



SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

Palani Highway, Dindigul – 624 002, Tamilnadu.

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Email : ssmietdgl@gmail.com

Fax: 0451 – 2448855

Computer Science And Engineering

16/11/2019

CIRCULAR

We would like to inform that, Computer Science And Engineering department is about to conduct ten weeks training program on “Python with Advanced Concepts” .The interested students are instructed to register their names with Ms. S. Bharathi , AP/CSE on or before 30/11/2019 with out fail. Your effective participation is appreciated..



HOD/CSE



SSM

INSTITUTE OF ENGINEERING AND
TECHNOLOGY

APPROVED BY AICTE, NEW DELHI | AFFILIATED TO ANNA UNIVERSITY, CHENNAI
ACCREDITED BY NAAC | ACCREDITED BY NBA (ECE, EEE, MECH UG PROGRAMS)

TECHNOLOGY TRAINING ON PYTHON WITH ADVANCED CONCEPTS



Instructors
S.Bharathi
M. Kiruthika



Hod

Dr.V. Shanmugavel

Principal

Dr.D.Senthil Kumaran

From

Ms. S. Bharathi, AP/CSE
Ms. M. Kiruthika, AP/CSE
Department of Computer Science and Engineering,
SSM Institute of Engineering and Technology,
Dindigul

*IInd
IV Sem
15/11/19*

To

The Principal,
SSM Institute of Engineering and Technology,
Dindigul.

Through

The Head of the Department,
Department of Computer Science and Engineering,
SSM Institute of Engineering and Technology,
Dindigul.

Respected Sir,

Sub: Requisition to conduct Value added Course to our Students at our college- Reg.

We are planning to conduct Value added Course "*Python with Advanced Concepts*" at our college during the even semester of the academic year 2019-20. The course schedule is enclosed with this letter for your reference. Hence we kindly request your permission to conduct and guide the same.

Thanking You Sir,

Date: 15.11.2019

Place: Dindigul

Yours Faithfully,

*8B/11/19
V.Sunmugavel 15/11/19
Ms. S. Bharathi, AP/CSE
Ms. M. Kiruthika, AP/CSE*

V.Sunmugavel 15/11/19
HoD/CSE

Dr. V. Shunmughavel

D
Principal

Dr. D. Senthilkumaran

Enclosure:

1. Python with Advanced Concepts Course Schedule



SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

Dindigul – Palani Highway, Dindigul – 624 002.

Department of Computer Science and Engineering

Academic Year 2019-2020

VALUE ADDED COURSE

PYTHON WITH ADVANCED CONCEPTS

S.No.	Week	Topic Title	Topic Details
1.	Week 1	Introduction to Python Spyder tool	Introduction Spyder <ul style="list-style-type: none">• Setting working Directory• Creating and saving a script file• File execution, clearing console, removing variables from environment, clearing environment• Commenting script files• Variable creation• Arithmetic and logical operators• Data types and associated operations
2.	Week 2	Python-Data Structure	Data Structure <ul style="list-style-type: none">• Strings• Lists• Tuples• Dictionary• Sets
3.	Week 3	Python- Control structures Numpy Packages	Control structures <ul style="list-style-type: none">• if-else family• for loop• for loop with if-break• while loop Numpy <ul style="list-style-type: none">• Array• Matrix and associated operations• Linear algebra and related operations
4.	Week 4	Pandas Library	Pandas dataframe and dataframe related operations on Toyota Corolla dataset <ul style="list-style-type: none">• Reading files• Exploratory data analysis• Data preparation and preprocessing
5.	Week 5	Data visualization	Data visualization on Toyoto Corolla dataset using matplotlib and seaborn libraries <ul style="list-style-type: none">• Scatter plot• Line plot• Bar plot• Histogram• Box plot• Pair plot

6.	Week 6	Python - Object Oriented	Python - Object Oriented <ul style="list-style-type: none"> • Overview of OOP Terminology • Creating Classes • Creating Instance Objects • Accessing Attributes • Destroying Objects (Garbage Collection)
7.	Week 7	Python - Object Oriented	Python - Object Oriented <ul style="list-style-type: none"> • Class Inheritance • Overriding Methods • Base Overloading Methods • Data Hiding
8.	Week 8	Python with Database	Python with Database <ul style="list-style-type: none"> • Create Database • Insert • Find • Query • Delete • Update
9.	Week 9	Python-GUI	Python-GUI <ul style="list-style-type: none"> • Button • Canvas • Checkbutton • Radio Button • Frame • Label • ListBox
10.	Week 10	Python-GUI	Python-GUI <ul style="list-style-type: none"> • Menu • Menu Button • Message • Scale • Scroll Bar • Text • Panel Window • Label Frame • Message Box

8B1-Ay 15/11/19

M. Kiruthika
15/11/19.

Faculty Incharge

Ms.S. Bharathi, AP/CSE
Ms. M. Kiruthika,AP/CSE

V. Shunmughavel
15/11/19.
HoD/CSE


Principal

Dr.V.Shunmughavel

Dr.D.Senthilkumaran

VAC ATTENDANCE (19-20) PYTHON WITH ADVANCED CONCEPTS

YEAR/BRANCH/SEMESTER: II/CSE/IV

S.NO	REGISTER NO	NAME OF THE STUDENT	12.07.2019	14.12.2019	21.12.2019	25.01.2020	02.01.2020	02.08.2020	01.04.2020	01.11.2020
1.	922118104001	Aravindhyan M	M	P	A	P	A	AB	P	M
2.	922118104002	Bhuyana Raja M	Chandru							
3.	922118104003	Chandra R	Chandru							
4.	922118104004	Deepthi Thejaswi E	Deepthi							
5.	922118104005	Dhanusuya V S	Dhanushya							
6.	922118104006	Fahima Rizwana K	Fahima							
7.	922118104007	Gayathri Rs	Gayathri							
8.	922118104008	Gokul S	Gokul							
9.	922118104009	Hari Prasad M	Hari							
10.	922118104010	Hinduja M	Hindu							
11.	922118104011	Indhumathi M	Indhumathi							
12.	922118104012	Janani M	Janani							
13.	922118104013	Janani M	Janani							
14.	922118104014	Jaya Priya G	Jaya							
15.	922118104015	Jegan M	Jegan							
16.	922118104016	Joaquin Raj S	Raj							
17.	922118104017	Jothika M	M. Jothika							
18.	922118104018	Keerthika R	Keerthika							
19.	922118104019	Kirthika K	AB							
20.	922118104020	Kirubha Shree V	AB							
21.	922118104021	Krishna V	Krishna							
22.	922118104022	Krishma Sr Ee K	Krishma							
23.	922118104023	Livin Iruthaya Raj	Livin							
24.	922118104024	Loyola I	Loyola							
25.	922118104025	Mari Vilgness R	Mari							
26.	922118104026	Nagamani N	Nagamani							
27.	922118104027	Nandhini S	S.Nandhini							
28.	922118104028	Nandhini T	T.Nandhini							
29.	922118104030	Navendran S	Navendran							
30.	922118104031	Naveen Kumar K	New							



**Department of Computer Science and Engineering
Value Added Course (2019-2020)**

Technology Training on Python with Advanced Concepts

Assessment Questions

Total: 30

1. How do I access a module written in Python from C?

2. What will be the output of the code below?

```
list = ['alfa', 'bravo', 'charlie', 'delta', 'echo']  
print list[10:]
```

3. How to Install Python?

4. Explain Scope in Python?

5. List the common built-in data types in Python?

6. Filter for rows showing Q3 and Q4 sales

Prepare the data by selecting only the sales for Q3 and Q4 across all the territories in 2021. For this, we will use the datetime package, which allows us to identify the year and quarter information from the order_date column.

```
fct_customer_sales_21 = fct_customer_sales[  
(fct_customer_sales.order_date.dt.quarter.isin([3,4])) &  
(fct_customer_sales.order_date.dt.year==2021)]
```

Faculty Co-Ordinators

HoD/CSE

Principal

VAC ASSESSMENT REPORT			
S.NO.	Name	TOTAL MARKS	ASSESSMENT MARKS
1	ARAVINDHAN M	30	30
2	BHUVANA RAJA M	30	25
3	CHANDRA R	30	26
4	DEEPTHI THEJASVI E	30	27
5	DHANUSIYA V S	30	25
6	FAHIMA RIZWANA K	30	29
7	GAYATHRI RS	30	28
8	GOKUL S	30	27
9	HARI PRA SAD M	30	25
10	H1NDUJA M	30	24
11	INDHUMATHI M	30	25
12	JANANI M	30	26
13	JANANI M	30	28
14	JAYA PRIYA G	30	30
15	JEGAN M	30	30
16	JOAQUIN RAJS	30	29
17	JOTFIKA M	30	30
18	KEERTH1KA R	30	30
19	K1RTHIKA K	30	30
20	KIRUBHA SHREE V	30	26
21	KRISHNA V	30	29
22	KRISHNA SR EE K	30	28
23	LIVIN IRUTHAYA RAJ	30	27
24	LOYOLA I	30	28
25	MARI VIGNESH R	30	25
26	NAGAMANIN	30	27
27	NANDHINI S	30	25
28	NANDHINI T	30	25
29	NAVEENDRANS	30	26
30	NAVEEN KUMAR K P	30	29
31	OVIYA PRIYADHARSHINI	30	28
32	POORNA KUMAR P	30	28
33	PRADEEPA R	30	30
34	PRIYADHARSHINI V P	30	27
35	PUNITH BABU M	30	28
36	SAJIHARINIKA S	30	28
37	SAMRITHA ATCHAYA P	30	28
38	SARANYA S	30	29
39	SARAVANAKUMARAN A	30	27
40	SHERLINE SNEHA M	30	27
41	SHREEVATHSAN	30	27
42	SRI VANIS	30	29

43	SRUTHI K	30	29
44	SUDHAN M	30	29
45	THARUNSHANKAR S	30	26
46	VIGNESH R	30	29
47	VIJAY G	30	28
48	VIJAYA SUB HA G	30	28
49	YOGALAKSHMI B	30	30

SBL/Mr.

Faculty Co-Ordinators

V. Sm

HoD/CSE

24
30

Maitlandya.
II - CSE

- 1) Module : PyImport - Import Module ("ModuleName");
 2) [];

Index Errors.

4) def myfunc();

```
x=200;
def myinnerfunc();
    print(x)
myinnerfunc();
```

5) str, int, float, dict, bool.

C282	Py16	2021-07-02	999	0146
C284	Py81	2021-07-07	500	0149
C285	Py89	2021-07-13	700	0150
C284	Py89	2021-07-15	189	0151

21
30

N. Nagamani
I.CSE

1. `module = pyImport - ImportModule("<modulenname>");`
`[];` Index error.

3. Step-1: python version to download

Step-2: click. Install (.exe)

Step-3: Installation in progress.

Step-4: Verify the python Installation

Start

"python --version"

python 3.11.3.

Step-5: Opening idle

4. Variable created inside a function belongs to local scope of the function.

```
def myfunc();
    x=300
    print(x)
    myfunc()
```

```
def myfunc();
    x=300
    def myinnerfunc();
        print(x)
        myinnerfunc()
    myfunc()
```

5. * bytearray, bytes,
* bool
* frozenset, set
* dict,
* range, tuple, list
* float, int, complex
* str

Cust-id	Prod-Sku-id	order-date	order-value	order-id
C282	P476	2021-07-02	999	0146
C284	P 487	2021-07-07	500	0149
C285	P 478	2021-07-12	700	0150
C287	P 489	2021-07-13	189	0151
C284	P 482	2021-07-15	725	0156



Department of Computer Science and Engineering

Feedback Form

Topic	Value Added course on "Python with Advanced Concepts"
Conducted by	Ms. S.Bharathi, AP/CSE Ms. Kiruthika, AP/CSE
Target Group	II year CSE Students
Date/Venue/Timing	14.12.2019 – 01.11.2020/CSE LAB 1

1. Content delivered by Resource person

- Excellent
 Good
 Fair

2. Resource person's knowledge on content delivery

- Excellent
 Good
 Fair

3. Response of the resource person to students queries

- Excellent
 Good
 Fair

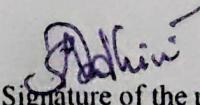
4. Whether the session was useful

- Excellent
 Good
 Fair

5. Overall experience

- Excellent
 Good
 Fair

6. Suggestions/ any comments


Signature of the participant



Department of Computer Science and Engineering

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 - Fair
2. Resource person's knowledge on content delivery
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 - Good
 - Fair
3. Response of the resource person to students queries
 - Excellent
 - Good
 - Fair
4. Whether the session was useful
 - Excellent
 - Good
 - Fair
5. Overall experience
 - Excellent
 - Good
 - Fair
6. Suggestions/ any comments

A handwritten signature enclosed in a circle.

Signature of the participant

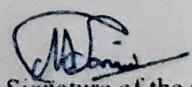


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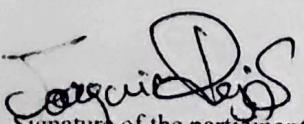
4. Whether the session was useful

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 Good
 Fair

5. Overall experience

- Excellent
 Good
 Fair

6. Suggestions/ any comments


Signature of the participant



SSMIET

Institute of Engineering and Technology

C E R T I F I C A T E O F P A R T I C I P A T I O N

This certificate is given to Ms/Mr ARAVINDHAN M of II - CSE has attended a
10 Weeks Technological Training of "Python with Advanced Concepts" in
SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY, DINDIGUL.



Instructor

AP/CSE



HOD/CSE



Principal

SSMIET



SSM

Institute of Engineering and Technology

CERTIFICATE OF PARTICIPATION

This certificate is given to Ms/Mr BHUANA RAJARAM of II - CSE has attended a 10 Weeks Technological Training of "Python with Advanced Concepts" in SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY, DINDIGUL.

A handwritten signature in blue ink, appearing to read 'Bhuvana Rajaram'.

A handwritten signature in blue ink, appearing to read 'V. Surya'.

A handwritten signature in blue ink, appearing to read 'A. Balaji'.

Instructor
AP/CSE

HOD/CSE
Principal
SSMIET



SSM

Institute of Engineering and Technology

CERTIFICATE OF PARTICIPATION

This certificate is given to Ms/Mr DEEPTHI THEJASWEE of II - CSE has attended
a 10 Weeks Technological Training of "Python with Advanced Concepts" in
SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY, DINDIGUL.

Instructor

AP/CSE

HOD/CSE

Principal

SSMIET



SSM

Institute of Engineering and Technology

CERTIFICATE OF PARTICIPATION

This certificate is given to Ms/Mr VIJAY G of II - CSE has attended a 10 Weeks Technological Training of "Python with Advanced Concepts" in SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY, DINDIGUL.

A handwritten signature in blue ink.

Instructor
AP/CSE

A handwritten signature in blue ink.

HOD/CSE

A handwritten signature in blue ink.

Principal
SSMIET



SSM

Institute of Engineering and Technology

CERTIFICATE OF PARTICIPATION

This certificate is given to Ms/Mr YOGALAKSHMIB of II - CSE has attended a
10 Weeks Technological Training of "Python with Advanced Concepts" in
SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY, DINDIGUL.

A handwritten signature in blue ink, appearing to read 'YOGALAKSHMIB'.

A handwritten signature in blue ink, appearing to read 'HOD/CSE'.

A handwritten signature in blue ink, appearing to read 'Principal'.

Instructor
AP/CSE

HOD/CSE
Principal
SSMIET