FACULTY OF ENGINEERING & TECHNOLOGY (CO-EDUCATION)
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

A REPORT ON "PYTHON"

1	Name of the Activity/Event	Value Added course on "PYTHON"		
2	Date of Activity/Event	9th July to 26th July 2024		
3	Organized by	Department of Electronics And Communication Engineering		
4	Place of Activity/event	Classroom		
5	Resource person	Dr.Savita Patil, Professor, ECE Department, Faculty of Engineering & Technology (Co-Education)		
6	Type of activity/Event	Value Added Course		
7	Activity/Event objectives	The objectives of this course are: • To acquire programming skills in core Python. • To acquire Object Oriented Skills in Python • Students will be able to develop programs using Python. • Students will be able to work on study activities and implement projectsusing Python • Students will benefit during placement activities and other competitive exams.		
8	Participation	Students	Faculty	Total Participation
		101	-	101
9	General remarks	• 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.		
11	Enclosures	1. Program report with Snapshots 2. Participants List 3. Attendance sheet 4. Certificates		
12	Signature of in charge/Convener			

The **E**lectronics and **C**ommunication **E**ngineering Department has organized a **Value-added course** on "**PYTHON"** from **9th July to 26th July 2024**. The resource person was Dr. Savita Patil, Professor ECE Department, Faculty of Engineering and Technology (Co-Ed), Kalaburagi. The IV B.Tech. students from the ECE department have attended this value-added course.

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 were to understand why Python is a useful scripting language for engineers, to learn how to design and program Python applications, and to learn how to use lists, tuples, and dictionaries in Python programs. Moreover, to learned how to use indexing and slicing to access data in Python programs and how to write loops and decision statements in Python.

The resource person delivering a lecture during the session to the students

Introducing 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 the image processing domain. Around **101 students** of the IV Sem ECE department have participated. The resource person Dr. Savita Patil was an expert in the field of python programming who have delivered all the sessions. She explained very humbly to all the students about the importance of this Python language with real-time examples.

The resource person started with the introduction of Python along with programming and coding techniques. Students were taught about the basic syntax of interactive mode, script mode programming, and Python identifiers, and 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 that were asked by the students were cleared by the resource person.

In the next sessions, strings, Lists & Tuples, dictionaries, 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.

At the concluding part of the course, students' feedback was also collected for the future scope and suggestions towards the course. Students performed some of the Python programs themselves from the handout examples provided to them.