

REPORT OF THE VALUE ADDED COURSE: DATA ANALYSIS USING PYTHON

Registration and Confirmation Process

A registration form was prepared, the registration link was circulated over the students. Visited B.Sc CS and Mathematics & BCA (Shift-II) class rooms and explained the features and importance of the course. There were totally 51 students registered for the course using the Google registration forms. An orientation programme was conducted for the registered students, explained the information about the course content, timings, Tests and Assignments.

Inauguration

The course was inaugurated on 30-09-2022 at 11.30 AM. Prof. A. Charles HoD of Computer Science offer his felicitation. He encouraged and motivated the students to learn and to acquire skills making use of value added course offered by the computer science department.

The offline classes for the registered participants were conducted between 11:30 AM to 1:00 PM. There were 21 students accommodated in this batch. The course WhatsApp groups were created for the students to communicate the notices every now and then.

The course was conducted from 30th September 2022 to 9th November 2022 with the total duration of 35 hours. We had resource persons from within and outside college namely *Dr. P. Kalpana, Asst. Prof., Dept. of Computer Science, Christ Deemed to be University, Yeshwanthpur Campus, Bangalore, Karnataka, Dr. V. Arul Kumar, Asst. Prof., Dept. of Data Science, Dr. T. Kokilavani and Mrs. S. Josephine Theresa* from CS department along with the resource person cum. Coordinators of the course Dr. A. Aloysius and Dr. K. Maheswaran.

During the course, the attendance was monitored regularly. The course materials were shared using whatsapp groups. The overall feedback of the course also collected during valedictory session. The students felt that the course was very much useful to enrich their knowledge.

Evaluation:

After completing the course for 35 hours, two examination was conducted for 80 marks and assignment was given for 20-marks. The students having more than 60% of attendance and 45% of marks in the tests will receive their course completion certificate. The student will awarded *Grades* based on their marks. There are 19 students out of 21 students were completed the course as per criteria.

Valediction

The valediction function of the value added course was held on 09-11-2022 at 10. 30 AM. Dr. A. Aloysius welcomed the gathering and summarised the report the value added course: Data Analysis using Python. Prof. A. Charles and Dr. D. Ravindran delivered Valedictory Address and appreciate the effort taken to conduct the value added course. The meeting came to an end with the thanking note of the course coordinator Dr. K. Maheswaran at 11. 15 AM.



Dr A.ALOYSIUS, M.Sc., M.Phil., PGDICT, SET, Ph.D.
Assistant Professor in Computer Science
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St. Joseph's College (Autonomous)
Tiruchirappalli - 620 002



Head of the Department
Department of Computer Science
St. Joseph's College(Autonomous)
Tiruchirappalli-620 002.

COURSE CODE: 21CSVAC101

Hrs. : 35

Value Added Course: DATA ANALYTICS USING PYTHON

COURSE OBJECTIVE:

The Students to be able to understand and use python programming for solving data science problems.

Unit-I:

Introduction to Python Programming: History – Variable creation - Arithmetic and logical operators - Data types and associated operations in Python - **Introduction to Python Spyder (Tool):** Basics of Spyder- Setting working Directory - Creating and saving a script file - File execution, clearing console, removing variables from environment, clearing environment - Commenting script files.

Unit-II

Control structures: Introduction - if-else family - for loop - for loop with if break- while loop – Functions and its types.

Unit- III

Sequence data types: Fundamentals - Strings - Lists – Arrays- Tuples - Dictionary - Sets - Range- Introduction to NumPy- ndarray.

Unit- IV:

Pandas DataFrame and DataFrame related operations: Reading files - Exploratory data analysis - Data preparation and preprocessing

Unit- IV:

Data visualization using Matplotlib libraries - Scatter plot -Line plot -Bar plot –Case Study using Classification – Regression techniques.

BOOKS FOR REFERENCE:

1. Jake Vander Plas, "Python Data Science Handbook: Essential Tools for Working with Data", O'Reilly Media, 2016.



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**SHORT TERM SKILL ENHANCEMENT
VALUE ADDED COURSE: DATA ANALYSIS USING PYTHON**

LIST OF REGISTERED PARTICIPANTS

Dates: 30-09-2022 TO 09-11-2022

S. No.	D. No.	NAME
1	20UMA503	ADAM JERRY S
2	20UMA505	GLADINA V
3	20UMA516	SNEHA
4	20UMA527	MOUNESH S
5	20UMA528	JEEVANANTHAM .S
6	20UMA533	THIYAGU M
7	22PCS912	JEEVAN SUVISHESH J
8	22PCS935	S.SNEGADEVI
9	22UBC530	ASHWIN.S
10	22UBC545	M.RIDEN TIDO
11	22UBC556	ALICE THEOPHUS L
12	22UBC607	JUSTIN MATHEW S
13	22UCS516	SESURAAJ.Y
14	22UCS521	DARWIN INFANT RAAJ P
15	22UCS527	JASON DANIEL
16	22UCS540	GEORGE PAUL TONY.C
17	22UCS565	P. SHREE HARI
18	22UCS570	N .MITHULESH
19	22UCS719	B. DENIS RAJ
20	22UCS725	FRANCIS ROJER. S
21	22UCS762	THOMAS


Head of the Department
Department of Computer Science
(Autonomous)

INAUGURAL FUNCTION

Department of Computer Science St. Joseph's College (Autonomous)

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College with Potential for Excellence by UGC

Special Heritage Status Awarded by UGC
DBT-STAR & DST-FIST Sponsored College

Tiruchirappalli, Tamil Nadu, India



**The Staff and Students of the
Department Invites You all for**

Inaugural Function of Data Analysis using Python

(A Short Term Skill Enhancement Value Added Course)

Date : 30-09- 2022

Time : 11.30 am

Venue :

MCA Seminar Hall

**Welcome Address &
Dynamics of the Course**

Dr. A. Aloysius

Course Coordinator

Felicitation by

Prof. A. Charles

*Head, Department of Computer Science.
St. Joseph's College (Autonomous),
Trichy - 620002.*

Vote of Thanks

Dr. K. Maheswaran,

Course Coordinator

All Are Invited

VALEDICTORY FUNCTION –INVITATION

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Tiruchirappalli, Tamil Nadu, India

The Staff & Students of The Department Cordially Invite you to the

VALEDICTORY FUNCTION ON



DATA ANALYSIS USING PYTHON



(A Short Term Skill Enhancement Value Added Course)

Date: 09.11.2022 (Wednesday)

Time: 10.30 AM

◆ MCA SEMINAR HALL

Felicitations By

Dr. D. Ravindran

Vice-Principal (Shift-I)

St. Joseph's College (Autonomous) Trichy - 620002.

Prof. A. Charles

Head, Department of Computer Science,

St. Joseph's College (Autonomous) Trichy - 620002.

Welcome address &
summary of the course By

Dr. A. Aloysius

Course Coordinator

Vote of Thanks
By

Dr. K. Maheswaran

Course Coordinator

Valedictory Address –Photo Gallery


Dr. D. Ravindran and Prof. A. Charles deliverd Valedictory Address




**Dr. A. Aloysius and Dr. K. Maheswaran Course Coordinators delivering
Welcome address and Vote of Thanks**

ATTENDANCE SHEET


Theory / Practical		Theory	Theory	Theory	Theory	Practical	Theory	Theory	Practical	Theory	Theory
Duration (in hrs.)		1.5	2	1.5	2	1.5	2	1.5	2	1.5	1.5
Date		21-10-2022	22-10-2022	23-10-2022	26-10-2022	28-10-2022	31-10-2022	02-11-2022	03-11-2022	04-11-2022	09-11-2022
S. No.	Reg. No.										
1	20UCS762	P	P	P	P	P	P	P	P	P	P
2	20UMA503	P	P	P	P	P	P	P	P	P	P
3	20UMA505	P	A	P	P	P	P	P	P	P	P
4	20UMA516	P	P	P	P	P	P	P	P	P	P
5	20UMA527	P	P	P	P	A	P	P	A	P	P
6	20UMA528	P	P	P	P	P	P	P	P	P	P
7	20UMA533	P	P	P	P	P	P	P	P	P	P
8	22PCS912	A	P	P	P	P	A	P	P	P	P
9	22PCS935	P	P	P	P	P	P	P	P	P	A
10	22UBC530	P	P	P	P	P	P	P	P	P	P
11	22UBC545	P	P	P	P	P	P	P	P	P	P
12	22UBC556	P	P	P	P	P	P	P	P	P	P
13	22UBC607	A	A	A	A	A	A	A	A	A	A
14	22UCS516	P	P	P	P	P	P	P	P	P	P
15	22UCS521	P	P	P	P	P	P	P	P	P	P
16	22UCS527	P	P	P	P	P	P	P	P	P	P
17	22UCS540	P	P	P	P	P	P	P	P	P	P
18	22UCS565	P	P	P	P	P	P	P	P	P	P
19	22UCS570	P	P	P	P	P	P	P	P	P	P
20	22UCS719	P	P	P	P	P	P	P	P	P	P
21	22UCS725	P	P	P	P	P	P	P	P	P	P



 Signature of the Staff
 (Dr. K. Maheswarar)


 Head of the department
 (Prof. A. Charles)

ATTENDANCE SHEET

Theory / Practical		Theory	Theory	Theory	Theory	Practical	Theory	Theory	Practical	Theory	Theory
Duration (in hrs.)		2	1.5	1.5	1.5	2	2	1.5	2	1.5	2
Date		30-09-2022	01-10-2022	03-10-2022	10-10-2022	12-10-2022	13-10-2022	14-10-2022	17-10-2022	18-10-2022	19-10-2022
S. No.	Reg. No:										
1	20UCS762	P	P	P	P	P	P	P	P	P	P
2	20UMA503	P	P	P	P	P	P	P	P	P	P
3	20UMA505	P	A	P	P	P	P	P	P	P	P
4	20UMA516	P	P	P	P	P	P	P	P	P	P
5	20UMA527	P	P	P	P	A	P	P	A	P	P
6	20UMA528	P	P	P	P	P	P	P	P	P	P
7	20UMA533	P	P	P	P	P	P	P	P	P	P
8	22PCS912	A	P	P	P	P	A	P	P	P	P
9	22PCS935	P	P	P	P	P	P	P	P	P	A
10	22UBC530	P	P	P	P	P	P	P	P	P	P
11	22UBC545	P	P	P	P	P	P	P	P	P	P
12	22UBC556	P	P	P	P	P	P	P	P	P	P
13	22UBC607	P	A	A	A	A	A	A	A	P	A
14	22UCS516	P	P	P	P	P	P	P	P	P	P
15	22UCS521	P	P	P	P	P	P	P	P	P	P
16	22UCS527	P	P	P	P	P	P	P	P	P	P
17	22UCS540	P	P	P	P	P	P	P	P	P	P
18	22UCS565	P	P	P	P	P	P	P	P	P	P
19	22UCS570	P	P	P	P	P	P	P	P	P	P
20	22UCS719	P	P	P	P	P	P	P	P	P	P
21	22UCS725	P	P	P	P	P	P	P	P	P	P


 Signature of the Staff
 (Dr. K. Maheswaran)


 Head of the department
 (Prof. A. Charles)

DEPARTMENT OF COMPUTER SCIENCE

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TIRUCHIRAPPALLI - 620002



CERTIFICATE

This certificate is awarded to

JASON DANIEL [22UCS527]

for successfully completing the course

“A Short Term Skill Enhancement

Value Added Course : Data Analysis using Python”

organized by Department of Computer Science

from **30-09-2022 to 09-11-2022** with **B** Grade .

Course Coordinators

Dr. A. Aloysius & Dr. K. Maheswaran

Head of the Department

Prof. A. Charles

Principal

Rev. Dr. M. Arockiasamy Xavier SJ

(GRADE : above 90 = A++ ; 75 to 90 = A+ ; 61 to 74 = A ; 50 to 60 =B)

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TIRUCHIRAPPALLI - 620002

CERTIFICATE

This certificate is awarded to

S.SNEGADEVI [22PCS935]

for successfully completing the course

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from **30-09-2022 to 09-11-2022** with **A+** Grade.



Course Coordinators

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TIRUCHIRAPPALLI - 620002



CERTIFICATE

This certificate is awarded to

SESURAAJY (22UCS516)

for successfully completing the course

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from **30-09-2022 to 09-11-2022** with **A** Grade .

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