

### VIMAL JYOTHI ENGINEERING COLLEGE JYOTHI NAGAR, CHEMPERI - 670632, KANNUR, KERELA

Affiliated to APJ Abdul Kalom Technological University, Approved by AICTE ISO 9001: 2015 Certified | Accredited by Institution of Engineers (India), NBA, NAAC Pt: 0490 2212240, 2213399 Email: office@vjec.ac.in Website: www.vjec.ac.in

**NAAC Cycle 2** 

Criterion: 1.2.1

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QUEST INNOVATIVE SOLUTION

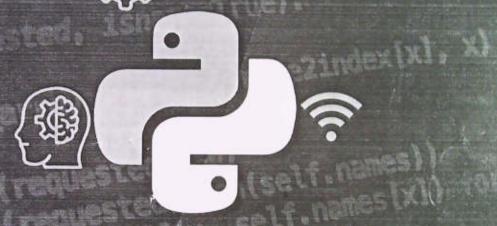
ADD ON Z COURSE

ADEC 401

FUNDAMENTALS

N KOS

PYTHON PROGRAMMING



DATE

10 - 14 MARCH 2023

TIME

09:00 AM - 04:10 PM

VENUE

ADVANCED COMMUNICATION LAB,

PARTICIPANTS

S4 ECE STUDENTS

COORDINATORS

MR. VINOD J THOMAS

MR. MANOJ K C

MS. JERRIN YOMAS

CONVENOR

DR. D ANTO SAHAYA DHAS



Page 2 of 25

## **EVENT PROPOSAL FORM**

1	Event type and Name	Add on course on "Fundamentals in python programming"
2	Date and time	10/03/2023 to 14/03/2023,9.00AM to 4PM
3	Participants/audience	S4 ECE students (2021-25 Batch).
4	Venue	ECE department -Advanced communication engineering lab.
5	Objectives	To understand the fundamentals of Python programming language.
6	Expected outcomes	Students will understand Python fundamentals and they will be able to develop python programs for various applications.
7	Connected POs/PSOs	PO1, PO3,PO5, PO12
8	Resource requirements	Course fee - Rs.30000 + 18% GST (Approved by the management)
9	Any other Relevant Information	Resource Person/team – Quest Innovative solutions Kannur. Accommodation is required for the resource team (2 members)
10	Responsible Persons	Mr. Vinod J Thomas ,ASP, ECE Mr. Manoj K C ,ASP, ECE Ms. Jerrin Yomas , ASP, ECE
11	Department	Electronics & Communication Engineering Department, VJEC.

Proposal prepared by Vinod J Thomas Assoc. Prof, ECE

Ont

Proposal Recommended by Dr. Anto Sahaya Dhas Professor & Head, ECE Dept. Report

## VIMAL JYOTHI ENGINEERING COLLEGE, CHEMPERI DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

S4 ECE (2021-25BATCH)

#### ADD-ON COURSE REPORT

### TITLE: FUNDAMENTALS IN PYTHON PROGRAMMING

#### CODE - ADEC401

The Electronics & Communication Engineering department of Vimal Jyothi Engineering Collegeconducted an add-on course for fourth-semester ECE students aimed at skill development. The course was held from 10th March to 14th March 2023 and aimed to equip students with practical knowledge and experience in the field of Python programming.

The course, which covered fundamental concepts in Python programming and their practical implementation was led by Mr. Akesh and Mr. Jayasurya of Quest Innovative Solutions and was attended by 54 fourth-semester ECE students from Vimal Jyothi Engineering College.

On the first day of the add-on course, a range of topics were covered, primarily focused on the fundamentals of Python programming. The day began with an introduction to Python and a discussion of its advantages and disadvantages compared to other programming languages such as R. The session also covered the popular Integrated Development Environments (IDEs) for Python and provided guidance on installing Python and Visual Studio Code. Students were then introduced to the concept of variables, including how to declare them and the automatic assignment of data types in Python. The session also covered collections of variables and basic data structures such as strings, including strings as arrays, string length, checking if a string is in, and string slicing. Additionally, operators, including arithmetic and logical operators and Boolean operators, were introduced. Finally, the session concluded with an overview of lists, tuples, sets, and dictionaries, providing students with a solid foundation in Python programming fundamentals.

On the second day of the add-on course, the session focused on additional fundamentals of Python programming. The day began with an introduction to looping statements, including a discussion of what loops are and an overview of for-each loop and while loops. The session then moved on to conditional statements, including an explanation of what they are and a detailed look at the different types of conditional statements. Next, the session covered user-defined functions and lambda functions, including an explanation of what each is and how to use them. The day concluded with a session on file handling in Python, providing students with a foundation in this important aspect of Python programming.

On the third day of the Python workshop, participants were introduced to the basics of data science and data analysis using the Python programming language. The day started with

an overview of the Anaconda environment and how to install Jupiter Notebook for running Python code. The primary focus of the day was on the panda's library, which is a powerful data manipulation and analysis tool. Participants learned how to read and process data files using pandas, and how to perform various data cleaning tasks such as identifying and removing missing values and duplicates. They were also introduced to data exploration techniques using pandas, such as selecting, grouping, and sorting data.

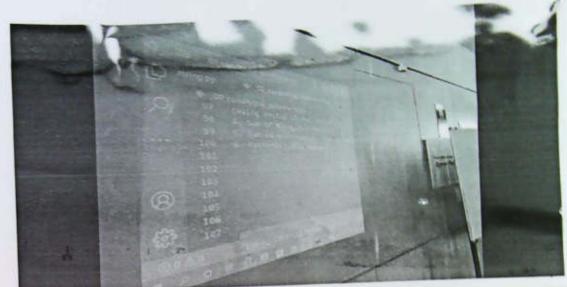
Additionally, the workshop covered the basics of working with NumPy arrays, which are an essential component of data analysis in Python. Participants learned how to create and manipulate arrays, perform operations on them, and use them for data analysis tasks.

Finally, the day concluded with an introduction to Matplotlib, a powerful visualization tool for creating charts, graphs, and other visual representations of data. Participants learned how to use Matplotlib to create basic plots and charts to display their data in a meaningful way. Overall, the day provided participants with a solid foundation in data analysis using Python and its various libraries.

On the fourth and fifth days of the Python course, participants were introduced to the basics of application development using Python. They were taught how to use the Python language to write scripts and programs, and how to create basic applications using various Python libraries. During these days, participants learned about important programming concepts such as variables, data types, conditionals, loops, and functions. They were also introduced to object-oriented programming in Python and how to create classes, objects, and methods. In addition, participants were introduced to different Python libraries that are commonly used in application development, such as Flask, Django, and Tkinter. They learned how to use these libraries to create web applications, GUI-based applications, and other types of applications. The practical hands-on approach of the course allowed participants to apply what they learned by working on various projects and exercises. By the end of the course, participants had gained a solid understanding of Python programming fundamentals and application development, which provided a strong foundation for further exploration and development in this area.

At the end of the Python workshop, feedback was collected from the participants to assess their experience and understanding of the material covered. Additionally, an assessment test was conducted to evaluate their proficiency in the language. The feedback and assessment results were overwhelmingly positive, with participants expressing satisfaction with the workshop and their increased knowledge of Python. Certificates were provided to students who completed the assessment and provided feedback. Overall, the response and performance of the participants were deemed to be excellent, indicating the success of the workshop and the effectiveness of the instruction provided.

**PHOTOS** 













# Python Programming for Data Science

FOR VIMAL JYOTHI ENGINEERING COLLEGE

**Duration: 18 Hours** 





### Day 1

- Why Python?
- Advantages and Dis-advantages of Python
- A comparison between R and Python
- Popular IDEs for Python
- Python Installation
  - Basic python installation
  - Python IDE installation \_ Visual Studio Code
- Introduction to variables
  - Declaring variables in Python
  - The automatic assignment of data types to variables in Python
  - Collections of variables
  - Basic Data Structures
- Strings
  - Strings as array
  - String length
  - Check if is in
  - String Slicing
- Operators
  - Arithmetic and logical operator
  - Boolean operator
- Lists, tuples, sets and Dictionaries
  - Access Change and Add item to Lists, Tuples, Sets

### Day 2 -

- Looping Statements
  - What are loops
  - for-each loop
  - while loop
- Conditional Statements
  - What are conditional statements
  - Different types of conditional statements
- User defined functions, lambda functions
  - User defined functions
  - Lambda functions
- File handling





### Day 3

- Introduction to Data Science
- Installing Jupyter Notebook using Anaconda
- Pandas
- File Reading with pandas
- Function of pandas with files
- Pandas Data Frame
- Data Cleaning
- Finding Na Values
- **Deleting Duplicates**
- **Data Exploration**
- **NpArrays**
- Matplotlib basics

## **Application Development**

House price prediction using linear regression



## Vimal Jyothi Engineering College Chemperi Department of Electronics & Communication Engineering Proposal for Add on course – S4 ECE (2021-25 Batch) Tentative dates – 8-03-23 to 12-03-2023

Course offered By- Quest Innovative Solutions
Topic – Fundamentals in Python Programming
Total No. of Hours – 30 Hours
No. of students -54
Course fee – 30000 + 18% Tax. (35400/-)

## Syllabus-Fundamentals in Python Programming

### Day I

9.00 - 11.00	Why Python? Advantages and Dis-advantages of Python A comparison between R and Python
	Popular IDEs for Python
11.00 - 01.00	Python Installation
	Python IDE installation -Visual Studio Code
	Introduction to variables
	Declaring variables in Python
	The automatic assignment of data types to variables in Python
	Collections of variables
	Basic Data Structures
2.00 - 4.00	Strings
	Strings as array
	String length
	Check if is in
	String Slicing
	Operators
	Arithmetic and logical operator
	Boolean operator
	Lists, tuples, sets and Dictionaries
	Access Change and Add item to Lists, Tuples, Sets

### Day II

9.00 - 11.00	Looping Statements	
	What are loops	

	for-each loop while loop	
11.00 - 01.00	Conditional Statements What are conditional statements Different types of conditional statements	
2.00 - 4.00	User defined functions, lambda functions User defined functions Lambda functions File handling	

Day III

9.00 - 11.00	Introduction to Data Science Installing Jupyter Notebook using Anaconda Pandas File Reading with pandas
	Function of pandas with files
11.00 - 01.00	Pandas Data Frame Data Cleaning
4.5	Finding Na Values Deleting Duplicates
2.00 - 4.00	Data Exploration NpArrays
	Matplotlib basics

Day IV

0.00 4.00	
9.00 - 4.00	Application Development Using Python

Day V

9.00 - 4.00	Application Development Using Python	

## Curriculum Prepared by

Mr. Vinod J Thomas

Mr. Manoj K C

Ms. Jerrin Yomas

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## Vimal Jyothi Engineering College, Chemperi

### Dept.of ECE

## S4 ECE Add on course-Fundamentals in Python

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SLNo		Attendance-14/03/2023		natur
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## **EVENT PROPOSAL FORM**

1	Event type and Name	Add on course - "Robotics"
2	Date and time	18/09/2023 to 23/09/2023, 9.00AM to 4PM
3	Participants/audience	S7 ECEstudents (2020-24 Batch).
4	Venue	ECE department -Advanced communication engineering lab.
5	Objectives	To understand the fundamentals of Embedded systems and circuits
6	Expected outcomes	Students will be able to -gain practical experience in embedded systems and PCBgain the knowledge in microcontroller programming and python programming
7	Connected POs/PSOs	PO1, PO3,PO5, PO12
8	Resource requirements	Course fee – Rs.35000
9	Any other Relevant Information	Resource Person/team – kathiru Santhi Kumar,Alisons Informatics(P) Ltd,Kannur
10	Responsible Persons	Ms.LeksmyS AP, ECE Mr. Binil Kumar K , AP, ECE MR. Adarsh K S, AP, ECE
11	Department	Electronics & CommunicationEngineering Department, VJEC.

Proposal prepared by Lekshmy S Assoc. Prof ECE Proposal Recommended by Dr. Anto Sahaya Dhas Professor &Head, ECE Dept.

Days	Modules	otics Session Wise Breakt	
		Topics	Total Hours
		1.1 embedded system & Example	
		1.2 microprocessors & microcontrollers	
		1.3 RAM & ROM	
		1.4 Transducers & Sensors	
		1.5 CMOS Logic and TTL Logic	3Hr Theory
	1. Introduction to	1.6 Discussion on 5V Power Supply	
	Embedded System and Embedded	1.7 NOT gate using Transistor	
	Circuits	1.8 Transistor as Switch	
		1.9 Buzzer circuit using Transistor.	
		1.10 Relay circuit using Transistor.	
		1.11 IR Module using transistor.	
DAY 1		1.12 Motor Driver (L293D).	
אוו	2. Circuit Designing On Bread Board	2.1 Design and Setup a 5V DC Power Supply using Bridge Rectifier.	3Hr Practical
		2.2 Verify NOT gate using Transistor circuit.	
		2.3 Implement a moisture sensor circuit using transistor	
		2.4 Design a Buzzer Module and verify the circuit.	
		2.5 Design a Relay module and control the 230V AC supply of a Lamp.	
		2.6 Implement an IR module using Transistors.	
		2.7 Build a circuit using L293D to rotate a DC motor in Clockwise and Anticlockwise.	

		3.1 ATmega328 Pin out and Discussion  3.2 Study of LED Blinking program.	
		3.3 Study Microcontroller programming to read a switch status	
		3.4 Read IR module status.	
		3.5 Implement IR controlled Lamp	
	3. Microcontroller Programming session1	3.6 Study Microcontroller programming to read a LDR sensor status	3Hr Practical
		3.7 Implement an automatic streetlight based on Light intensity.	
		3.8 Study Microcontroller programming to Display a Word on LCD.	
DAY 2		3.9 Measure Light intensity value and Display it on LCD.	
		3.10 Transmit and receive Data serially through UART.	
		3.11 Rotate Motor Clockwise and Anticlockwise Using Android Application.	
	4. Build a Bluetooth controlled and Line Following Robot	4.1 Write program to control the movement of vehicle through android application	3Hr Practical
		4.1 Test the program on the real RC Car	
		4.1 Write program for line following Robot	
		4.2 Test the program on the real Line following Robot	

		5.1 Make an account in MIT app Inventor	
	5. Android Application Development	5.2 Familiarization of MIT App Designing and Block Method coding.	ЗНг
		5.3 Build a basic camera application and testing on an android phone	
		5.4 familiarize Speech recognition and Text to Speech Module	
		5.5 Familiarize TinyWebDB for Internet based data sharing.	
		5.6 Testing the developed application	
	6.Microcontroller Programming Session2	6.1 Interfacing Ultrasonic sensor with microcontroller.	
DAY 3		6.2 Display the value of Ultrasonic sensor on LCD	
		6.3 send Ultrasonic sensor value to android application	
		6.4 build Obstacle Avoidance robot.	
		6.5 Build Voice controlled Robot	3Hr



## CERTIFICATE

OF

## PROFICIENCY

Quest Innovative Solutions certifies that Ms. Vaishnavi E (VML21EC049). 4th semester, B.Tech Electronics and Communication Engineering student of Vimal Jyothi Engineering College, Chemperi, Kannur has completed 5 days add-on course titled "Fundamentals in Python Programming" during the period from 10/03/2023 to 14/03/2023.

Chief Technology Officer



Centre Head

Date: 30/03/2023

Certificate No. CHN1112102706



Quest Innovative Solutions Pvt. Ltd. Head office: MKS Towers, SA Road, Kadavanthra, Cochin - 682020 T: 0484-2204108/2204109 | www.qis.co.in

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