



**MAR BASELIOS CHRISTIAN**  
COLLEGE OF ENGINEERING & TECHNOLOGY  
KUTTIKANAM, PEERMADE



## QUEST INNOVATIVE SOLUTIONS COCHIN



**AKASH M**  
Software Trainer



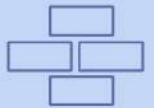
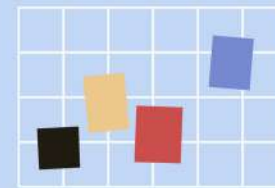
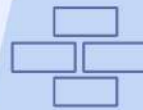
**JAYASURYA T APPU**  
Software Trainer

**Date : 11 - 15 SEP 2023**  
**Time : 9 AM - 4 PM**



# **BASICS OF PYTHON** **OBJECT ORIENTED PROGRAMMING** **TKINTER GUI** **HANDS ON PROJECT**

**DEPARTMENT OF**  
**ELECTRONICS AND COMMUNICATION**  
**ENGINEERING**





# CAMPUS TRAINING BUSINESS PROPOSITION



Quest Innovative Solutions Pvt. Ltd.

MKS Towers

SA Road, Kadavanthra

Kochi - 20

[www.qis.co.in](http://www.qis.co.in)





## QIS ACADEMY

The education wing of Quest Innovative Solutions



● 22 years of experience in Training, Certification and Placements in India.

● ISO 9001: 2015 & 10002: 2014 Certified Company

● Approved by Skill India Mission

We are the most trusted training institute based in Kochi since 2000. As part of 2020 plans, we would like to explore the possibility of association with your company of repute to deliver some of the best online live training programs to your client network.



Professional training programs offered in

Embedded Systems

MATLAB

Hardware, Networking and Server (Microsoft, Cisco & Red Hat)

.NET, JAVA, Python, PHP7

Multi-Platform Mobile Application Development

React JS/Native, Node.JS, Angular 8, Hibernate, Struts 2, Spring 5,  
Spring Boot 2, Wordpress, Codeigniter, Laravel, Django, Flask

PIC, ARM, AVR, Arduino, Raspberry Pi,  $\mu$ C/OS-II, Embedded C

Data Science, Machine Learning, Artificial Intelligence  
Deep Learning

Quest Innovative Solutions also develops business focussed products and solutions in **Embedded Systems, Systems Softwares, Web Solutions and Application Softwares**

## Proposed Training Program - Purpose & Benefits

Mar Baselios Christian College of Engineering and Technology has indicated a need for training support in Python programming for their ECE students.

This training program will help students to understand Python programming in the most simplified way. Our well designed training program ensures that students get the required proficiency, from writing the first line of code to building an application with Python. Our unique blend of industry knowledge & training experience makes us uniquely qualified to administer this training program.

## Evaluation Plan

Assignment & Application development.

## Mode of Training

Direct in the campus

## Training Cost

Sl. No.	Program	No. of Trainees(Max)	Duration	Cost of Training Per Head Exclusive of GST(Rs)
1	Exploring Python	56	5 Days (30 Hrs)	₹ 800

\*The above quote is excluding GST at the rate 18%.

(Any change in Government Levies, GST & other taxes will be applicable at the time of payment)

\*This proposal is valid for 30days from the proposal date.

## Mastering Python Programming

- **Introduction to Python**
  - ❖ History
  - ❖ Features
  - ❖ Datatypes, what is a variable? And Identifiers.
  
- **Conditional statements**
  - ❖ If
  - ❖ If – else
  - ❖ If – elif –else
  
- **Loops**
  - ❖ While
  - ❖ For
  - ❖ Range()
  - ❖ Nested for loop.
  
- **String** (Discuss Up to slicing before loops)
  
- **List**
  
- **Tuple**
  
- **Dictionary**
  
- **Import Statements**
  
- **Functions**
  - ❖ Syntax
  - ❖ Return
  - ❖ Lambda function
  
- **Object Oriented Programming**
  - ❖ What is OOP
  - ❖ Six Concepts
  - ❖ Class
  - ❖ Object
  - ❖ Encapsulation
  - ❖ Data Abstraction
  - ❖ Polymorphism
  - ❖ Inheritance

- **Tkinter GUI**
  - ❖ Four Basic Steps
  - ❖ What is a widget
    - a) Entry
    - b) Button
    - c) Radio button
    - d) Check button
    - e) Combo box
  - ❖ Tkinter Geometry
    - f) Pack (little explanation)
    - g) Place
    - h) Grid
  
- **CRUD project using Tkinter and Dictionary.**



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**Report on Add-on Course on “BASICS OF PYTHON ORIENTED PROGRAMMING  
TKINTER GUI”**

**PROGRAM DETAILS:**

The program conducted on 11<sup>th</sup> September 2023 to 15<sup>th</sup> September 2023. Akash M and Jayasurya T Appu (Software Trainer from QIS Academy) was the chief recourse person. It was a five day hands on training conducted for second year students of ECE department. There were nearly 56 students attended this program. The aim of this course was to provide basic knowledge on python introduction through open source Tkinter GUI platform for various applications. The hands on training were conducted in the systems lab of MBCCET.

