



Department of Data Science
St. Joseph's College (Autonomous)
Accredited at A++ Grade (4th Cycle) by NAAC,
Special Heritage Status awarded by UGC
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 " PROGRAMMING SKILLS"

PROGRAMME COORDINATOR

Dr. V. Arul Kumar

Assistant Professor

Department of Data Science

St. Joseph's College (Autonomous)

Trichy



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Report on” Value-Added Courses for the academic year 2022-2023”

DATE FROM:	02/08/2022		To:	09/11/2022	
Name of the Course and Coordinator	Programming Skills			Dr. V. Arul Kumar	
No. of Students Enrolled	59				
Mode (Online/Offline / Blended)	Offline				
Course Code	21PDS1VAC2	Duration of the Course (in hrs)	60	No. of Times offered during the Same Year	1



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Report on Value Added Programme “Programming Language”

Course Code: 21PDS1VAC2

Course in-charge: Dr. V. Arul Kumar

Academic Year: 2022-2023

Semester: I

Objective:

To enhance the technical coding skills aimed at nurturing the career and future development

Report:

- The Department of Data Science for the academic year (2022 – 2023) organized a Value-Added Programme “**Programming Language**” for the I PG students.
- The course started by 2nd August 2022 and ended on 9th November 2022
- Total of 59 students enrolled and completed the “Programming Language” Course handled by Dr. V. Arul Kumar, Assistant Professor, Department of Data Science, St. Joseph's College (Autonomous), Tiruchirappalli
- The course offers the beneficiaries the whole package of coding skills in programming languages like C and Python
- The students were given a deep understanding about the fundamentals and logics behind coding
- Real time problems and case studies were taken and solutions were developed
- The programme offered the skills in respect with the current industry trends and culture

Signature of the Head

HOD
Department of Data Science
St. Joseph's College (Autonomous)
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PRORAMMING SKILLS

Semester I
21PDS1VAC2

Hours/Week: 4

Course Outcomes

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

- Identify situations where computational methods and computers would be useful.
- Identify a computational problem and abstract the programming task involved.
- Approach the programming tasks using techniques learned and write pseudo-code.
- Choose the right data representation formats based on the requirements of the problem.
- Use the comparisons and limitations of the various programming constructs and choose the right one for the task in hand.
- Identify tasks in which the numerical techniques learned are applicable and apply them to write programs

Unit - I

12 hrs

Introduction to Programming - Constants, Variables & Data Types - Operators & Expressions - Managing Input & output operations

Unit - II

12 hrs

Decision Making – Branching & Looping – Arrays - Handling of Character Strings - Functions

Unit - III

12 hrs

Storage Classes - Structures and Unions – Pointers - Dynamic Memory Allocation and Link List- File Processing

Unit - IV

12 hrs

Introduction to Python – Data Types, Expressions, Statements – Control Flow, Functions, Strings – Lists, Tuples, Dictionaries

Unit – V

12 hrs

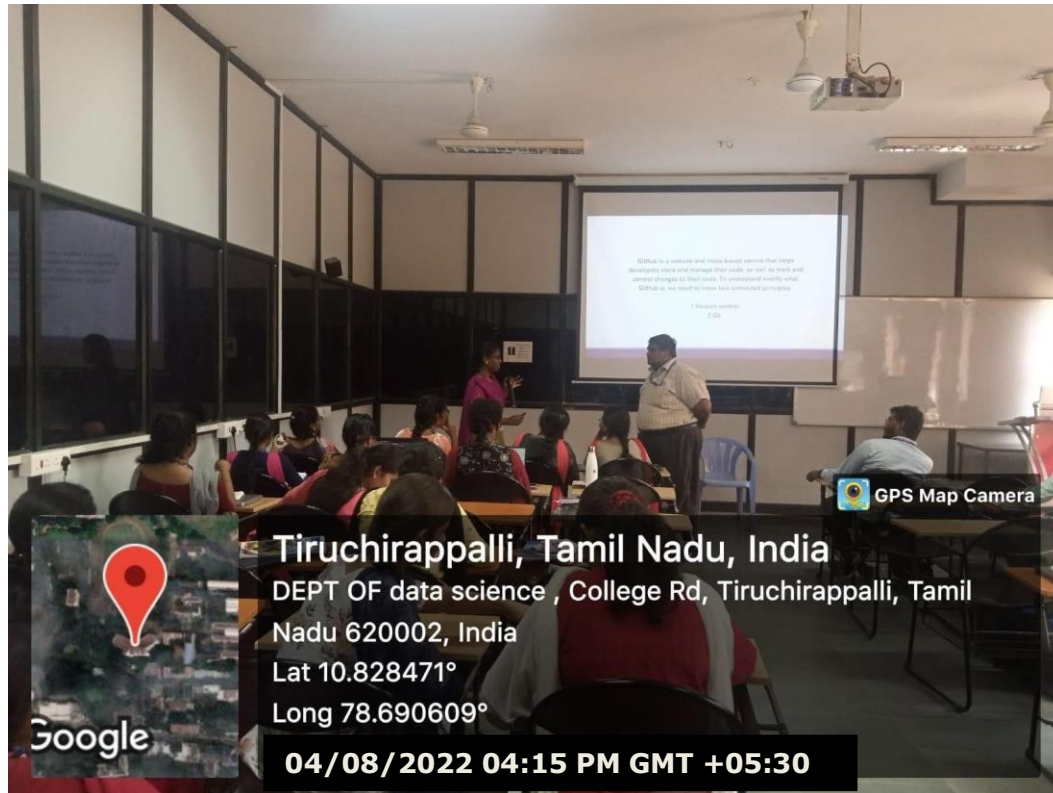
Files – Modules – Packages – Python OOPs Concepts



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PHOTOGRAPHS











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
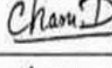
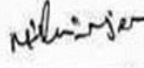
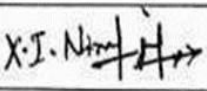
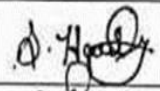
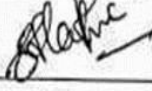

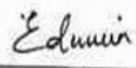
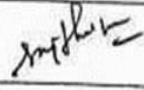
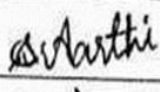
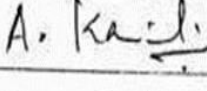
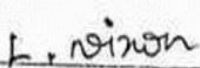
CERTIFICATES:

	<p>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.</p>	
<p>CERTIFICATION OF PARTICIPATION</p> <p>THIS IS TO CERTIFY THAT</p>		
<p>_____ <u>KANIMOZHI A</u> _____</p>		
<p>Participated in the value added course " PROGRAMMING SKILLS " 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.</p>		
<p>_____ <u>V. Arul Kumar</u> _____ DR. V. ARUL KUMAR Programme Coordinator</p>		<p>_____ <u>L. Arockiam</u> _____ DR. L. AROCKIAM Head of the Department</p>

	<p>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.</p>	
<p>CERTIFICATION OF PARTICIPATION</p> <p>THIS IS TO CERTIFY THAT</p>		
<p>_____ <u>Lilly J.S</u> _____</p>		
<p>Participated in the value added course " PROGRAMMING SKILLS " 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.</p>		
<p>_____ <u>V. Arul Kumar</u> _____ DR. V. ARUL KUMAR Programme Coordinator</p>		<p>_____ <u>L. Arockiam</u> _____ DR. L. AROCKIAM Head of the Department</p>

ATTENDANCE SHEET

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

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

13	22PDS813	LEANDER PIOUS X	<i>Leander Pious X</i>
14	22PDS814	JESTIN.S	<i>J. Jestin</i>
15	22PDS815	BHUVANA N	<i>Bhuvana N</i>
16	22PDS816	ARUN PRASATH	<i>Arun Prasath</i>
17	22PDS817	SARA ROVENA S	<i>S. Sara Rovenas</i>
18	22PDS818	AGNES SALOMITANIA P	<i>Agnes Salomitanian P</i>
19	22PDS819	DIVINE REGAN A	<i>D. Divine Regan A</i>
20	22PDS820	ANCELIN GENO A	<i>Ancelin Genos</i>
21	22PDS821	MICHEAL ANTONY A	<i>A. Michael Antony</i>
22	22PDS822	CINCIYA THOMAS MELATHIL	<i>C. Cinciya Thomas Melathil</i>
23	22PDS824	JACKSHINI.S	<i>Jackshini S</i>
24	22PDS825	JOE AROWIN A	<i>J. Arowin A</i>
25	22PDS826	DEVADHARSHINI R	<i>Devadharshini R</i>
26	22PDS827	DOUGLAS JAMES P	<i>D. Douglas James P</i>
27	22PDS828	MARTIN PRABHU S	<i>M. Martin Prabhu S</i>
28	22PDS829	MERWIN RAGUL I	<i>M. Merwin Ragul I</i>
29	22PDS830	JANANIMEENA R	<i>J. Jananimeena R</i>
30	22PDS831	SHIVASHANKARI E	<i>S. Shivashankari E</i>
31	22PDS832	JASMINE A B	<i>J. Jasmine A B</i>
32	22PDS833	SIVAPRIYA K	<i>S. Sivapriya K</i>
33	22PDS834	JOSEPH T J	<i>J. Joseph T J</i>
34	22PDS835	INFANT JEYABAL A	<i>A. Infant Jeyabal A</i>
35	22PDS837	DHANASEKAR D	<i>D. Dhasekar</i>
36	22PDS838	STEPHEN RAJ S	<i>S. Stephen Raj S</i>
37	22PDS839	M.LEENA	<i>M. Leena</i>
38	22PDS840	ANUBHARATHI P	<i>P. Anubharathi</i>
39	22PDS841	ESTHER JENIFER P	<i>P. Esther Jenifer</i>
40	22PDS842	SUMAIYA SULTAN	<i>S. Sumaiya Sultan</i>
41	22PDS843	ESWAR E	<i>E. Eswar</i>
42	22PDS844	MUGISHA CIELLA DANILLA	<i>M. Mugisha Ciella Danilla</i>

43	22PDS845	NANDINI K	K. R. Srinivasan
44	22PDS846	PRASANTH R	R. R. R.
45	22PDS847	UDHAYA P	P. Udhaya
46	22PDS849	PADMAVATHI S	S. Padmavathi
47	22PDS850	NIRANJANA	A. K. R.
48	22PDS851	AHAASRAJ RR	A. R. R.
49	22PDS852	GOBINATH T	T. G. S.
50	22PDS853	KULARANJITH K	K. K. S.
51	22PDS854	RAMANAN P	P. Raman
52	22PDS857	PRAVEEN KUMAR P	P. Praveen
53	22PDS858	PILAVENDRAN A	A. P. S.
54	22PDS859	AMALORPAVA BELCIYA S	S. A. S.
55	22PDS860	JOE NICKSON V	V. N. S.
56	22PDS862	LILLY J S	S. J. S.
57	22PDS863	INFANT JEGAN FERNANDO H	H. J. S.
58	22PDS864	HARIHARAN R	R. H. S.
59	22PDS865	RITHICK T	T. R. S.