



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 " SMART AND INNOVATIVE TECHNOLOGIES"

PROGRAMME COORDINATOR

Dr. M. Kriushanth

Dr. K. Subash

Assistant Professors

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”

Report on” Value-Added Courses for the academic year 2022-2023”					
DATE FROM:	12/12/2022	To:	31/03/2023		
Name of the Course and Coordinator	Smart and Innovative Technologies		Dr. M. Kriushanth and Dr. K. Subash		
No. of Students Enrolled	59				
Mode (Online/Offline / Blended)	Offline				
Course Code	21PDS2VAC3	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

Smart and Innovative Technologies

Course Code: 21PDS2VAC3

Academic Year: 2022-2023

Course in-charge: Dr. M. Kriushanth
Dr. K. Subash

Semester: II

Objective:

- To enable students to learn the innovations in computer science fields.

Report:

- The Department of Data Science for the academic year (2022– 2023) organized a Value-Added Programme “**Smart and Innovative Technologies**” for the I PG students.
- The course started by 12th December 2022 and ended on 31st March 2023
- Total of 59 students enrolled and completed the “Smart and Innovative Technologies” Course handled by : Dr. M. Kriushanth ,Assistant Professor and Dr. K. Subash , Programmer cum teaching Assistant, 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 innovation and application of internet of things.
- The course aims to create a greater understanding about IOT and its functions to bring up the efficient usage of it .
- It focused on the tips and strategies to be followed to bring out the creativity of the students .

Signature of the Head

HOD
Department of Data Science
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Semester II

Smart and Innovative Technologies

Hours/Week: 6

21PDS2VAC3

Course Outcomes

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

1. Learn the innovations in computer science fields.
2. Think creatively.
3. Learn recent software used for recent innovations.
4. Select the appropriate technologies for real time applications.
5. Learn the hardware for making innovative projects.
6. Create new innovative projects.

Unit-I:

(12 hrs)

Innovation: Needs of innovation–Innovations in Computer science–Impacts of innovations –
Technologies for Innovation

Unit-II:

(12 hrs)

Software Tools: Arduino – Think Speak - Cayenne

Unit-III:

(12 hrs)

Hardware Tools: Arduino Uno–Arduino Nano–Arduino Mega-NodeMCU- Raspberrypi

Unit-IV:

(12 hrs)

Smart Applications: Smart Home-Smart class room-Smart city-Smart agriculture-Smart health care

Unit-V:

(12 hrs)

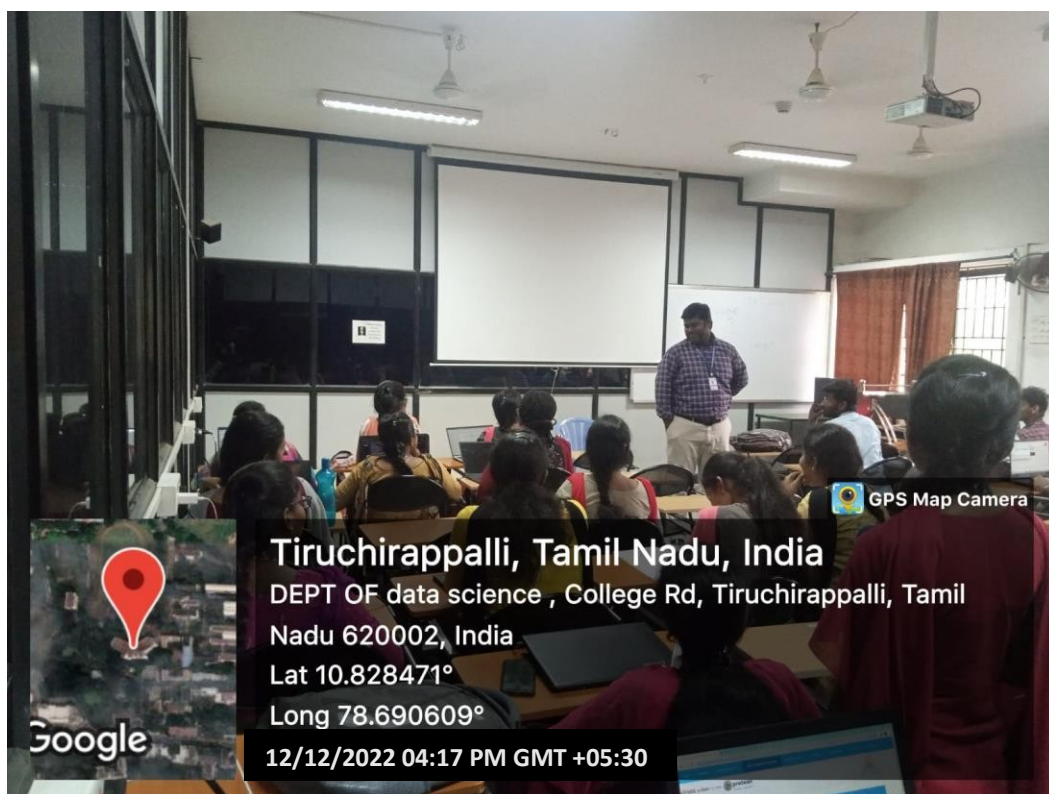
Smart and innovative projects by the students



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PHOTOGRAPHS









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CERTIFICATES:




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College with Potential for Excellence
Tiruchirappalli - 620002,
Tamil Nadu, India.

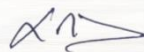



CERTIFICATION OF PARTICIPATION
THIS IS TO CERTIFY THAT
CHARULATHA D



Participated in the value added course " **Smart and Innovative Technologies** " during the period from 12/12/2022 to 31/03/2023 conducted by the Department of Data Science, St. Joseph's College (Autonomous), Tiruchirappalli - 620002.





DR. M. KRIUSHANTH
Programme Coordinator



DR. L. AROCKIAM
Head of the Department




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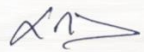



CERTIFICATION OF PARTICIPATION
THIS IS TO CERTIFY THAT
MADHAVAN S A

Participated in the value added course " **Smart and Innovative Technologies** " during the period from 12/12/2022 to 31/03/2023 conducted by the Department of Data Science, St. Joseph's College (Autonomous), Tiruchirappalli - 620002.



DR. M. KRIUSHANTH
Programme Coordinator



DR. L. AROCKIAM
Head of the Department



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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	



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



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