

## **Request Letter**

From,  
G.Siva Kumar,  
Representing for II B.Sc., (MPCs),  
SVGM Govt. Degree College,  
KALYANDURG – AP,  
Pin : 515761.

To,  
The Principal,  
Government Degree College,  
Kalyandurg,  
Anantapur – AP.

**Subject:** Request to Commence a Diploma Certificate Course in Python through Alison Online Learning Platform – Request – Regarding.

**Respected Sir,**

I, on behalf of the II B.Sc (MPCs) students at Government Degree College, Kalyandurg, am writing to respectfully request the introduction of a Diploma Certificate Course in Python through the Alison online learning platform. In this rapidly evolving digital age, proficiency in programming languages like Python has become essential for students pursuing degrees in Mathematics, Physics and Computer Science.

Python is a versatile and widely used programming language that finds applications in data analysis, artificial intelligence, web development, and more. By offering a dedicated Python course, our college can equip students with the skills necessary to thrive in various academic and professional fields.

The Alison online learning platform is renowned for its user-friendly interface, accessibility, and high-quality educational resources. It would provide an ideal platform for students to learn Python efficiently. We believe that introducing this course will not only enhance our academic curriculum but also empower students to compete in the competitive job market.

We kindly request your support and approval for the implementation of this course, which we believe will be immensely beneficial to our academic community. We are ready to collaborate with the college administration to facilitate the smooth integration of this course into our curriculum.

Thank you for considering our request. We look forward to your positive response and the opportunity to advance our skills and knowledge in Python.

Yours sincerely,

[G.Siva Kumar]  
And other II B.Sc (MPCs) Students



Government Degree College, Kalyandurg

**Circular**

Date: 24<sup>th</sup> January 2023

To: II B.Sc (MPCs) Students

Subject: Enrolment in Diploma in Python Certificate Course - Requested by G. Siva Kumar and Team.

Dear Students,

We are pleased to announce the commencement of a Diploma in Python Certificate Course ( Purely online) Offered by Alison, Education Company, requested by G. Siva Kumar and Team. This 60-day course will equip you with vital programming skills.

Python, a versatile language with applications in mathematics, physics, and computer science, offers tremendous career prospects. By enrolling in this course, you'll boost your academic and professional capabilities.

Kindly register by 31<sup>st</sup> January 2023. Detailed instructions will be shared via Whats app Group and notice board. Seize this opportunity to acquire valuable skills, courtesy of G. Siva Kumar and Team.

Sincerely,

M.Sudhakar  
Lecturer in Computer Science  
Government Degree College,  
Kalyandurg.

## Course Syllabus

A 60-day Python language course can cover a wide range of topics and skills, starting from the basics and gradually progressing to more advanced concepts. Below is a suggested syllabus for a 60-day Python course:

### **Day 1-5: Introduction to Python**

Day 1: Introduction to Python, installing Python, and writing your first program.

Day 2-3: Variables, data types, and basic operations.

Day 4-5: Control structures (if statements, loops), and basic input/output.

### **Day 6-10: Functions and Modules**

Day 6-7: Defining functions, arguments, and return values.

Day 8-9: Understanding modules, importing modules, and creating your own.

Day 10: Built-in Python modules (e.g., math, random).

### **Day 11-15: Data Structures**

Day 11-12: Lists and tuples.

Day 13-14: Dictionaries and sets.

Day 15: String manipulation.

### **Day 16-20: Object-Oriented Programming (OOP)**

Day 16-17: Introduction to OOP concepts (classes and objects).

Day 18-19: Inheritance, encapsulation, and polymorphism.

Day 20: Exception handling.

### **Day 21-25: File Handling and I/O**

Day 21-22: Reading and writing text files.

Day 23-24: Working with CSV and JSON data.

Day 25: Introduction to binary file handling.

### **Day 26-30: Intermediate Topics**

Day 26-27: Regular expressions (regex).

Day 28-29: Working with dates and times.

Day 30: Introduction to databases (e.g., SQLite).

### **Day 31-35: Web Development Basics**

Day 31-32: Introduction to web development with Python.

Day 33-34: Building a simple web application with Flask.

Day 35: Introduction to HTML and CSS.

### **Day 36-40: Data Analysis and Visualization**

Day 36-37: Introduction to data analysis with pandas.  
Day 38-39: Data visualization with Matplotlib and Seaborn.  
Day 40: Basic statistics and data manipulation.

### **Day 41-45: Advanced Topics**

Day 41-42: Concurrency and multithreading.  
Day 43-44: Introduction to machine learning with Python (using libraries like scikit-learn).  
Day 45: Introduction to data science with Jupyter notebooks.

### **Day 46-50: Project Development**

Day 46-49: Group or individual projects to apply skills learned.  
Day 50: Project presentations and peer evaluations.

### **Day 51-55: Testing and Debugging**

Day 51-52: Unit testing and test-driven development.  
Day 53-54: Debugging techniques and best practices.  
Day 55: Code optimization.

### **Day 56-60: Final Projects and Review**

Day 56-58: Advanced project development.  
Day 59: Final project presentations.  
Day 60: Course review, Q&A, and next steps.

This syllabus is just a guideline, and you can adjust it to meet the specific needs and pace of your learners. Additionally, make sure to include hands-on exercises, coding challenges, and real-world projects throughout the course to reinforce learning.

Time Table: it is purely students free time. Because it is online pre designed program module. As well it is purely app based learning (web also). If student cleared one topic moves to next topic. And also it is self driven phase. Writing and submission of assignments and final examination also online based only.

## **Course Outcomes:**

Upon successful completion of the Python course, students will achieve the following outcomes:

**Proficiency in Python Programming:** Students will have a solid understanding of Python, enabling them to write, debug, and maintain Python code effectively.

**Problem-Solving Skills:** Learners will acquire strong problem-solving abilities, honing their capacity to break down complex problems into manageable steps and develop Python solutions.

**Data Analysis and Visualization:** Students will gain knowledge of data manipulation, analysis, and visualization using libraries like pandas, Matplotlib, and Seaborn.

**Web Development with Flask:** Participants will be able to create basic web applications using the Flask web framework, understanding concepts like routing and templating.

**Introduction to Machine Learning:** Students will grasp the fundamentals of machine learning with Python, learning how to build and evaluate basic machine learning models using libraries like scikit-learn.

**Effective Debugging and Code Optimization:** The course will equip learners with debugging techniques and strategies for optimizing Python code for better performance.


By the end of the Python course, students will possess a well-rounded skill set that prepares them for a variety of applications, from data analysis and web development to machine learning. These skills are valuable in academic pursuits, research, and the professional world, making graduates proficient Python programmers with versatile problem-solving capabilities.

College Provides Wi-Fi facility and students will attend the course in Computer Science Lab



Online question papers and designed as MCQ format random Online questions will appear on the screen.

As well Alison demands more than \$ 30 for certification. So students downloaded Sample certificate after course completion. Few certificates are enclosed here...




The image shows a sample certificate from Alison. It is titled 'Certificate' and features the Alison logo and a CPD Certified logo. The text on the certificate reads: 'This is to certify that GUMMAGATTA PRAKASH Successfully obtained certificate in The Fundamentals of Chat GPT: AI Language Model'. It also includes a signature line for 'Hazel Woodward, Director of Certification' and a 'Date of Award' field. A large red 'SAMPLE' watermark is overlaid on the certificate.

Choose the type of Certificate you want

Digital Certificate (pdf only)	\$29.00
Certificate (pdf + print)	\$38.00
Framed Certificate (pdf + framed print)	\$51.00

Next



The image shows a mobile app interface. At the top, there is a status bar with the time '10:59 AM' and various icons. Below the status bar, there are three buttons: 'certification', 'Shipping', and 'Payment'.

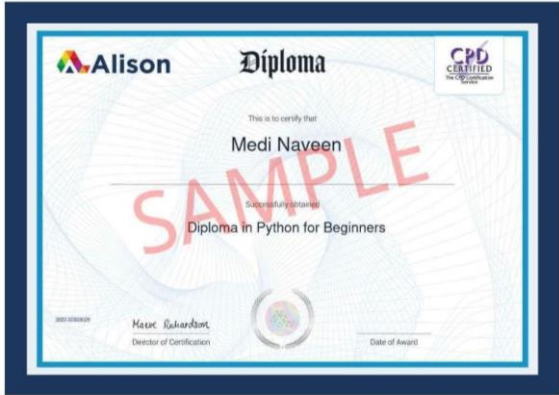
certification Shipping Payment

, choose a course you want a Certificate for

### Diploma in Python for Beginners



Completed: April 15, 2023





List of Students:

S.No.	Hall Ticket Number	Name of The Student	Student Signature
1	2142011050001	B.Arun	
2	2142011050003	B. Mallesh	
3	2142011050004	B. Vijay kumar	
4	2142011050006	E.Anji	
5	2142011050007	G. Siva kumar	
6	2142011050008	G.Prakash	
7	2142011050009	K.Kaveri	
8	2142011050010	K.Vandana	
9	2142011050012	K.Suresh babu	
10	2142011050015	M.Ashok	
11	2142011050017	M.Gowtham	
12	2142011050019	M.Naveen	
13	2142011050020	M.Babu vara Prasad	
14	2142011050021	M.Chaithanya sasi	
15	2142011050022	N.Naresh	
16	2142011050023	N.Manjunath reddy	
17	2142011050025	P.Sreenath	
18	2142011050027	S.Asha	
19	2142011050030	Y.Aishwarya	