Subject: Invitation as a "Resource person" for certification course
and to attend meeting to discuss about the certification program

Department of Electronics and Communication Engineering have planned to conduct a certification course titled "Python coding with Application Projects and solutions" for 3rd semester students from 02.01.2023 to 07.01.2023. In this connection, we are privileged to invite you as a Resource person on the above mentioned topic.

Thanking you for your kind acceptance as resource persons for the course through phone.

Thanking you


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Yours faithfully


HOD

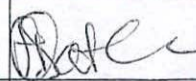


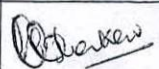



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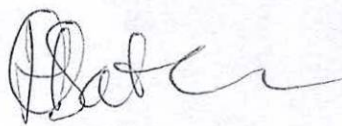
26-12-2022

CIRCULAR

This is to inform that the following Academic Committee members are requested to attend the meeting on 27/12/2022 at 10.30AM in the HODs office to decide the syllabus and the lesson plan for the certification course on Python coding with Application Projects and solutions.

Sl No.	Faculty Name	Designation	Signature
1.	Dr. H C Sateesh Kumar	Professor & Head	
2.	Prof. Agalya P.	Associate Professor	
3.	Prof. Shobha S.	Associate Professor	
4.	Prof. Ravi shankara M.N.	Associate Professor	
5.	Prof. Shobha I Hugar	Assistant Professor	


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27.12.22

Minutes of Meeting

A meeting was conducted on 27th December 2022 in HOD's office to discuss and approve the following about the 6 days Certification Course for 3rd semester ECE Students.

- **Course Title** : Python coding with Application Projects and solutions

Resource Personnel : Mr. Mohammed Azhar Hussain & Team


- **Course Duration & Date**: 6 Days from 02.01.2023 to 07.01.2023

Syllabus:

Introduction to PYTHON as scripting language, Variables expressions and statements, PYTHON IDE installation, Iteration, Strings, Understanding Python data types Lists, Dictionaries, Tuples and Sequence, Classes and objects, Classes and functions, Build own and built in functions, File handling and operations, Image Processing Operations using PYTHON, Importance of PYTHON in Career Perspective, Discussion on Project Ideas.

Syllabus& Schedule of the certification program

Date	Session	Topics
02.01.2023	MS 9AM -12:30PM	Introduction to PYTHON as scripting language, Variables expressions and statements
	AS 1:30PM – 4:30PM	PYTHON IDE installation
03.01.2023	MS 9AM -12:30PM	Iteration, Strings with hands on session
	AS 1:30PM – 4:30PM	Understanding Python data types Lists, Dictionaries, Tuples and Sequence


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04.01.2023	MS 9AM -12:30PM	Classes and objects, Classes and functions, Build own functions and built in.
	AS 1:30PM - 4:30PM	Hands on session on classes and methods
05.01.2023	MS 9AM -12:30PM	File handling and operations using PYTHON
	AS 1:30PM - 4:30PM	Image Processing Operations using PYTHON, Hands on session
06.01.2023	MS 9AM -12:30PM	Case studies in image processing applications using PYTHON
	AS 1:30PM - 4:30PM	Importance of PYTHON in Career Perspective
07.01.2023	10AM - 10:45AM	Discussion on Project Ideas
	11AM - 12PM	Test

The following members were present in the meeting and the syllabus and lesson plan for the certification program has been decided.

Sl No.	Faculty Name	Designation	Signature
1.	Dr. H C Sateesh Kumar	Professor & Head	
2.	Prof. Agalya P.	Associate Professor	
3.	Prof. Shobha S.	Associate Professor	
4.	Prof. Ravi shankara M.N.	Associate Professor	
5.	Prof. Shobha I Hugar	Assistant Professor	

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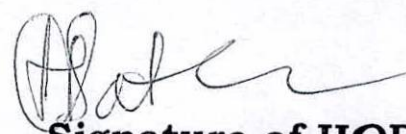
27.12.22

NOTICE

As a part of programming skill development Department of Electronics and Communication Engineering is conducting Five days Certification Course on "Python coding with Application Projects and solutions" from 2nd January-2023 to 7th January -2023.

All 3rd semester ECE students enrolled for the course are informed to attend the course compulsorily.


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Signature of HOD



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Enrollment List for the certification course on Python coding with Application Projects and solutions from 02/01/23 to 07/01/23

Sl. No.	USN	NAME
1.	1SG20EC040	HARSHAVARDHAN A N
2.	1SG21EC001	ABHIJITH SAI CHINNI
3.	1SG21EC002	ABHILASH G YADAV
4.	1SG21EC003	ABHISHEK S K
5.	1SG21EC004	ADITHYA S
6.	1SG21EC005	ADITYA RANJAN BISWAL
7.	1SG21EC006	AISHWARYA K M
8.	1SG21EC007	AKSHAY S PATIL
9.	1SG21EC008	ANANYA H S
10.	1SG21EC009	ANANYA J A
11.	1SG21EC010	ANKITH D R
12.	1SG21EC011	ANKITH M
13.	1SG21EC012	ANKITHA B
14.	1SG21EC013	ANUSHA R
15.	1SG21EC014	ARPITHA A
16.	1SG21EC015	ASHRITH M L
17.	1SG21EC016	B S NANDAN KISHORE
18.	1SG21EC017	B TARUN
19.	1SG21EC018	BHAGATH S G
20.	1SG21EC019	BHAGYASHREE PATIL
21.	1SG21EC020	BHARGAVI KC
22.	1SG21EC021	BHAVANA B
23.	1SG21EC022	BHAVANA S
24.	1SG21EC023	BHOOMIKA R
25.	1SG21EC024	BHOOMIKA R
26.	1SG21EC025	CHELUVA KUMAR K
27.	1SG21EC026	CHIRANTH H A
28.	1SG21EC027	DAIWIK GOWDA S
29.	1SG21EC028	DARSHAN N
30.	1SG21EC029	DEEPAK R
31.	1SG21EC030	DEVAPPA HUCHANATTI
32.	1SG21EC031	DEVARAJ V
33.	1SG21EC032	DHRUVAKUMAR K
34.	1SG21EC033	G SAI TILAK
35.	1SG21EC034	G SPOORTHY


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37.	1SG21EC036	GAGAN R
38.	1SG21EC037	GURULINGU R
39.	1SG21EC039	HARISH KUMAR M S
40.	1SG21EC040	HARSHITH B J
41.	1SG21EC041	HARSHITH GOWDA D
42.	1SG21EC042	HARSHITH S
43.	1SG21EC043	HARSHITHA G H
44.	1SG21EC044	HARSHITHA N BHAT
45.	1SG21EC045	HEMANTH KUMAR A R
46.	1SG21EC046	HIMALI R
47.	1SG21EC047	ISHA PURNESH
48.	1SG21EC048	JAYANTH V P
49.	1SG21EC049	JEEVITHA R
50.	1SG21EC050	K G AISWARYA DEV
51.	1SG21EC051	K SINDHU
52.	1SG21EC052	KEERTHANA B V
53.	1SG21EC053	KEERTHANA K
54.	1SG21EC054	KRUTHI S
55.	1SG21EC055	KRUTHIK M V
56.	1SG21EC056	KUSHAL S K
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62.	1SG21EC063	MANYA B A
63.	1SG21EC065	MITHUN D
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66.	1SG21EC068	N R LIKITH REDDY
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73.	1SG21EC075	NITHYANANDAN S
74.	1SG21EC076	PAVAN G
75.	1SG21EC077	PEEYUSH C P
76.	1SG21EC078	PRAJWAL G


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78.	1SG21EC080	PRASHANTH V H
79.	1SG21EC081	PREETHI K
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81.	1SG21EC083	PUNEETH R
82.	1SG21EC084	RAGHU C
83.	1SG21EC085	RAJEEV N KAUSHIK
84.	1SG21EC086	RAJESHWARI P NANDEPPAGOUDAR
85.	1SG21EC087	RENUKA PRASAD Y S
86.	1SG21EC088	ROHAN K GOWDA
87.	1SG21EC089	ROHIT N
88.	1SG21EC090	ROHITH N
89.	1SG21EC091	RUCHITHA R
90.	1SG21EC092	RUKHIYA BANU
91.	1SG21EC093	RUPESH L
92.	1SG21EC094	RUTHIK U S
93.	1SG21EC095	SAHANA R
94.	1SG21EC096	SAHANA SHETTY
95.	1SG21EC097	SAMRIDDHI V KHANDELWAL
96.	1SG21EC098	SANJANA
97.	1SG21EC099	SANKETH B M
98.	1SG21EC100	SHALINI C
99.	1SG21EC101	SHREYAS B L
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105.	1SG21EC107	SREEVATSA S
106.	1SG21EC108	SRIVIDHYA K S
107.	1SG21EC109	SRUSHTHI YUVARAJ GHATAGE
108.	1SG21EC110	SUBRAMANYA S KALASANNAVAR
109.	1SG21EC111	SUCHITHRA G
110.	1SG21EC112	SUDEEP H U
111.	1SG21EC113	SUHAIL ULLA KHAN
112.	1SG21EC114	SUHAS HC
113.	1SG21EC115	SUSHRUTA S

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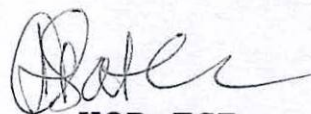
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118.	1SG21EC120	UDAY KUMAR G L
119.	1SG21EC121	V VISHNU
120.	1SG21EC122	VAISHNAVIKA S GANGADKAR
121.	1SG21EC123	VARUN S
122.	1SG21EC124	VEDAGANGE
123.	1SG21EC125	VISHWAS M
124.	1SG21EC126	YUVARAJ I K


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Attendance for the certification course on Python coding with Application Projects and solutions

Sl. No.	USN	NAME						
1.	1SG20EC040	HARSHAVARDHAN A N	1	2	3	3	4	5
2.	1SG21EC001	ABHIJITH SAI CHINNI	10	1	2	3	4	5
3.	1SG21EC002	ABHILASH G YADAV	1	2	3	4	5	6
4.	1SG21EC003	ABHISHEK S K	1	1	2	3	4	5
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33.	1SG21EC032	DHRUVAKUMAR K	1	2	3	4	4	5
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37.	1SG21EC036	GAGAN R	1	2	3	4	5	5
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39.	1SG21EC039	HARISH KUMAR M S	0	1	2	3	4	5
40.	1SG21EC040	HARSHITH B J	1	1	2	3	4	5
41.	1SG21EC041	HARSHITH GOWDA D	1	2	3	4	5	6
42.	1SG21EC042	HARSHITH S	1	2	3	4	5	6
43.	1SG21EC043	HARSHITHA G H	0	1	2	3	4	5
44.	1SG21EC044	HARSHITHA N BHAT	1	2	2	3	4	5
45.	1SG21EC045	HEMANTH KUMAR A R	1	2	2	3	4	5
46.	1SG21EC046	HIMALI R	0	1	2	3	4	5
47.	1SG21EC047	ISHA PURNESH	1	2	3	4	5	6
48.	1SG21EC048	JAYANTH V P	1	2	3	4	5	6
49.	1SG21EC049	JEEVITHA R	0	1	2	3	4	5
50.	1SG21EC050	K G AISWARYA DEV	1	2	3	4	5	5
51.	1SG21EC051	K SINDHU	1	1	2	3	4	5
52.	1SG21EC052	KEERTHANA B V	0	1	2	3	4	5
53.	1SG21EC053	KEERTHANA K	1	2	3	4	5	5
54.	1SG21EC054	KRUTHI S	1	2	3	4	5	5
55.	1SG21EC055	KRUTHIK M V	0	2	3	4	5	6
56.	1SG21EC056	KUSHAL S K	1	2	3	3	4	5
57.	1SG21EC057	LAKSHMI SHREE P	1	2	3	4	5	5
58.	1SG21EC058	LAVANYA B H	1	2	2	3	4	5
59.	1SG21EC059	MADHUGOWDA M H	1	2	3	4	5	6
60.	1SG21EC060	MADHURA K	0	1	2	3	4	5
61.	1SG21EC062	MANOJ GOWDA A M	1	1	2	3	4	5
62.	1SG21EC063	MANYA B A	1	2	3	4	5	6
63.	1SG21EC065	MITHUN D	1	2	3	4	5	5
64.	1SG21EC066	MITHUN P	1	2	2	3	4	5
65.	1SG21EC067	MONISHA V	0	1	2	3	4	5
66.	1SG21EC068	N R LIKITH REDDY	1	2	2	3	4	5
67.	1SG21EC069	N V ABHISHEK	1	2	3	3	4	5
68.	1SG21EC070	NANDAN G	1	2	3	4	5	6
69.	1SG21EC071	NANDINI A	1	2	3	4	5	6
70.	1SG21EC072	NAVEEN B	1	2	3	3	4	5
71.	1SG21EC073	NIKSHITH CHANDRU	1	2	3	4	5	6
72.	1SG21EC074	NITHISH C H	0	1	2	3	4	5
73.	1SG21EC075	NITHYANANDAN S	1	2	3	4	5	6
74.	1SG21EC076	PAVAN G	1	2	3	4	5	6

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75.	1SG21EC077	PEEYUSH C P	1	2	3	4	5	5
76.	1SG21EC078	PRAJWAL G	1	2	3	4	5	6
77.	1SG21EC079	PRAKRUTHI S MALNAD	1	2	3	4	5	5
78.	1SG21EC080	PRASHANTH V H	1	2	3	4	5	6
79.	1SG21EC081	PREETHI K	1	2	3	3	4	5
80.	1SG21EC082	PRUTHVIKA R	1	2	3	4	5	6
81.	1SG21EC083	PUNEETH R	1	2	2	3	4	5
82.	1SG21EC084	RAGHU C	1	2	3	4	5	6
83.	1SG21EC085	RAJEEV N KAUSHIK	1	2	3	4	5	5
84.	1SG21EC086	RAJESHWARI P NANDEPPAGOUDAR	1	2	3	4	5	6
85.	1SG21EC087	RENUKA PRASAD Y S	1	2	3	4	4	5
86.	1SG21EC088	ROHAN K GOWDA	1	2	3	3	4	5
87.	1SG21EC089	ROHIT N	1	2	2	3	4	5
88.	1SG21EC090	ROHITH N	1	2	3	4	5	6
89.	1SG21EC091	RUCHITHA R	1	2	3	4	5	6
90.	1SG21EC092	RUKHIYA BANU	1	2	3	4	5	5
91.	1SG21EC093	RUPESE L	1	2	3	3	4	5
92.	1SG21EC094	RUTHIK U S	0	1	2	3	4	5
93.	1SG21EC095	SAHANA R	1	2	3	4	5	6
94.	1SG21EC096	SAHANA SHETTY	1	2	3	4	5	6
95.	1SG21EC097	SAMRIDDHI V KHANDELWAL	1	2	3	4	5	6
96.	1SG21EC098	SANJANA	0	1	2	3	4	5
97.	1SG21EC099	SANKETH B M	1	2	3	4	5	5
98.	1SG21EC100	SHALINI C	1	2	3	3	4	5
99.	1SG21EC101	SHREYAS B L	1	2	3	4	5	6
100.	1SG21EC102	SHREYAS N	1	2	3	4	5	5
101.	1SG21EC103	SINCHANA	1	2	3	4	5	6
102.	1SG21EC104	SINCHANA A	1	2	3	4	4	6
103.	1SG21EC105	SINCHANA C	1	2	3	3	4	5
104.	1SG21EC106	SPOORTHY R	1	2	3	4	5	6
105.	1SG21EC107	SREEVATSA S	1	2	3	3	4	5
106.	1SG21EC108	SRIVIDHYA K S	1	2	3	4	5	6
107.	1SG21EC109	SRUSHTHI YUVARAJ GHATAGE	1	2	3	4	5	6
108.	1SG21EC110	SUBRAMANYA S KALASANNAVAR	1	2	3	3	4	5
109.	1SG21EC111	SUCHITHRA G	1	2	3	4	5	6
110.	1SG21EC112	SUDEEP H U	1	2	3	4	5	6



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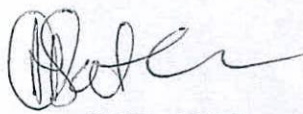
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111.	1SG21EC113	SUHAIL ULLA KHAN	1	2	3	4	5	6
112.	1SG21EC114	SUHAS HC	1	2	3	4	4	5
113.	1SG21EC115	SUSHRUTA S	1	2	3	4	5	6
114.	1SG21EC116	TEJASWINI S S	1	2	2	3	4	5
115.	1SG21EC117	THANUSHREE B A	1	2	3	4	5	6
116.	1SG21EC118	THARUN C	0	1	2	3	4	5
117.	1SG21EC119	THRISHA BAI D	1	2	3	4	5	5
118.	1SG21EC120	UDAY KUMAR G L	1	2	3	3	5	6
119.	1SG21EC121	V VISHNU	1	2	3	3	4	5
120.	1SG21EC122	VAISHNAVIKA S GANGADKAR	1	2	3	4	5	6
121.	1SG21EC123	VARUN S	1	2	3	3	4	5
122.	1SG21EC124	VEDAGANGE	1	2	3	4	5	6
123.	1SG21EC125	VISHWAS M	0	1	2	3	4	5
124.	1SG21EC126	YUVARAJ I K	1	2	3	4	5	6


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HOD, ECE



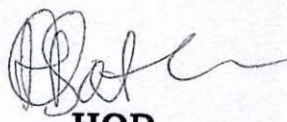
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**6 days Certification Course on "Python coding with
Application Projects and solutions"**

Test Time Table

Sl. No.	DATE	DAY	TIMINGS
1	07.01.23	Saturday	11:00AM – 12:00PM


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**6 days Certification Course on "Python coding with
Application Projects and solutions" Question Paper**

Duration : 60 Minutes

Maximum marks : 25

Date: 07.01.2023

Question No. 1-25 (1M each)

Answer all the Questions:

Q 1 - Which of the following is correct about Python?

- A - Python is a high-level, interpreted, interactive and object-oriented scripting language.
- B - Python is designed to be highly readable.
- C - It uses English keywords frequently where as other languages use punctuation, and it has fewer syntactical constructions than other languages.
- D - All of the above.

Q 2 - Which of the following environment variable for Python tells the Python interpreter where to locate the module files imported into a program?

- A - PYTHONPATH
- B - PYTHONSTARTUP
- C - PYTHONCASEOK
- D - PYTHONHOME

Q 3 - Which of the following environment variable for Python contains the path of an initialization file containing Python source code?

- A - PYTHONPATH
- B - PYTHONSTARTUP
- C - PYTHONCASEOK
- D - PYTHONHOME

Q 4 - Is python a case sensitive language?

- A - True
- B - False

Q 5 - Which of the following data types is not supported in python?

- A - Numbers
- B - String
- C - List
- D - Slice

Q 6 - What is the output of print str[0] if str = 'Hello World!'?

- A - Hello world!
- B - H
- C - ello World!
- D - None of the above


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Q 7 - What is the output of print list[0] if list = ['abcd', 786 , 2.23, 'john', 70.2]?

- A - ['abcd', 786 , 2.23, 'john', 70.2]
- B - abcd
- C - Error
- D - None of the above.

Q 8 - Which of the following is correct about tuples in python?

- A - A tuple is another sequence data type that is similar to the list.
- B - A tuple consists of a number of values separated by commas.
- C - Unlike lists, however, tuples are enclosed within parentheses.
- D - All of the above.

Q 9 - What is the output of print tuple[0] if tuple = 'abcd', 786, 2.23, 'john', 70.2?

- A - 'abcd', 786, 2.23, 'john', 70.2
- B - abcd
- C - Error
- D - None of the above

Q 10 - Which of the following is correct about dictionaries in python?

- A - Python's dictionaries are kind of hash table type.
- B - They work like associative arrays or hashes found in Perl and consist of key-value pairs.
- C - A dictionary key can be almost any Python type, but are usually numbers or strings. Values, on the other hand, can be any arbitrary Python object.
- D - All of the above.

Q 11 - Which of the following function of dictionary gets all the values from the dictionary?

- A - getvalues
- B - value
- C - values
- D - None of the above.


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Q 12 - Which of the following function convert a string to an int in python?

- A - intx[, base]
- B - longx[, base]
- C - floatx
- D - strx

Q 13 - Which of the following function convert an integer to an unicode character in python?

- A - unichrx
- B - ordx
- C - hexx
- D - octx

Q 14 - Which of the following operator in python performs exponential power calculation on operands?

- A - **
- B - //
- C - is
- D - not in

Q 15 - Which of the following operator in python evaluates to true if the variables on either side of the operator point to the same object and false otherwise?

- A - **
- B - //
- C - is
- D - not in

Q 16 - Which of the following statement terminates the loop statement and transfers execution to the statement immediately following the loop?

- A - break
- B - continue
- C - pass
- D - None of the above.

Q 17 - Which of the following function returns a random item from a list, tuple, or string?

- A - choicseq
- B - randrange [start,]stop[, step]
- C - random
- D - seed[x]

Q 18 - Which of the following function sets the integer starting value used in generating random numbers?

- A - choiceseq
- B - randrange [*start*, *stop*[, *step*]
- C - random
- D - seed[*x*]

Q 19 - Which of the following function capitalizes first letter of string?

- A - shufflelst
- B - capitalize
- C - isalnum
- D - isdigit

Q 20 - Which of the following function checks in a string that all characters are numeric?

- A - islower
- B - isnumeric
- C - isspace
- D - istitle

Q 21 - Which of the following function merges elements in a sequence?

- A - isupper
- B - joinseq
- C - lenstring
- D - ljustwidth[, *fillchar*]

Q 22 - Which of the following function returns titlecased version of string?

- A - replaceold, new[, *max*]
- B - strip[*chars*]
- C - swapcase
- D - title

Q 23 - What is the output of L[-2] if L = [1,2,3]?

- A - 1
- B - 2
- C - 3
- D - None of the above



Q 24 - What is the following function returns item from the list with max value?

- A - `cmplist`
- B - `lenlist`
- C - `maxlist`
- D - `minlist`

Q 25 - What is the following function reverses objects of list in place?

- A - `list.reverse`
- B - `list.sort[func]`
- C - `list.popobj = list[- 1]`
- D - `list.removeobj`

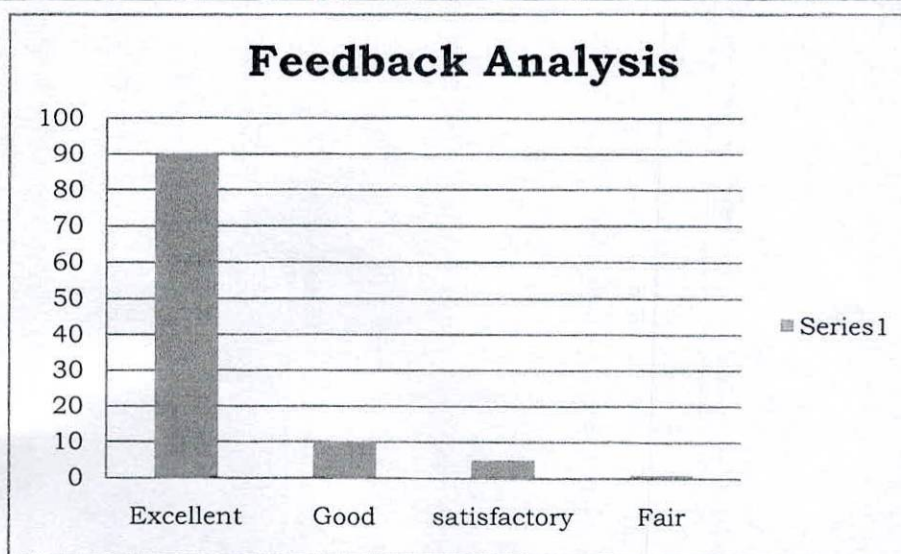

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FEEDBACK ANALYSIS

Certification Program: "Python coding with Application Projects and solutions"

No. of students	Student Feedback (in %)			
	Excellent	Good	satisfactory	Fair
106	90	10	5	1



Analysis Report:

90 % of students were completely happy with the certification program and 10 % of students felt it was a good program and remaining 5 % students were satisfied with the program.

Action Taken:

The Feedback report which was collected from the students and sent to the principal and he would take necessary actions based on the comments and conduct more programs for the benefit of students.


Program Coordinator


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Certification Course Report on Python coding with
Application Projects and solutions

Department of ECE conducted Certificate Course on Python coding with Application Projects and solutions

- **Resource Person:** Mr. Mohammed Azhar Hussain & Team
- **Duration of the course:** 6 days from 02.01.2023 to 07.01.2023
- **Objective of the Course:** The six days course is to make the students to be familiar with the major concepts in python programming which is a main platform for their career in software applications development. Certificate Course can be a vital step to improve the knowledge of students.

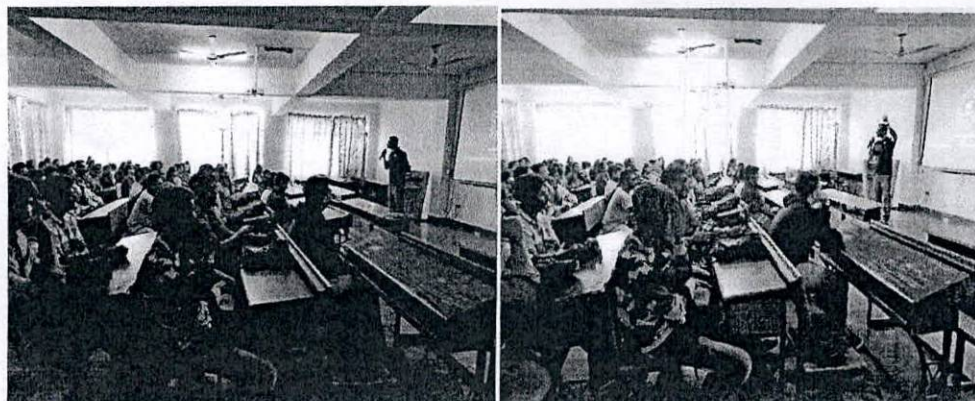
Course Report:

Date	Outcome of the course
02.01.2023	Students have been introduced to PYTHON as scripting language, Variables expressions and statements and PYTHON IDE installation
03.01.2023	Students understood Python data types Lists, Dictionaries, Tuples and Sequence, Iteration, Strings with hands on session
04.01.2023	Students have been introduced to Classes and objects, Classes and functions, Build own functions and built in.
05.01.2023	Students have been introduced to File handling and operations using PYTHON, Hands on session on classes and methods
06.01.2023	Students had a discussion on Case studies in image processing applications using PYTHON
07.01.2023	Importance of PYTHON in Career Perspective, Discussion on Project Ideas, Test


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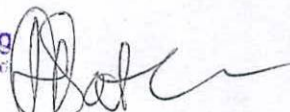
Students attending the course with Resource Person

Conclusion:

Certificate course made them comfortable with the concepts of Python coding in developing application Projects and solutions. Learning style adopted by students, which eventually is developed into a skill of their forte. Through this course, an ecstatic learning background paved way to a positive learning environment in the class where active participation was seen from every end. A sense of satisfaction was also seen from students. Faculty members were also equally benefited with the course. This Course helped the student to improve their knowledge in developing various engineering applications using Python.


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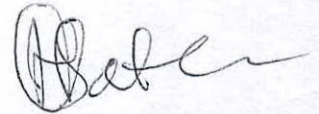
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Action Taken:

Based on the feedback obtained from Students, Faculty and Alumni, the curriculum for the academic year 2022 - 23 has been analysed by department academic committee members and it has been decided to conduct certification course on Python coding with Application Projects and solutions to bridge the gaps identified in the curriculum/syllabus.

In the meeting the committee members decided to choose resource persons from industry for delivering the certification course.


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Six days certification course on

“Python coding with Application Projects and solutions ”

CERTIFICATE

This is to certify that Mr/Ms
has attended the five days certification course on **“Python coding with Application Projects and solutions ”** organized by the Department of Electronics and Communication Engineering , Sapthagiri college of Engineering, Bengaluru from 2nd January to 7th January 2023.

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This is to certify that Mr/Ms **SUCHITHRA. G. (1SG21EC111)**
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This is to certify that Mr/Ms *SINCHANA . A . (1SG21EC104)*
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This is to certify that Mr/Ms PRUTHVIKA R (1SG21EC082)
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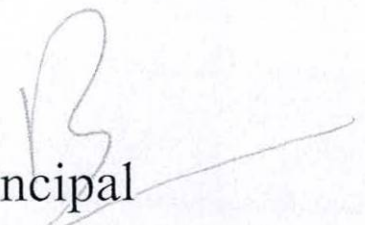
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This is to certify that Mr/Ms **MITHUN . P (1SG21EC066)**
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This is to certify that Mr/Ms **Gagan . H . (1SG21EC035)**
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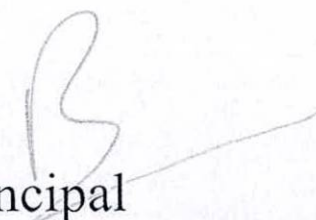
CERTIFICATE

This is to certify that Mr/Ms **DEVARAJ. V. (1SG2IEC031)**
has attended the five days certification course on **"Python coding with Application Projects and solutions"** organized by the Department of Electronics and Communication Engineering, Sapthagiri college of Engineering, Bengaluru from 2nd January to 7th January 2023.

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"Python coding with Application Projects and solutions"

CERTIFICATE

This is to certify that Mr/Ms **BHAVANA.S. (1SG21EC022)**
has attended the five days certification course on **"Python coding with Application Projects and solutions"** organized by the Department of Electronics and Communication Engineering, Sapthagiri college of Engineering, Bengaluru from 2nd January to 7th January 2023.

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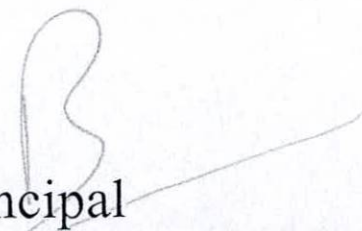
"Python coding with Application Projects and solutions"

CERTIFICATE

This is to certify that Mr/Ms **ANKITH D.R. (15G2IEC010)**
has attended the five days certification course on **"Python coding with Application Projects and solutions"** organized by the Department of Electronics and Communication Engineering, Sapthagiri college of Engineering, Bengaluru from 2nd January to 7th January 2023.

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"Python coding with Application Projects and solutions"

CERTIFICATE

This is to certify that Mr/Ms **ABHISHEK. S.K. (1SG21EC003)**
has attended the five days certification course on **"Python coding with Application Projects and solutions"** organized by the Department of Electronics and Communication Engineering, Sapthagiri college of Engineering, Bengaluru from 2nd January to 7th January 2023.

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