AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by AICTE, Permanently Affiliated to JNT University Kakinada, Accredited by NAAC and Recognized under 2(f) &12 (b) by UGC, New Delhi)
Tamaram, Makavarapalem, Narsipatnam (RD), Visakhapatnam-531113

Certificate Course
on

PYTHON PROGRAMMING

From *20*th December *2021* *to* 31st December *2021*

ORGANIZED BY

DEPT. OF COMPUTER SCIENCE ENGINEERINGAVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

MAKAVARAPALEM (V), VISAKHAPATNAM-531113

AVANTHI INSTITUTE OF ENGINEERING & TECHNOLOGY

AIET started in the year 1999 and offers various courses at Engineering and PG level. The college is providing with rooms, computer centre, laboratories and seminar hall with audio-visual equipments. Industry Institute interaction is conducted regularly to emphasize on the latest trends in the present market.

It is very near to Narsipatnam. Frequent bus facilities are available both from and to Visakhapatnam and Narsipatnam. Very safe and secure hostel facility is available for Girl students. These are the additional facilities besides excellent academic atmosphere in the college campus.

DEPARTMENT OF COMPUTER SCIENCE ENGINEERING

The Computer Science & Engineering department was established with B.Tech Program in 1999 with intake of 60 students and this was increased to 120 students in 2007 and increased to 180 students in 2012. The Post graduate Program M.Tech with C.S.E was started in 2005 with intake of 18 Studentsand this was increased to 24 students in 2012. The Computer Science & Engineering department was accredited by NBA in 2009 and 2014. Department mission is to be Instrumental in the

field of computer science & engineering by providing high quality education and continues improvement process of the program. The department has full fledged faculty with four professors with Ph.D and 40 staff members with experience in teaching and industry, which leads the skill students to get employment in the market. . The department encourages the faculty members and the students to participate paper presentations, seminars, workshops and National, International conferences and research activities. The department is well equipped laboratories and the computers have sophisticated development software tools. The department provides training to its students in advanced technologies like JAVA,WEB TECHNOLOGIES,DOTNET,PHP,Data Warehousing, Data Mining tools and Data storage systems as a supplement to the curriculum to enhance the employability of students. Our faculty members are the members of Computer Society of India, ISTE, IEEE.

ABOUT COURSE

Python is a premier, flexible, and powerful open-source language that is easy to learn, easy to use, and has powerful libraries for data manipulation and analysis. For over a decade, Python has been used in scientific computing and highly quantitative domains such as Finance, Oil and Gas, Physics, and Signal Processing. Today, it is the most preferred language for Artificial Intelligence (AI), Robotics, Web Development, and Big Data.

TOPICS TO BE COVERED

Day 1 : Introduction to Python
Day 2 : Python basics
Day 3 : Python program flow
Day 4 : Functions and modules
Day 5 : Exception handling
Day 6 : File handling
Day 7 : Classes in python
Day 8 : Generators and iterators
Day 9 : Data structures
Day 10 : Collections

For Registration please contact Mr. B.Ganesh, Assistant Professor,CSE.

CHIEF PATRON
Smt. M. Gnaneswari
President,
Avanthi Institute of Engineering and Technology

PATRON
Dr. C P V N J Mohan Rao
Principal,
Avanthi Institute Of Engineering And Technology

CHAIRMAN
U.Nanaji
Head of the Department
Computer Science & Engineering

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CIRCULAR

Date: 13/12/2021

On behalf of the Department of Computer Science and Engineering, AIET is conducting ten days certificate course collaboratively with APPSSDC on "**Python programming**" from 20th December 2021 to 31st December, 2021 for all the students of III year CSE. I advise to all the students of III year CSE to enroll your details for above course. For more details, you may consult Course Coordinator Mr. B.Ganesh, Assistant Professor, CSE

Resource Person Details:

1. Siddhodhana
   Trainer
   APSSDC
2. Swamy Kankipati
   Trainer
   APSSDC

U. Nanaji
Head of the Department
Computer Science and Engineering

Avanthi Institute of Engg & Technology
Tamaram, Makavarapalem Md
Visakhapatnam District, Pin-531113

Copy to: Principal, AIET

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Python Programming

From 20th December 2021 to 31st December 2021

Syllabus

Day 1 : Introduction to Python

Day 2 : Python basics

Day 3 : Python program flow

Day 4 : Functions and modules

Day 5 : Exception handling

Day 6 : File handling

Day 7 : Classes in python

Day 8 : Generators and iterators

Day 9 : Data structures

Day 10 : Collections

Mr.B.Ganesh
Coordinator

U.Nanaji
Head Of the Department
Computer Science and Engineering

Avanthi Institute of Engg & Technology
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Python Programming

From 20th December 2021 to 31st December 2021

Schedule

DAY 1(20-12-2021)

9.00 A.M – 1.00 P.M : Introduction to Python

1.00 P.M – 2.00 P.M : Lunch break

2.00 P.M – 4.00 P.M : Installation of Python with real world examples

DAY 2(21-12-2021)

9.00 A.M – 1.00 P.M : Python basics

1.00 P.M – 2.00 P.M : Lunch break

2.00 P.M – 4.00 P.M : Data types in python

DAY 3(22-12-2021)

9.00 A.M – 1.00 P.M : Python Programming flow

1.00 P.M – 2.00 P.M : Lunch break

2.00 P.M – 4.00 P.M : Basic i/o operations and operators

DAY 4(23-12-2021)

9.00 A.M – 1.00 P.M : Functions

1.00 P.M – 2.00 P.M : Lunch break

2.00 P.M – 4.00 P.M : Modules

DAY 5(24-12-2021)

9.00 A.M – 1.00 P.M : Exception handling

1.00 P.M – 2.00 P.M : Lunch break

2.00 P.M – 4.00 P.M : Loops

DAY 6(27-12-2021)

9.00 A.M – 1.00 P.M : File handling

1.00 P.M – 2.00 P.M : Lunch break

2.00 P.M – 4.00 P.M : Packages

DAY 7(28-12-2021)

9.00 A.M – 1.00 P.M : Classes

1.00 P.M – 2.00 P.M : Lunch break

2.00 P.M – 4.00 P.M : objects

DAY 8(29-12-2021)

9.00 A.M – 1.00 P.M : Generators

1.00 P.M – 2.00 P.M : Lunch break

2.00 P.M – 4.00 P.M : Iterators

DAY 9(30-12-2021)

9.00 A.M – 1.00 P.M : Data Structures

1.00 P.M – 2.00 P.M : Lunch break

2.00 P.M – 4.00 P.M : Ecceptions

DAY 10(31-12-2021)

9.00 A.M – 1.00 P.M : Collections

1.00 P.M – 2.00 P.M : Lunch break

2.00 P.M – 4.00 P.M : String methods

Mr.B.Ganesh

Coordinator

U.Nanaji

Head Of the Department

Computer Science and Engineering

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Python Programming
Dated : 20/12/2021 To 31/12/2021
III B.Tech Students Attendance List

S.No	Roll No	Name of the student	DAY 1	DAY 2	DAY 3	DAY4	DAY 5	DAY 6	DAY 7	DAY 8	DAY 9	DAY10
1	19811A0501	ABBURI VENKATA SURENDRA	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
2	19811A0502	ALLADA BHARGAV SANTHOSH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
3	19811A0503	ANDUKURI VENKATALAKSHMI BHARGAVI	✓	✓	✓	×	✓	✓	✓	✓	✓	✓
4	19811A0504	ANNAM MOUNIKA SRI	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
5	19811A0505	BALIREDDI MADHU PRAKASH	✓	✓	✓	✓	✓	×	✓	✓	✓	✓
6	19811A0506	BATTALA LEKHYA SRI	✓	✓	✓	✓	✓	✓	✓	✓	×	✓
7	19811A0507	BILLA CHANDRIKA	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
8	19811A0508	BODDETI CHANDIPRIYA	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
9	19811A0509	BONDA TARUN	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
10	19811A0510	BOTSA DURGA PRASAD	✓	✓	×	✓	✓	✓	✓	✓	✓	✓
11	19811A0511	BUDDIGA NIKHIL RAM GOUD	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
12	19811A0512	CHELLURI VASAVI	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

13	19811A0513	CHOKKAKULA BHARATHI	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
14	19811A0514	CHOPPA DURGALAKSHMI	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
15	19811A0515	DABBEERU NAGALAKSHMI	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
16	19811A0516	DONKA INDRANI	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
17	19811A0517	DUGGIRALA SAI PAVANI JAGADEESWARI	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
18	19811A0518	EATI JOSHNA	✓	✓	×	✓	✓	✓	✓	✓	✓	✓
19	19811A0519	GANGARAPU PAVANI	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
20	19811A0520	GATREDDI SANDHYA RENUKA	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
21	19811A0521	GEDELA PRADEEP	✓	✓	✓	✓	✓	✓	✓	×	✓	✓
22	19811A0522	GHATTA SRINIVASA RAGHAVENDRA	✓	✓	✓	×	✓	✓	✓	✓	✓	✓
23	19811A0523	GOGU CHANDINI	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
24	19811A0524	MARRA MOUNICA	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
25	19811A0525	GURRAM VENKATA ANUSHA	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
26	19811A0526	JAVVADI RAJESH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
27	19811A0527	KALAGANI JYOTHIRADITYA	✓	✓	✓	✓	✓	✓	✓	✓	×	✓
28	19811A0528	KAMPATI NAGADEVI	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
29	19811A0529	KANCHIPATI MADHURI	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

30	19811A0530	KANDREGULA NAVEEN ASHOK	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
31	19811A0531	KANITHI SUSHMITHA LAKSHMI	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
32	19811A0532	KARAKAVALASA SUJIT	✓	✓	✓	✗	✓	✓	✓	✓	✓	✓
33	19811A0533	KARRI ANUSHA	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
34	19811A0534	KARRI JYOTHI SAI LAKSHMI	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
35	19811A0535	KAYALA GANGA BHAVANI	✓	✓	✓	✓	✗	✓	✓	✓	✓	✓
36	19811A0536	KOMMANAMANCHI TARUN ARAVIND	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
37	19811A0537	KOMMANAMANCHI VIVEK SARMA	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
38	19811A0538	KONDRAGUNTA TEJA	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
39	19811A0539	KOTTANA SIVA KUMAR	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
40	19811A0540	KOVVADA HEMA	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
41	19811A0541	KOVVADA NAGA KEERTHI	✓	✓	✓	✓	✓	✓	✓	✓	✗	✓
42	19811A0542	KUNDRAPU SIVAANJALINAGADEVI	✓	✓	✓	✓	✗	✓	✓	✓	✓	✓
43	19811A0543	LANKA DURGA JAGADEESWARI JYOTHSNA	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

44	19811A0544	LEKKALA CHAITANYA KIREETI	✓	✓	✓	✓	✓	✓	✓	✓	✗	✓
45	19811A0545	LEKKALA VENKATA SAI	✓	✓	✗	✓	✓	✓	✓	✓	✓	✓
46	19811A0546	PAILA VENU GOPAL	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
47	19811A0547	PULAVARTHI SATYANARAYANA	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
48	19811A0548	PYLA MURARI	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
49	19811A0549	SRIGAKOLAPU PRIYA NIKITHA	✓	✓	✓	✓	✗	✓	✓	✓	✓	✓
50	19811A0550	VARADHI YASWANTH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
51	19811A0551	BALLANKI PAVANKUMAR	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
52	19811A0552	BORA LALITH SUNDAR	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
53	19811A0553	CHANDAKA SUDHEER	✓	✓	✓	✓	✓	✓	✓	✗	✓	✓
54	19811A0554	CHENNAMSETTY ABHILASH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
55	19811A0555	ETAMSETTI POORNASHANMUK HESWARA RAO	✓	✓	✓	✗	✓	✓	✓	✓	✓	✓
56	19811A0556	GANGALA NAGA SAI KIRAN	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
57	19811A0557	GANJI MURALIDHAR	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
58	19811A0558	GOKEDA ARAVIND	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

59	19811A0559	GORAPALLI SANJAY KUMAR	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
60	19811A0560	JAVVADI SURESH	✓	✗	✓	✓	✓	✓	✓	✓	✓	✓	
61	19811A0561	JINUGU CHANDRASEKHAR	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
62	19811A0562	KALIDINDI POOJASREE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
63	19811A0563	KATTA ARUN SATISH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✗	
64	19811A0564	KOLAGINI RAJA SRI	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
65	19811A0565	KOMMINENI VENKATA APPALA SAI PRAHARSHITH	✓	✓	✓	✗	✓	✓	✓	✓	✓	✓	
66	19811A0566	KOORAKULA RAMYA BHAVYA PRIYANKA	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
67	19811A0567	KOPPISETTY CHANDRAMOULI	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
68	19811A0568	LALAM SEETARAMA TEJA	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
69	19811A0569	LANKA SAI DEEPTHI	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
70	19811A0570	LANKE TARUN BABU	✓	✓	✓	✓	✓	✓	✓	✗	✓	✓	
71	19811A0571	MADALA HASWANTH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
72	19811A0572	MAKIREDDI BHAVANI	✓	✓	✓	✓	✓	✓	✓	✓	✓	✗	

73	19811A0573	MALLA LEELA VENKATA LAKSHMI	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
74	19811A0574	NAGAMBOINA VENKATA RATNAKAR	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
75	19811A0575	NAGUMANTRI SWETHA LAKSHMI	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
76	19811A0576	NAKKA DEEPIKA	✓	✓	✓	✓	✓	✓	✓	✓	✓	✗
77	19811A0577	NANDIPALLI MAHARAJA GANGA BHAVANI DEVI	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
78	19811A0578	NIMMADALA TANUSRI	✓	✓	✓	✓	✓	✗	✓	✓	✓	✓
79	19811A0579	PALLA PHANINDRA	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
80	19811A0580	PAVULURI KOUSIK	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
81	19811A0581	PEDIREDLA PAVAN	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
82	19811A0582	PEKALA RAJESH	✓	✓	✗	✓	✓	✓	✓	✓	✓	✓
83	19811A0583	PENUMATSA LAKSHMAN SAI RAJU	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
84	19811A0584	PUJARI LALU DATTA PRASAD	✓	✓	✓	✓	✓	✓	✓	✓	✗	✓
85	19811A0585	RUTTALA THANUJA	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
86	19811A0586	SAHUKARI HEMANTH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

87	19811A0587	SALADULA YAMUNA	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
88	19811A0588	SENAPATHI DURGA SYAMALA	✓	✓	✗	✓	✓	✓	✓	✓	✓	✓
89	19811A0589	SINGAMPALLI PHANINENDRA	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
90	19811A0590	UGGINA ANITHA	✓	✓	✓	✓	✓	✗	✓	✓	✓	✓
91	19811A0591	UGIINA AVINASH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
92	19811A0592	ULABALA GEETHADEVI	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
93	19811A0593	VEDULLA S S SATYA GAYATRI	✓	✓	✓	✓	✓	✓	✓	✓	✓	✗
94	19811A0594	VEETURI SRI HARSHITHA PRAVALLIKA	✓	✓	✓	✓	✓	✗	✓	✓	✓	✓

Coordinator

HOD

Avanthi Institute of Engg & Technology
Tamaram, Makavarapalem M
Visakhapatnam District, Pin-53[illegible]

Andhra Pradesh State Skill Development Corporation (APSSDC)

(Department of Skills Development & Training, Govt. of Andhra Pradesh)

Skill AP APSSDC

Certificate of Participation

Cert.No. SDC - PP - 7445 **Regd Id :** 19811A0533

This is to certify that Mr./Ms./Mrs. K.Anusha

of Avanthi Institute Of Engineering & Technology has successfully

participated Training Program on Python Programming

held from 20-12-2021 to 31-12-2021

Principal (or) HOD

Dr. Ravi K Gujjula
Chief General Manager (Technical)
APSSDC

Sri S. Satyanarayana, IAS
Managing Director
APSSDC

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

A Course On

Python Programming

Dated:20-12-2021

Coordinator

H.O.D

Avanthi Institute of Engg & Technology
Tamaram, Makavarapalem Md
Visakhapatnam District, Pin-531113

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Department of Computer Science and Engineering

Dt:31-12-2021

BRIEF REPORT

Department of Computer Science and Engineering, Avanthi Institute of Engineering and Technology had organized a certificate course on **"Python Programming" from** 20-12-2021 to 31-12-2021.

We had **Resource Person: Siddhodhana,Trainer,APSSDC** was explained about python introduction and installation of python. The difference between a compiled and interpreted languages. Many of those who had experience with C++/Java remarked how easy it was to declare a variable in Python (without specifying its data type) and change its data type fluidly. The reason is that Python doesn't actually "hold" any data but is merely pointers to data objects.

Resource Person: Swamy Kankipati, Trainer, APSSDC was explained about built-in data structures of Python (lists and dictionaries). The list is an ordered collection of data in Python. Its syntax, indexing, working and basic operations like len(), append(), sort(), and list concatenation were taught. They were also introduced to the map() function and list slicing. Next, we moved on to dictionaries in Python and its key-value structure was explained. Since dictionaries make use of Hashmaps, searching in dictionaries is faster than lists. Different dictionary functions like .keys(),.values(),.get(key), etc. were taught.

U. Nanaji
Head of the Department
Computer Science and Engineering

Avanthi Institute of Engg & Technology
Tamaram, Makavarapalem Md
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Coordinator