



## AUTONOMOUS

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### DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

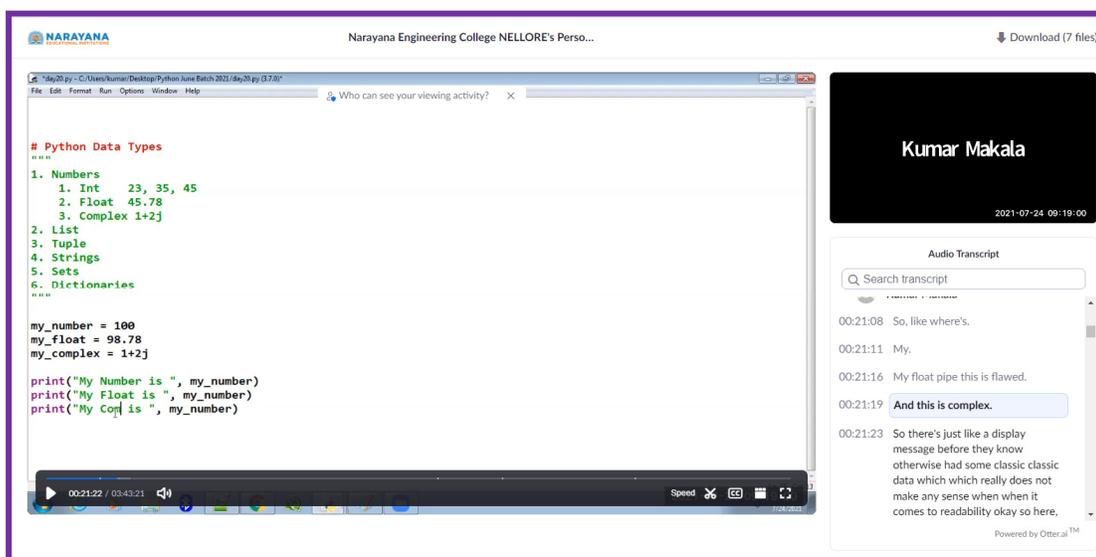
<b>1</b>	Name of the Activity/Event	Guest Lecture on “ Python Programming ”		
<b>2</b>	Date of Activity/Event	16/06/2021 to 29/06/2021		
<b>3</b>	Organized by	Department of Electronics And Communication Engineering		
<b>4</b>	Place of Activity/event	Online		
<b>5</b>	Resource persons / guest / organization	M.Kumar, Software Engineer, KXN IT Solutions, Hyderabad		
<b>6</b>	Type of activity/Event	Guest Lecture		
<b>7</b>	Activity/Event objectives	<ul style="list-style-type: none"> <li>This course aims at providing an opportunity for students to enrich their knowledge and skill in developing various solutions for solving engineering problems in the society.</li> <li>This Python Programming leads students from the basics of writing and running Python scripts to more advanced features such as file operations, regular expressions, working with binary data, and using the extensive functionality of Python modules. Extra emphasis is placed on features unique to Python, such as tuples, array slices, and output formatting.</li> </ul>		
<b>8</b>	Participation	Students	Faculty	Total Participation
		138	-	138
<b>9</b>	General remarks	1. Introduction to Python programming 2. Iterations, Dictionaries, Tuples etc...		
<b>10</b>	Suggested Improvements	Need Hands-on session and more real time examples.		
<b>11</b>	Enclosures	1. Program report with Snapshots 2. Attendance sheet		
<b>12</b>	Signature of Co-ordinator			

The Electronics and Communication Engineering department has organized a **Guest Lecture** on **“Python Programming”** from **16/06/2021 to 29/06/2021**, The Resource person is **Mr. M. Kumar, Software Engineer, KXN IT Solutions, Hyderabad**. The II B.Tech students from the ECE department had attended this Lecture. Total of **138** students attended to this session.

In this session resource person covered the syllabus which was related to their curriculum. To begin with, the various Programming languages and their advantages were discussed **Mr. M. Kumar** emphasized that, in addition to learning the academic curriculum, students should attempt to learn the latest programming languages which are trending in the IT industry.

Subsequently, **Mr. M. Kumar** shared information on the Python Programming Language and its scope. He described the difference between Python and other Programming Languages. He also explained the students on how to get started with Python and define functions, library files available etc.

Later on he discussed some basics which were related to PYTHON programming with respect to syllabus and real time applications.



The screenshot displays a video player interface. On the left, a code editor window shows Python code for data types and variables. On the right, an audio transcript is visible, showing the speaker's words.

```
# Python Data Types
"""
1. Numbers
   1. Int    23, 35, 45
   2. Float  45.78
   3. Complex 1+2j
2. List
3. Tuple
4. Strings
5. Sets
6. Dictionaries
"""

my_number = 100
my_float = 98.78
my_complex = 1+2j

print("My Number is ", my_number)
print("My Float is ", my_number)
print("My Complex is ", my_number)
```

**Kumar Makala**  
2021-07-24 09:19:00

Audio Transcript

Search transcript

00:21:08 So, like where's.

00:21:11 My.

00:21:16 My float pipe this is flawed.

00:21:19 **And this is complex.**

00:21:23 So there's just like a display message before they know otherwise had some classic classic data which which really does not make any sense when when it comes to readability okay so here,

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### *Explaining about Data Types in Python*

Python is a high-level, general-purpose and a very popular programming language. Python programming language (latest Python 3) is being used in web development, Machine Learning applications, along with all cutting edge technology in Software Industry. Python Programming Language is very well suited for Beginners, also for experienced programmers with other programming languages like C++ and Java.

The screenshot displays a video lecture interface. On the left, a class diagram in Paint shows 'class A' with attributes 'a=10' and 'b=20' and a method 'disp()'. An arrow points to 'class B', which inherits from 'class A' and has attributes 'c=40' and 'd=50', and methods 'show()' and 'disp()'. Below the diagram, code snippets show 'obj = B()' and 'obj.disp()'. On the right, an audio transcript window shows a search bar and a list of transcript entries with timestamps, such as '02:33:33 And you can call where bj.' and '02:33:35 dart this will be there are these were originally show words in a live show originally.'

### *Explaining about Classes*

Resource Person later on discussed about string creation, string slicing formation of string, searching and programs on strings.

On next day he discussed about how to create dictionaries, adding elements to dictionary, accessing elements from dictionary

```

Python 3.5.0 Shell
File Edit Shell Debug Options Window Help
Python 3.5.0a1 (v3.5.0a1:5d4b6a57d5fd, Feb 7 2015, 18:15:14) [MSC v.1900 64
bit (AMD64)] on win32
Type "copyright", "credits" or "license()" for more information.
>>> class Test:
        def show(self):
            self.a=10

>>> Obj = Test()
>>> show()
Traceback (most recent call last):
  File "<pyshell#5>", line 1, in <module>
    show()
NameError: name 'show' is not defined
>>> Obj.show()
>>> def show():
        print("hello")

>>> show()
hello
>>>

```

### *Explaining the Sample Program*

```
# Keyword based arguments

def add(a,b,c):
    print("a is ",a)
    print("b is ", b)
    print("c is ", c)

# Kwargs can be passed in any order but o/p still
# remains same
add( 300, a=100, b=200 )
```

```
a is 100
b is 200
c is 300
>>>
===== RESTART: C:/Users/kumar/Desktop/Narayan
a/day1_2.py =====
a is 100
b is 200
c is 300
>>>
===== RESTART: C:/Users/kumar/Desktop/Narayan
a/day1_2.py =====
Traceback (most recent call last):
  File "C:/Users/kumar/Desktop/Narayana/day1_2.py", 1
  line 27, in <module>
    add( a=100, b=200 )
TypeError: add() missing 1 required positional argume
nt: 'c'
>>>
===== RESTART: C:/Users/kumar/Desktop/Narayan
a/day1_2.py =====
Traceback (most recent call last):
  File "C:/Users/kumar/Desktop/Narayana/day1_2.py", 1
  line 27, in <module>
    add( 300, a=100, b=200 )
TypeError: add() got multiple values for argument 'a'
>>>
```

**Kumar Makala**  
2021-07-26 10:45:27

Audio Transcript

Q Search transcript

00:52:05 They got that see ya got multiple values for the.

00:52:09 So this kind of race condition got that yes.

00:52:12 So, which means see.

00:52:14 In the order, we are specifying 300 right so 300 goes to a, and so this takes let's say it takes a but, again, it says a come on hey you're not a I am so I am here my values hundred please take me so that's why it says hey Come on, so add function got

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### ***Explaining about Keyword based Arguments***

Confidentiality he discussed with real time examples and the session was made really interactive by providing an opportunity to suggest a solution to real life scenario with the help of images and videos which were given by the resource person. The session was extremely interesting for the students and they got an opportunity to hear and learn.

**HOD - ECE**