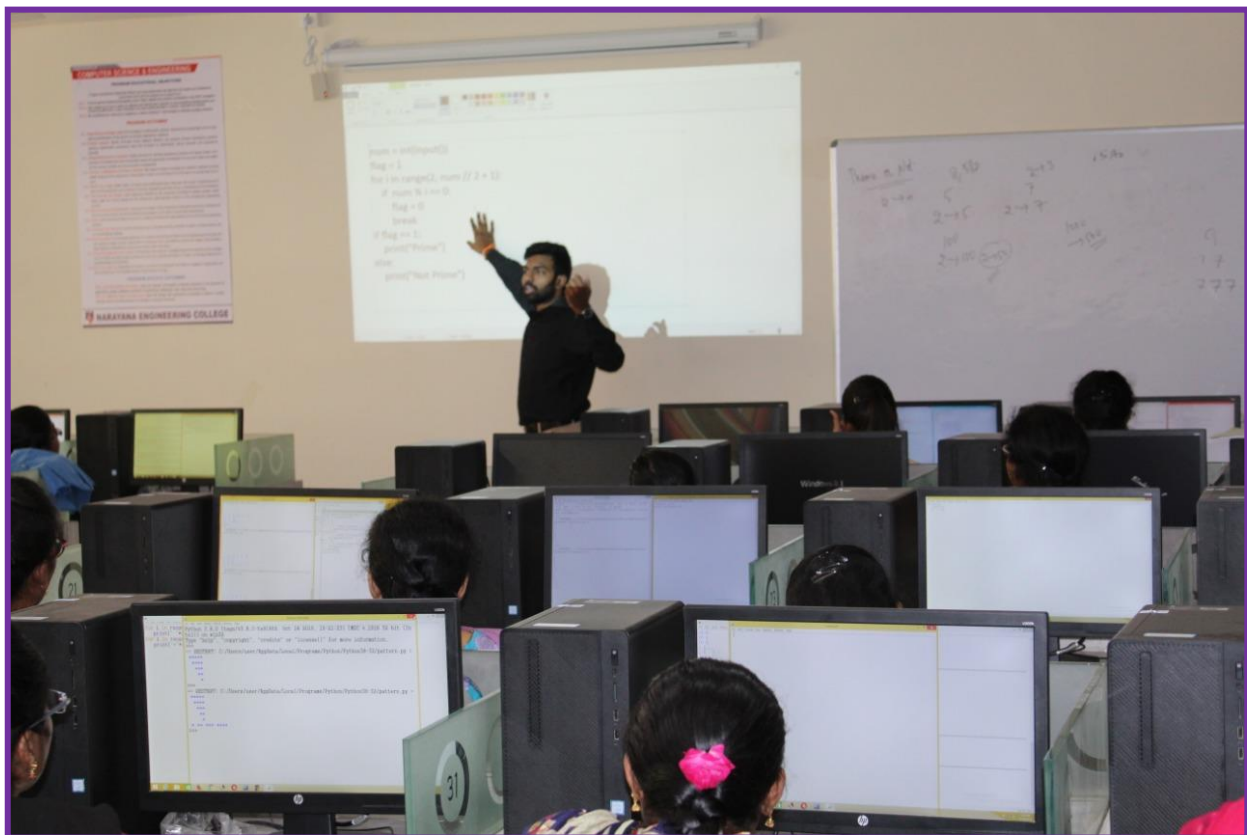


DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

1	Name of the Activity/Event	Value Added course on "PYTHON"		
2	Date of Activity/Event	12/12/2019 to 28/12/2019		
3	Organized by	Department of Electronics And Communication Engineering		
4	Place of Activity/event	Visvesvaraya auditorium		
5	Resource persons / guest / organization	Mr Kushal Deva, Instacks, Hyderabad		
6	Type of activity/Event	Value Added Course		
7	Activity/Event objectives	<p>The objectives of this course are:</p> <ol style="list-style-type: none"> 1. To acquire programming skills in core Python. 2. To acquire Object Oriented Skills in Python 3. To develop the skill of designing Graphical user Interfaces in Python 4. To develop the ability to write database applications in Python Pre-requisites 		
8	Participation	Students	Faculty	Total Participation
		42	-	42
9	General remarks	<ul style="list-style-type: none"> • To understand why Python is a useful scripting language for developers. • To learn how to design and program Python applications. • To learn how to use lists, tuples, and dictionaries in Python programs. • To learn how to identify Python object types. 		
10	Suggested Improvements	Need Hands-on session and more real time examples.		
11	Enclosures	<ol style="list-style-type: none"> 1. Program report with Snapshots 2. Participants List 3. Attendance sheet 4. Certificates 		
12	Signature of Incharge/Convener			

The Electronics and Communication Engineering department has organized a **Value added course** on “PYTHON” from **12th December 2019 to 28th December 2019**. The resource person was **Mr Kushal Deva, Instacks, Hyderabad**. The III B.Tech students from the ECE department have attended this value added course. Around **42 students** of final B.Tech ECE department have participated. The resource person Mr Kushal Deva was an expert in the field of python programming who have delivered all the sessions. He explained very humbly to all the students about the importance of this Python language with real time examples.

Python Programming Value added course was intended for both hardware and software engineers for generating different applications. The Objectives behind the arrangement of this course was to understand why Python is a useful scripting language for engineers, to learn how to design and program Python applications, to learn how to use lists and dictionaries in Python programs. Moreover to learn how to use indexing and slicing to access data in Python programs, to learn how to write loops and decision statements in Python.



Introducing about Python Programming to the students

The important part of this course was to learn how to write functions and pass arguments in Python as well as to learn how to read and write files for image and video processing in Python, as these could come up with some great applications in image processing domain.



The students participated in programming session

The resource person started with the introduction of Python along with programming and coding techniques. Students were taught about basic syntax of interactive mode, script mode programming and python identifiers, reserved words were explained with some simple examples.

In the next week, different variable types like assigning values to variables, how to assign multiple variables, standard data types and python numbers were explained to the students and the doubts which were asked by the students were cleared by the resource person.

In the next sessions, strings, Lists & Tuples, dictionary, date & time, Functions & modules of Python programming i.e., defining a function, calling a function, function arguments and different type of required keywords and keyword arguments were taught to the students.

In the following sessions input/output files, exceptions, classes / objects, generics and regular expressions like math function, search function and replacing functions, CGI programming, multithreading, sending Email, networking and GUI programming were taught to the students along with hands on experience.



Students during the hands on session

At the end of the course student's asked many doubts regarding the importance of Python programming in projects and placements. The resource person had cleared all doubts. Finally feedbacks were also collected from the students.

Finally the resource person gave an overview of various companies working on projects in python domain. He also gave an exposure to the students about the role of python programming in Robotics and Web based applications. The session was interactive and the resource person gave an idea of how to move about in choosing domain after this initial course.