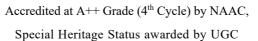


St. Joseph's College (Autonomous)



Tiruchirappalli - 620 002, India.



DATASCIENCE ASSOCIATION

Department of Data Science

ST.JOSEPH'S COLLEGE (AUTONOMOUS)

ACCREDITED AT A++ BY NAAC (CYCLE IV)
COLLEGE WITH SPECIAL HERITAGE STATUS
COLLEGE WITH POTENTIAL FOR EXCELLENCE
TRICHY, TAMIL NADU

VALUE ADDED COURSE ON " DATA SCIENCE TOOLS"

PROGRAMME COORDINATOR

Dr. A. Beatrice Dorothy

Assistant Professor
Department of Data Science
St.Joseph's College (Autonomous)
Trichy



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Tiruchirappalli – 620 002, India.

Report on" Value-Added Courses for the academic year 2022-2023" **DATE FROM:** 02/08/2022 To: 09/11/2022 Name of the Dr. A. Beatrice Dorothy **Course and** Data science tools Coordinator No. of Students 59 **Enrolled** Mode (Online/Offline Offline **Blended**) No. of Times **Duration of** offered **Course Code** 21PDS3VAC7 the Course 60 during the (in hrs) Same Year



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Report on Value Added Programme

Data science tools

Course Code: 21PDS3VAC7 Academic Year: 2022-2023

Course in-charge: Dr. A. Beatrice Dorothy

Semester: III

Objective:

To nurture the students with various tools used in the industry in regards with the field data science

Report:

- The Department of Data Science for the academic year (2022–2023) organized a Value-Added Programme "Data science tools" for the II PG students.
- The course started by 2nd August 2022 and ended on 9th November 2022 .A Total of 59 students enrolled and completed the "Data science tools" Course handled by Dr. A. Beatrice Dorothy, Assistant Professor, Department of Data Science, St. Joseph's College (Autonomous), Tiruchirappalli.
- The flow of the course mainly concentrates on amplifying the abilities of the students in concern with the various tools and software like Microsoft Excel, Talend, Informatica, QlikView
- The fundamentals and installation procedure of the respective tools were provided
- The course aims to create a greater understanding about the tools and its functions to bring up the efficient usage of it in the workplace and in industry
- Hand-on training were provided and assessments were held.

Signature of the Head

HOD
Department of Data Science
St. Joseph's College (Autonomous)
Trichy - 620 002.



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SYLLABUS



21PDS2VAC4

Data Visualization

Course Outcomes

On successful completion of this course, the students will be able to

- 1. Recall the basic concepts of Data Connectivity.
- 3. Examine the features of Power BI and Tableau.
- 3. Perform Data manipulation using Power BI and Tableau.
- 4. Interpret the Mappings and Workflows of Power BI and Tableau.
- 5. Evaluate the performance of the model.
- 6. Visualize the data to get the meaningful insights.

 $Unit - I ag{12 hrs}$

Introduction to Power BI - Features of Power BI - Building Blocks of Power BI - Power BI Tools - Installing the Power BI Desktop App - Connecting to Data Sources - Getting Data from Excel Files - Using Power BI Desktop - Installing the Power BI Gateway.

Unit – II (12 hrs)

Getting Online Data - Getting Data from Facebook - Getting Data from other Web Sources - Getting Data from Twitter - Creating Datasets - Creating a Dataset from a Single Data source - Creating a Dataset from a Multiple Data Sources - Refreshing Data in a Dataset - Creating Visualizations from Datasets - Creating Reports - Creating Dashboards.

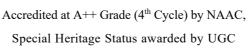
Unit – III (12 hrs)

Introduction to Tableau Desktop - Analyzing Data - Connecting to your data in Tableau - Understanding Tableau worksheets - Starting to analyze data - Enhancing the analysis - Creating Dashboards - Understanding the Basics - Working with Dimensions and Measures





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Unit – IV (12 hrs)

Visualizing Data - Using the Shelves and Cards - The Columns shelf - The Rows shelf - Using a quick filter to exclude data - The Filters shelf - Pages shelf - Marks card - Modifying the View - Fitting the space - Adding annotations - Adding mark labels - Understanding the Tableau Desktop Environment.

Unit – V (12 hrs)

Understanding the Chart Options - Viewing Your Data - Adding Worksheets - Creating Dashboards

PHOTOGRAPHS





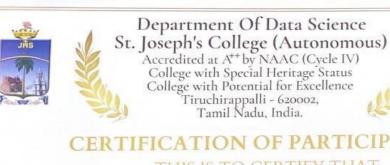
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CERTIFICATES:



CERTIFICATION OF PARTICIPATION THIS IS TO CERTIFY THAT

SHIVANI . A

Participated in the value added course " DATA SCIENCE TOOLS " during the period from 02/08/2022 to 09/11/2022 conducted by the Department of Data Science, St. Joseph's College (Autonomous), Tiruchirappalli - 620002.

DR. A. BEATRICE DOROTHY

Programme Coordinator



DR. L. AROCKLAM Head of the Department





Department Of Data Science St. Joseph's College (Autonomous)

Accredited at A⁺⁺ by NAAC (Cycle IV) College with Special Heritage Status College with Potential for Excellence Tiruchirappalli - 620002, Tamil Nadu, India.





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Programme Coordinator

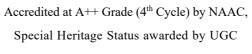


DR. L. AROCKIAM

Head of the Department



St. Joseph's College (Autonomous)





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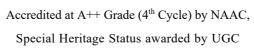
ATTENDANCE SHEET

I M. Sc. Data Science (2022-24) Batch

NO	D. NO.	NAME	SIGNATURE
1	22PDS801	DEEPAN P	14
2	22PDS802	CHARULATHA D	Chan D
3	22PDS803	NISHIN JERRY X I	Nelminier
4	22PDS804	NIRMAL JOEL X I	X.I. Named Har
5	22PDS805	HARIVIGNESH S	d. Howely
6	22PDS806	MADHAVAN S A	globe
7	22PDS807	HATLIN JOHEIT J A	B
8	22PDS808	EDWIN PRAKASH J	Edmin
9	22PDS809	SUJITH NAMASIVAYAM P	
10	22PDS810	AARTHI S	southi
11	22PDS811	KANIMOZHI A	A. Kail
12	22PDS812	NIXON L	neusien 1



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13	22PDS813	LEANDER PIOUS X	Zul.
14	22PDS814	JESTIN.S	OS. Tity
15	22PDS815	BHUVANA N	Comment.
16	22PDS816	ARUN PRASATH	I. Augusto
17	22PDS817	SARA ROVENA S	s. sava Rovera.
18	22PDS818	AGNES SALOMI TANIA P	Aug 2/ July
19	22PDS819	DIVINE REGAN A	to De Pol
20	22PDS820	ANCELIN GENO A	Achelin Guns.
21	22PDS821	MICHEAL ANTONY A	A. Michael Artony
22	22PDS822	CINCIYA THOMAS MELATHIL	·
23	22PDS824	JACKSHINI.S	tackshing.
24	22PDS825	JOE AROWIN A	Q1.1
25	22PDS826	DEVADHARSHINI R	w. Dure
26	22PDS827	DOUGLAS JAMES P	Janes
27	22PDS828	MARTIN PRABHU S	8 Harspoll
28	22PDS829	MERWIN RAGUL I	TO DI
29	22PDS830	JANANIMEENA R	Q. Jarans
30	22PDS831	SHIVASHANKARI E	accet to
31	22PDS832	JASMINE A B	Durin
32	22PDS833	SIVAPRIYA K	8 mpig
33	22PDS834	JOSEPH T J	Onth
34	22PDS835	INFANT JEYABAL A	A. Futu
35	22PDS837	DHANASEKAR D	Dhansekar
36	22PDS838	STEPHEN RAJ S	S. 86 2
37	22PDS839	M.LEENA	M. Leine
38	22PDS840	ANUBHARATHI P	Pohleri
39	22PDS841	ESTHER JENIFER P	P. Cin
40	22PDS842	SUMAIYA SULTAN	Dumaija
41	22PDS843	ESWAR E	E. Enwag
42	22PDS844	MUGISHA CIELLA DANILLA	Currie



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43	22PDS845	NANDINI K	K. Karoli.
44	22PDS846	PRASANTH R	Pac.P.
45	22PDS847	UDHAYA P	Puthaye
46	22PDS849	PADMAVATHI S	8. Comedy
47	22PDS850	NIRANJANA	A.Kt
48	22PDS851	AHAASRAJ RR	Alar 75
49	22PDS852	GOBINATH T	Gladed.
50	22PDS853	KULARANJITH K	V.K.l.
51	22PDS854	RAMANAN P	Come &
52	22PDS857	PRAVEEN KUMAR P	Breaker
53	22PDS858	PILAVENDRAN A	They
54	22PDS859	AMALORPAVA BELCIYA S	8. A.S
55	22PDS860	JOE NICKSON V	MER
56	22PDS862	LILLY J S	Octivi
57	22PDS863	INFANT JEGAN FERNANDO II	(Det)
58	22PDS864	HARIHARAN R	01-76-5
59	22PDS865	RITHIC*T	and