



**St. Joseph's College of Arts & Science (Autonomous)**  
Cuddalore – 607 001, Tamil Nadu.

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Website: www.sjctnc.edu.in



**FDPs CONDUCTED BY THE COLLEGE**

St. Joseph's College of Arts and Science (Autonomous) Cuddalore-1



in  
Collaboration  
with  
Spoken Tutorial, IIT Bombay  
Organizes



# FACULTY DEVELOPMENT PROGRAMME

# FACULTY DEVELOPMENT PROGRAMME

ON

**COMPUTER VISION USING PYTHON –JUPYTER (OPENCV)[online]**

PG Department of Computer Applications, St. Joseph's College of Arts and Science (Autonomous), Cuddalore-1 in collaboration with Spoken Tutorial, IIT Bombay organized a Faculty Development Programme on Computer Vision using Python-Jupyter (OpenCV) on 1<sup>st</sup> and 2<sup>nd</sup> of May,2020. About 72 Staff members from our college attended the online FDP. The prerequisite sessions commenced on 26<sup>th</sup> April ,2020 and it was completed on 29<sup>th</sup> April,2020. Mr. A.John Pradeep Ebenezer, HOD, Computer Applications was the resource person for the prerequisite sessions. The Classes delivery mode for the prerequisite session was through Skype, Whatsapp and E-Lecture (handouts as pdf). At the end of the day Online test was conducted through Google Forms. On 1<sup>st</sup> and 2<sup>nd</sup> of May, 2020 the classes deliver mode was through video tutorial from Spoken Tutorial IIT Bombay.

Participants registration link

<https://forms.gle/xTpNmz2q7XDCYm4P8>

**ST. JOSEPH'S COLLEGE OF ARTS AND SCIENCE (AUTONOMOUS), CUDDALORE-1**  
**IN**  
**COLLABORATION WITH**  
**SPOKEN TUTORIAL-IIT-BOMBAY**  
**FACULTY DEVELOPMENT PROGRAMME [ONLINE] ON COMPUTER VISION –PYTHON-**  
**JUPYTER (OPENCV)**  
**May 1<sup>st</sup> 2020 & May 2<sup>nd</sup> 2020**  
**FDP SESSIONS**

Presentations & PDF Handouts

Video Lecture and Skype Meetings

S.No	Date	Time	Topic	Classes Delivery Modes
<b>PREREQUISITE SESSION IN PROGRESS</b>				
1	26/4/2020	9AM-12 NOON	Installation of Anaconda Distribution	<b>E-Lecture (Presentation and pdf Handouts)</b> <b>Resource Person</b> A. John Pradeep Ebenezer Asst. Prof. and Head PG Dept. of Computer Applications St. Joseph's College, Cuddalore-1
2	26/4/2020	1PM-4 PM	Introduction to PIP and Basic Programming using Python	<b>E-Lecture (Presentation and pdf Handouts)</b> <b>Resource Person</b> A. John Pradeep Ebenezer Asst. Prof. and Head PG Dept. of Computer Applications St. Joseph's College, Cuddalore-1
3	26/4/2020	5PM-6PM	Online Test	<b>Google Forms</b>
4	27/4/2020	9AM-12 NOON	Basic Programming using Python (Contd..)	<b>E-Lecture (Presentation and pdf Handouts)</b> <b>Resource Person</b> A. John Pradeep Ebenezer Asst. Prof. and Head PG Dept. of Computer Applications St. Joseph's College, Cuddalore-1
5	27/4/2020	1PM-4 PM	Image Processing using Python	<b>E-Lecture (Presentation and pdf Handouts)</b> <b>Resource Person</b> A. John Pradeep Ebenezer Asst. Prof. and Head PG Dept. of Computer Applications St. Joseph's College, Cuddalore-1
6	27/4/2020	5PM-7 PM	Image Processing Challenge	<b>Submission through</b>

				<b>WhatsApp</b>
7	28/4/2020	9AM-12 NOON	Image Processing using Python (Contd...)	<b>E-Lecture (Presentation and pdf Handouts)</b> <b>Resource Person</b> A.John Pradeep Ebenezer Asst. Prof. and Head PG Dept. of Computer Applications St.Joseph's College, Cuddalore-1
8	28/4/2020	1PM-4 PM	PIXEL PROCESSING using OPENCV	<b>E-Lecture (Presentation and pdf Handouts)</b> <b>Resource Person</b> A.John Pradeep Ebenezer Asst. Prof. and Head PG Dept. of Computer Applications St.Joseph's College, Cuddalore-1
9	28/4/2020	5PM-7 PM	Image Processing Challenge	<b>Submission through WhatsApp</b>
10	29/4/2020	9AM- 4 PM	Research Project in Color Identification	<b>Online Data Set</b> <b>Resource Person</b> A.John Pradeep Ebenezer Asst. Prof. and Head PG Dept. of Computer Applications St.Joseph's College, Cuddalore-1
11	1/5/2020	9AM-10 AM	Getting started with IPython,	<b>Video Lecture –Spoken Tutorial-IIT Bombay</b>
12	1/5/2020	10AM-11 AM	1. Using plot command interactively. 2. Embellishing a plot 3. Saving plots	<b>Video Lecture –Spoken Tutorial-IIT Bombay</b>
13	1/5/2020	11AM-12 NOON	1. Multiple plots 2. Subplots 3. Additional features of IPython	<b>Video Lecture –Spoken Tutorial-IIT Bombay</b>
14	1/5/2020	12NOON-1 PM	<b>BREAK -Online Meetings @SKYPE</b> <a href="https://join.skype.com/">https://join.skype.com/</a>	<b>Resource Person</b> A.John Pradeep Ebenezer Asst. Prof. and Head PG Dept. of Computer Applications St.Joseph's College, Cuddalore-1
15	1/5/2020	1PM-3 PM	1.Loading Data From Files 2. Plotting Data 3. Other Types Of Plots 4. Plotting Charts	<b>Video Lecture –Spoken Tutorial-IIT Bombay</b>
16	1/5/2020	3PM-4 PM	1.Getting started with Lists 2.Getting started with for 3.Getting started with strings 4.Getting started with files	<b>Video Lecture –Spoken Tutorial-IIT Bombay</b>
17	1/5/2020	4PM-5 PM	1.Parsing data 2.Statistics 3.Getting started with arrays 4.Accessing parts of arrays 5.Image manipulation using Arrays	<b>Video Lecture –Spoken</b>

			6.Basic Matrix Operations 7.Advanced Matrix Operations	Tutorial-IIT Bombay
18	2/5/2020	9AM-10 AM	1.Least square fit 2.Basic datatypes and operators 3.Sequence datatypes 4.Input-output 5.Conditional Statements 6.Loops	Video Lecture –Spoken Tutorial-IIT Bombay
19	2/5/2020	10AM-11 AM	1.Manipulating lists 2.Manipulating strings 3.Getting started with tuples 4.Dictionaries 5.Sets in Python 6.Getting Started with Functions	Video Lecture –Spoken Tutorial-IIT Bombay
20	2/5/2020	11AM-12 NOON	1.Advanced Features of 2.Functions 3.Using Python Modules 4.Writing Python Scripts 5.Testing and Debugging 6Handling Errors and Exceptions	Video Lecture –Spoken Tutorial-IIT Bombay
21	2/5/2020	12NOON-1 PM	BREAK	-
22	2/5/2020	1PM-4 PM	Research Assistance Online Meetings @SKYPE <a href="https://join.skype.com/">https://join.skype.com/</a>	Resource Person A.John Pradeep Ebenezer Asst. Prof. and Head PG Dept. of Computer Applications St.Joseph's College, Cuddalore-1

## Video Tutorial Links

1. Getting started with IPython

<https://spoken-tutorial.org/watch/Python+3.4.3/Getting+started+with+IPython/English/>

2. Using plot command interactively

<https://spoken-tutorial.org/watch/Python+3.4.3/Using+plot+command+interactively/English/>

3. Embellishing a plot

<https://spoken-tutorial.org/watch/Python+3.4.3/Embellishing+a+plot/English/>

4. Saving plots

<https://spoken-tutorial.org/watch/Python+3.4.3/Saving+plots/English/>

5. Multiple plots

<https://spoken-tutorial.org/watch/Python+3.4.3/Multiple+plots/English/>

6. Subplots

<https://spoken-tutorial.org/watch/Python+3.4.3/Subplots/English/>

7. Additional features of IPython

<https://spoken-tutorial.org/watch/Python+3.4.3/Additional+features+of+IPython/English/>

8. Loading Data From Files

<https://spoken-tutorial.org/watch/Python+3.4.3/Loading+Data+From+Files/English/>

9. Plotting Data

<https://spoken-tutorial.org/watch/Python+3.4.3/Plotting+Data/English/>

10. Other Types Of Plots

<https://spoken-tutorial.org/watch/Python+3.4.3/Other+Types+Of+Plots/English/>

11. Plotting Charts

<https://spoken-tutorial.org/watch/Python+3.4.3/Plotting+Charts/English/>

12. Getting started with Lists

<https://spoken-tutorial.org/watch/Python+3.4.3/Getting+started+with+Lists/English/>

13. Getting started with for

<https://spoken-tutorial.org/watch/Python+3.4.3/Getting+started+with+for/English/>

14. Getting started with strings

<https://spoken-tutorial.org/watch/Python+3.4.3/Getting+started+with+strings/English/>

15. Getting started with files

<https://spoken-tutorial.org/watch/Python+3.4.3/Parsing+data/English/>

16. Parsing data

<https://spoken-tutorial.org/watch/Python+3.4.3/Statistics/English/>

17. Statistics

<https://spoken-tutorial.org/watch/Python+3.4.3/Statistics/English/>

18. Getting started with arrays

<https://spoken-tutorial.org/watch/Python+3.4.3/Getting+started+with+arrays/English/>

19. Accessing parts of arrays

<https://spoken-tutorial.org/watch/Python+3.4.3/Accessing+parts+of+arrays/English/>

20. Image manipulation using Arrays

<https://spoken-tutorial.org/watch/Python+3.4.3/Image+manipulation+using+Arrays/English/>

21. Basic Matrix Operations

<https://spoken-tutorial.org/watch/Python+3.4.3/Basic+Matrix+Operations/English/>

22. Advanced Matrix Operations

<https://spoken-tutorial.org/watch/Python+3.4.3/Advanced+Matrix+Operations/English/>

23. Least square fit

<https://spoken-tutorial.org/watch/Python+3.4.3/Least+square+fit/English/>

24. Basic datatypes and operators

<https://spoken-tutorial.org/watch/Python+3.4.3/Basic+datatypes+and+operators/English/>

25. Sequence datatypes

<https://spoken-tutorial.org/watch/Python+3.4.3/Sequence+datatypes/English/>

26. Input-output

<https://spoken-tutorial.org/watch/Python+3.4.3/Input-output/English/>

27. Conditional Statements

<https://spoken-tutorial.org/watch/Python+3.4.3/Conditional+Statements/English/>

28. Loops

<https://spoken-tutorial.org/watch/Python+3.4.3/Loops/English/>

29. Manipulating lists

<https://spoken-tutorial.org/watch/Python+3.4.3/Manipulating+lists/English/>

30. Manipulating strings

<https://spoken-tutorial.org/watch/Python+3.4.3/Manipulating+strings/English/>

31. Getting started with tuples

<https://spoken-tutorial.org/watch/Python+3.4.3/Getting+started+with+tuples/English/>

32. Dictionaries

<https://spoken-tutorial.org/watch/Python+3.4.3/Dictionaries/English/>

33. Sets in Python

<https://spoken-tutorial.org/watch/Python+3.4.3/Sets+in+Python/English/>

34. Getting Started with Functions

<https://spoken-tutorial.org/watch/Python+3.4.3/Getting+Started+with+Functions/English/>

35. Advanced Features of Functions

<https://spoken-tutorial.org/watch/Python+3.4.3/Advanced+Features+of+Functions/English/>

36. Using Python Modules

<https://spoken-tutorial.org/watch/Python+3.4.3/Using+Python+Modules/English/>

37. Writing Python Scripts

<https://spoken-tutorial.org/watch/Python+3.4.3/Writing+Python+Scripts/English/>

38. Testing and Debugging

<https://spoken-tutorial.org/watch/Python+3.4.3/Testing+and+Debugging/English/>

39. Handling Errors and Exceptions

<https://spoken-tutorial.org/watch/Python+3.4.3/Handling+Errors+and+Exceptions/English/>



# POSTER OF FDP

**St. Joseph's College of Arts and Science (Autonomous)**  
**Cuddalore-1**

in  
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**Organizes**

**SPOKEN TUTORIAL**  
SOFTWARE TRAINING PROJECT  
Developed by IIT BOMBAY  
A PROJECT OF THE NATIONAL MISSION ON EDUCATION THROUGH IT  
POWERED BY THE MINISTRY OF HUMAN RESOURCE DEVELOPMENT  
GOVERNMENT OF INDIA  
spoken-tutorial.org

**FACULTY DEVELOPMENT PROGRAMME [ ONLINE ]**

**May 1 2020** ON **May 2 2020**

**COMPUTER VISION USING PYTHON-JUPYTER(OpenCV)**

**PARTICIPANTS: FACULTY OF ST. JOSEPH'S COLLEGE, CUDDALORE-1**

**REGISTRATION FREE**

**POWERED BY PG DEPARTMENT OF COMPUTER APPLICATIONS**

## ONLINE REGISTRATION FORM

Converting your file | (1) WhatsApp | Gmail | Contact Information - Google Fo | +

docs.google.com/forms/d/1aAcni9UeaHXUuu9k7jJFnkYQR8mp\_2tuF0zQ9oObWio/edit

REGISTRATION DETAILS FOR FACULTY DEVELOPMENT PROGRAMME ON COMPUTER VISION USING PYTHON- JUPYTER(OPENCV)

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**REGISTRATION FREE**

**POWERED BY PG DEPARTMENT OF COMPUTER APPLICATIONS**

final.csv.zip | Blessed Morning S...pdf | Blessed Morning S...pdf | Blessed Morning S...pdf | Blessed Morning S...pdf | Show all

12:34 PM 12/05/2020

# ONLINE TEST FORM

The screenshot shows a Google Forms page titled "FDP-OPENCV-TEST-1". The header features the logo of St. Joseph's College of Arts and Science (Autonomous) Cuddalore-1, a collaboration with Spoken Tutorial, IIT Bombay, and the Spoken Tutorial logo. The form content includes the title "FDP-OPENCV-TEST-1" and a description: "This Test comprises of 10 Python based questions. FIVE Covid-19 based questions. TWO logical questions In Total 17 questions (2 Marks per question).". The first question is: "1. What is the name of the Open Source Distribution we are using for doing python programming?". Below the question is a "Short answer text" input field. The browser's address bar shows the URL: "https://docs.google.com/forms/d/1ZXFkruHwNgjml1TdACepbY\_KasPIHqhtbkRg\_IHjm0/edit". The Windows taskbar at the bottom shows the time as 12:37 PM on 12/05/2020.

# SKPYE MEETING LIVE

The screenshot shows a Skype meeting interface. The main window displays a "Welcome, John" message with a circular profile picture of John Pradeep Ebenezer Albert. Below the name, it says "Hi My Dear Friends, Discussions on Python" and "Start a conversation". A search bar prompts the user to "Search for someone to start chatting with or go to Contacts to see who is available." The left sidebar shows a list of "RECENT CHATS" with entries for John Pradeep Ebenezer Alb..., Arun Joseph william (4/29/2020), and several "Meet Now" entries (4/25/2020). The Windows taskbar at the bottom shows the time as 12:39 PM on 12/05/2020.

**ST. JOSEPH'S COLLEGE OF ARTS AND SCIENCE (AUTONOMOUS),  
CUDDALORE-01  
PG AND RESEARCH DEPARTMENT OF MATHEMATICS & DEPARTMENT OF  
COMMERCE (BANK MANAGEMENT)**

**REPORT ON FACULTY DEVELOPMENT PROGRAM ON WRITING AND  
PUBLISHING RESEARCH PAPERS IN SCOPUS/ WEB OF SCIENCE JOURNALS**

Date: 22-11-2021 to 26-11-2021

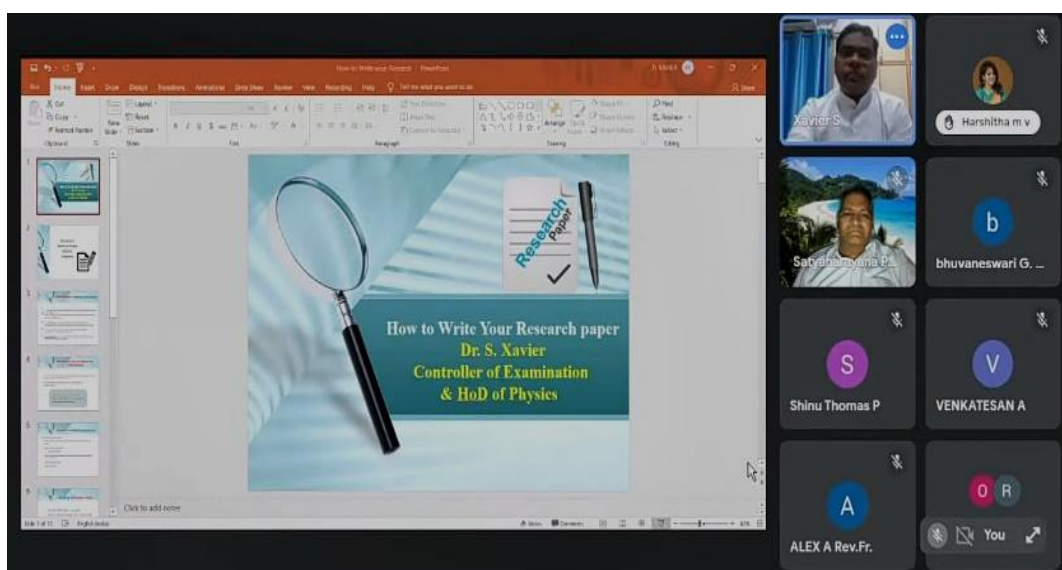
Time: 4.30 PM to 6.30 PM

Venue: [online] Google meet: <https://meet.google.com/dva-yitx-xgp>

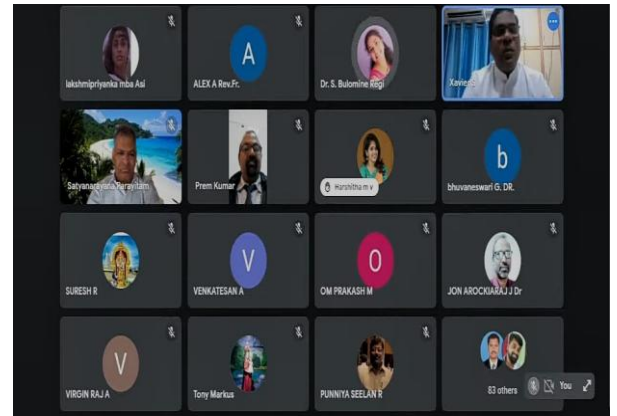
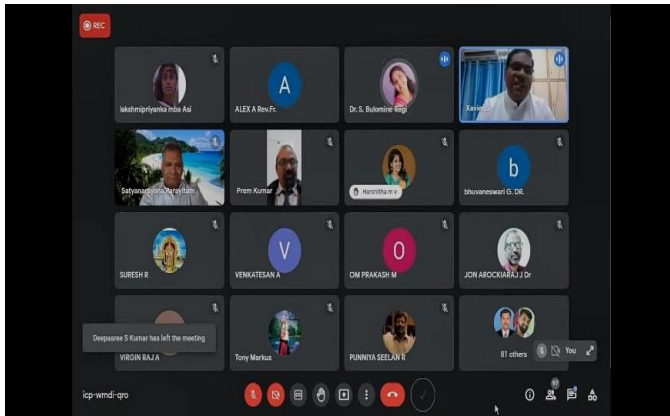
Rev. Fr. G.Peter Rajendiram, Secretary, blessed & presided over the programme. Rev. Fr. Dr.A.Alex, Dean of Studies welcomed the gathering. Dr.M.Arurai Selvam, Principal, Dr.J.Jon Arockiaraj, Vice-Principal, and Rev. Fr. Dr.S.Xavier, Controller of Examinations felicitated the programme. Finally, Dr. J. Jon Arockiaraj, Vice-Principal & Convenor of this event concluded with the vote of thanks. 165 Participants were certified after successful completion of FDP.

Day I - 22.11.2021(Monday)

On the First Day, First session, The Resource Person Rev. Fr. Dr. S. Xavier, The Controller of Examination & Head of the Physics Department of St. Joseph's College of Arts & Science (Autonomous) Cuddalore, delivered a lecture on "Publishing An Analytical Research Paper". Youtube link: <https://youtu.be/x361gcm69aI>

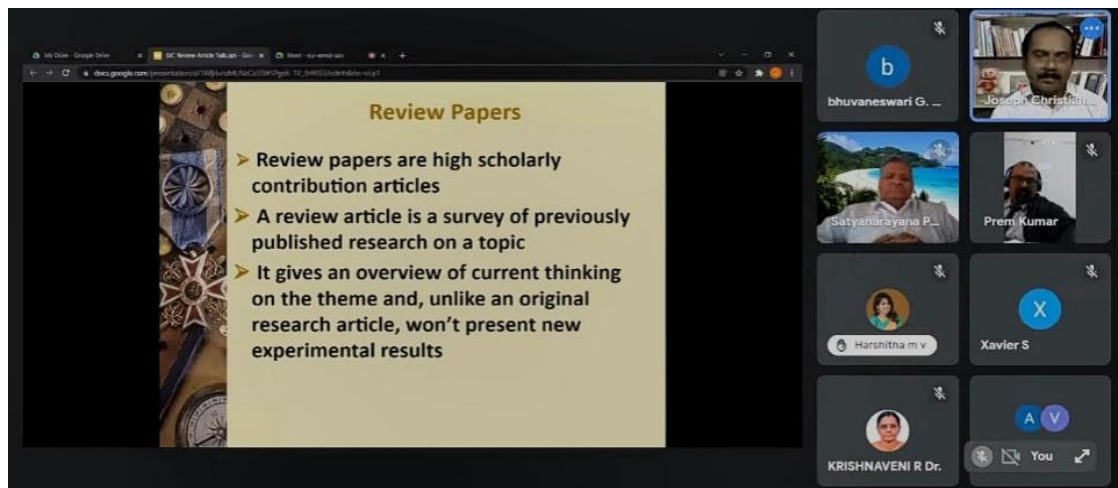


**The Resource Person delivered the Lecture**



**The Q&A Session handled by the Resource Person**

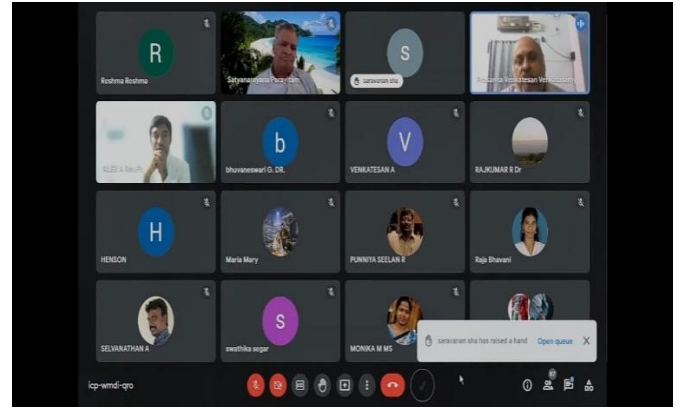
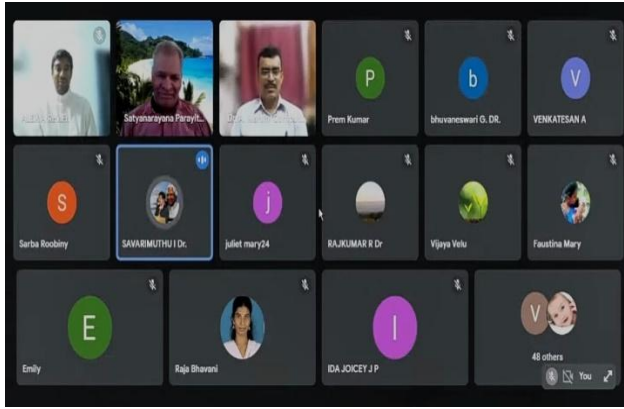
On the First day, Second session, The Resource Person Dr.S.Joseph Christian Daniel, IQAC Co-ordinator & Head, Department of the Microbiology, St. Joseph’s college of Arts and Science (Autonomous) Cuddalore, provided a briefing on “Publishing a Review Article”.



**The Resource person delivered the Lecture**

**Day II - 23.11.2021 (Tuesday)**

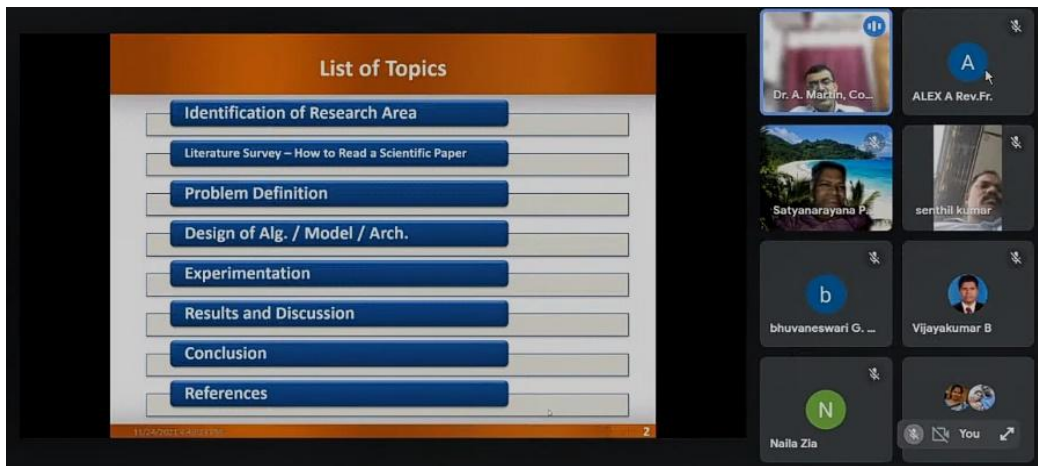
On the Second Day, The Resource Person Dr.V. Prasanna Vengatesan, Professor, Department of Banking Technology, Pondicherry University, Puducherry, made a presentation on “Marching towards High Quality Research”. Youtube link: <https://youtu.be/o-VfsgM4oIA>



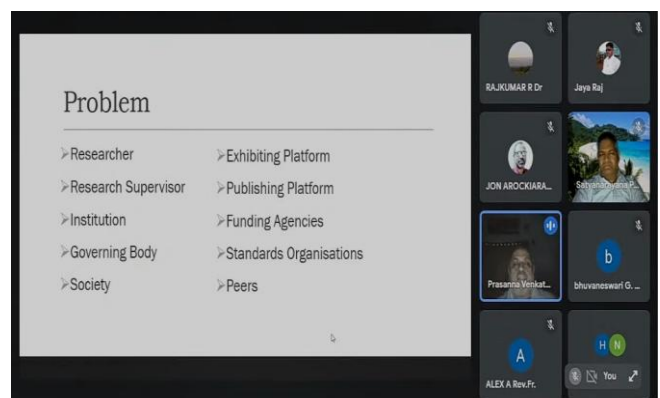
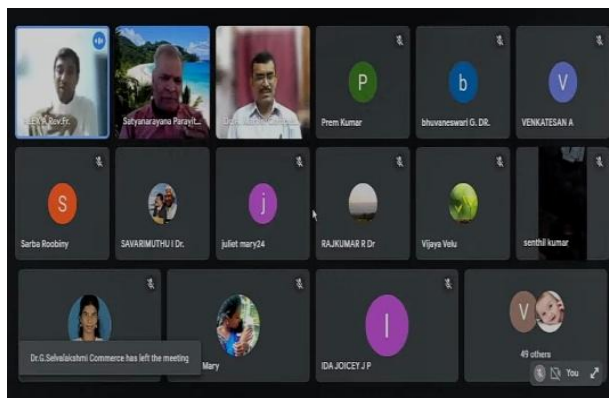
**The Q&A Session handled by the Resource Person**

**Day III - 24.11.2021 (Wednesday)**

On the Third day, The Resource Person Dr. A. Martin, Assistant Professor, Department of Computer Science, Central University of Tamil Nadu, Tiruvarur, delivered a lecture on “How to Conduct Effective Literature Review”. Youtube link: <https://youtu.be/16AAIg93MYk>



**The Resource person delivered the Lecture**



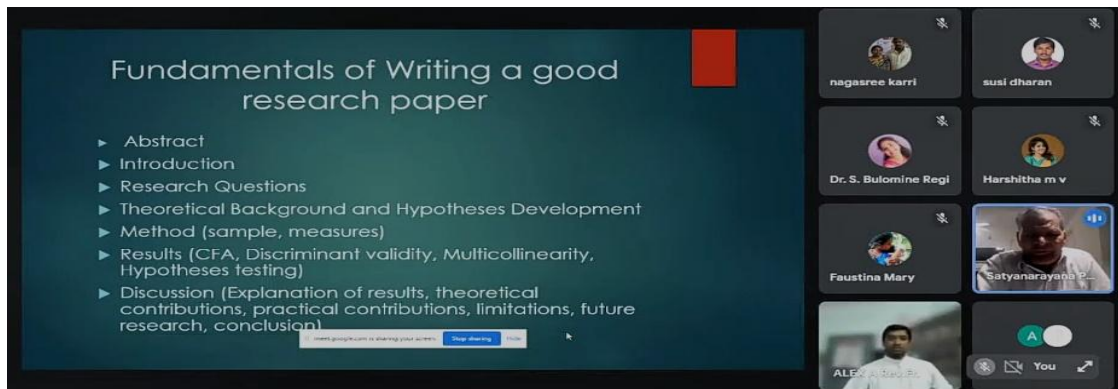
**The Q&A Session handled by the Resource Person**

## Day IV - 25.11.2021 (Thursday)

On the Fourth Day, The Resource Person Dr. Satyanarayana Parayitam, Professor, Department of Management and Marketing, Charlton College of Business, University of Massachusetts, Dartmouth, USA, presented a lecture on “Framing Conceptual Model in Research from Hypothesis, Process of Publication and Fulfilling Reviewers Expectations”.

Youtube link: Link-1 <https://youtu.be/B0XcsvgzhE> Link-2 <https://youtu.be/DbCB6Rw5ZMo>

Link-3 <https://youtu.be/r0eVD-F-BiE> Link-4 <https://youtu.be/AnrtUNkMQmw>



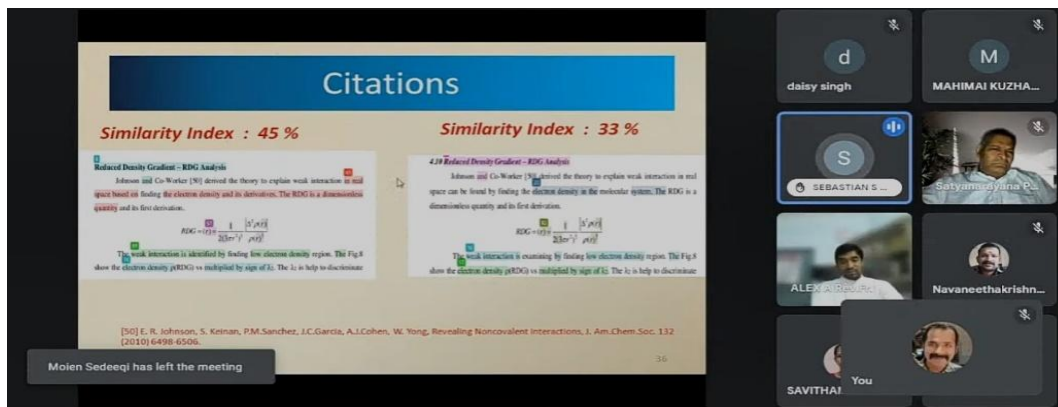
**The Resource person delivered the Lecture**



**The Q&A Session handled by the Resource Person**

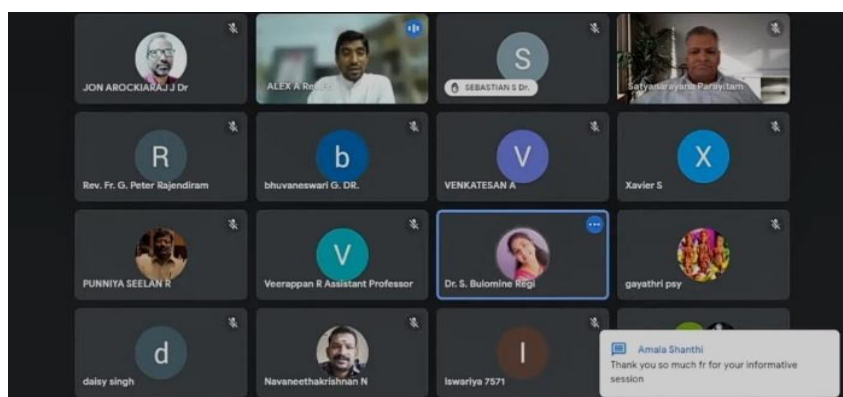
## Day V - 26.11.2021(Friday)

On the Fifth day, First Session, The Resource Person Dr. S. Sebastin, Assistant Professor, Department of Physics, St.Joseph's College of Arts and Science, Cuddalore, gave a talk on “The Methodology to Reduce Plagiarism on the Research Paper”.

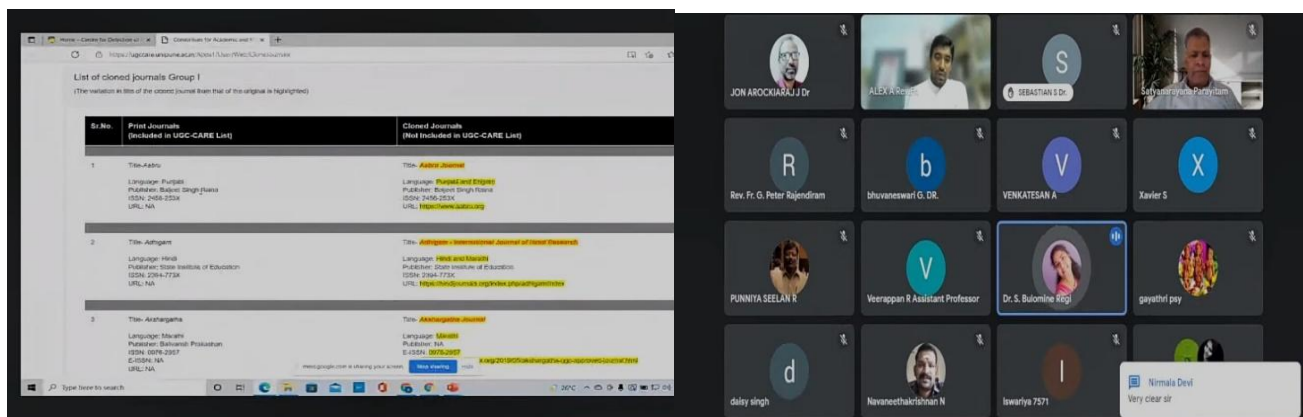


**The Resource person delivered the Lecture**

On the Fifth Day, Second Session, The Resource Person Rev. Fr. Dr. A. Alex, Dean of Studies & Head, Department of BBM and BBA, St. Joseph college of Arts & Science (Autonomous), Cuddalore, gave a Briefing on “How to identify Cloned/ Fake / Predatory Journals”.



**The Resource person delivered the Lecture**



**The Q&A Session handled by the Resource Person**

An e-certificate was issued to the participants who successfully completed the FDP programme.

S.No	Name of the Participants	Designation & Department	Name of the College
1	Mr V. R. Suresh Kumar	Assistant Professor & Head, Department of English	St. Joseph's College of Arts and Science (Autonomous), Cuddalore.
2	Mrs. T. Jackuline Suganthi	Assistant Professor of English	St. Joseph's College of Arts and Science (Autonomous), Cuddalore.
3	Mrs. X. Ann Lanka Jeyadharshini	Assistant Professor of English	St. Joseph's College of Arts and Science (Autonomous), Cuddalore.
4	Mrs. J. P. Ida Joicey	Assistant Professor of English	St. Joseph's College of Arts and Science (Autonomous), Cuddalore.
5	Mrs. M. A. Mary	Assistant Professor of English	St. Joseph's College of Arts and Science (Autonomous), Cuddalore.
6	Mrs. S. Umamageswari	Assistant Professor of English	St. Joseph's College of Arts and Science (Autonomous), Cuddalore.
7	Mrs. P. Indhu Sakthi	Assistant Professor of English	St. Joseph's College of Arts and Science (Autonomous), Cuddalore.
8	MRs. T. Shalini	Assistant Professor of English	St. Joseph's College of Arts and Science (Autonomous), Cuddalore.
9	Mr. E. Arokiadoss	Assistant Professor of English	St. Joseph's College of Arts and Science (Autonomous), Cuddalore.
10	Mr. A. Pradhap	Assistant Professor of English	St. Joseph's College of Arts and Science (Autonomous), Cuddalore.
11	Mr. A. NApolean Joseph	Assistant Professor of English	St. Joseph's College of Arts and Science (Autonomous), Cuddalore.
12	Dr. K. Ashok Kumar	Assistant Professor of English	St. Joseph's College of Arts and Science (Autonomous), Cuddalore.
13	Mr. B. Prabakaran	Assistant Professor of English	St. Joseph's College of Arts and Science (Autonomous), Cuddalore.
14	Mr. P. Malaiarasan	Assistant Professor of English	St. Joseph's College of Arts and Science (Autonomous), Cuddalore.
15	Mr. A. Lenin	Assistant Professor of English	St. Joseph's College of Arts and Science (Autonomous), Cuddalore.
16	Ms. W. Angel	Assistant Professor of English	St. Joseph's College of Arts and Science (Autonomous), Cuddalore.
17	Ms. A. Isabella	Assistant Professor of English	St. Joseph's College of Arts and Science (Autonomous), Cuddalore.
18	Dr. M. Vanathaiyan	Associate Professor & Head, Department of Tamil	St. Joseph's College of Arts and Science (Autonomous), Cuddalore.
19	Dr. A. Annammal	Assistant Professor of Tamil	St. Joseph's College of Arts and Science (Autonomous), Cuddalore.
20	Dr. A. Soussitra	Assistant Professor of Tamil	St. Joseph's College of Arts and Science (Autonomous), Cuddalore.
21	Mr. S. Arockiadoss	Assistant Professor of Tamil	St. Joseph's College of Arts and Science (Autonomous), Cuddalore.
22	Dr. F. Christy Belina	Assistant Professor of Tamil	St. Joseph's College of Arts and Science (Autonomous), Cuddalore.
23	Dr. A. Madeline	Assistant Professor of Tamil	St. Joseph's College of Arts and Science (Autonomous), Cuddalore.
24	Mrs. A. Gracy Janova	Assistant Professor of Tamil	St. Joseph's College of Arts and Science (Autonomous), Cuddalore.



25	Mrs. S. Leema	Assistant Professor of Tamil	St. Joseph's College of Arts and Science (Autonomous), Cuddalore.
26	Ms. J. Rita Mary	Assistant Professor of Tamil	St. Joseph's College of Arts and Science (Autonomous), Cuddalore.
27	Dr. I. Agnes Mary	Assistant Professor of Tamil	St. Joseph's College of Arts and Science (Autonomous), Cuddalore.
28	Mr. A. Johnbosco	Assistant Professor of Tamil	St. Joseph's College of Arts and Science (Autonomous), Cuddalore.
29	Dr. J. Jon Arockiarj	Assistant Professor & Head, Department of Mathematics	St. Joseph's College of Arts and Science (Autonomous), Cuddalore.
30	Mr. T. Henson	Assistant Professor of Mathematics	St. Joseph's College of Arts and Science (Autonomous), Cuddalore.
31	Mrs. A. Arokiamary	Assistant Professor of Mathematics	St. Joseph's College of Arts and Science (Autonomous), Cuddalore.
32	Mr. S. Johnson Savarimuthu	Assistant Professor of Mathematics	St. Joseph's College of Arts and Science (Autonomous), Cuddalore.
33	Mr. A. Virgin Raj	Assistant Professor of Mathematics	St. Joseph's College of Arts and Science (Autonomous), Cuddalore.
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