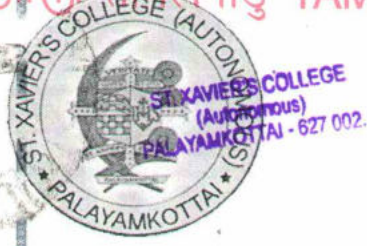




தமிழ்நாடு தமிலநாடு TAMIL NADU

Rs. 20/-

04AC 024858



ST. XAVIER'S COLLEGE,
PALAYAMKOTTAI,
TAMILNADU, INDIA

19 OCT 2022



MAR IVANIOS COLLEGE
THIRUVANTHAPURAM KERALA,
INDIA

MEMORANDUM OF UNDERSTANDING (MoU)

Between

ST. XAVIER'S COLLEGE (AUTONOMOUS), PALAYAMKOTTAI, TAMILNADU

And

MAR IVANIOS COLLEGE (AUTONOMOUS), THIRUVANTHAPURAM, KERALA

This Agreement is made on the 22th day of October, 2022 between St.Xavier's College (Autonomous) Palayamkottai for represented by its Principal Rev. Fr.Dr. Mariadoss S.J. as the first party and Mar Ivanios College (Autonomous), Affiliated to the Kerala University, Thiruvanthapuram, 695015, Kerala, India, represented by its Principal, Dr. Jijimon K. Thomas (herein after referred to as "Mar Ivanios College") as the second party.

PRINCIPAL
ST. XAVIER'S COLLEGE
(Autonomous)
PALAYAMKOTTAI



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Principal
Mar Ivanios College
Thiruvanthapuram-695 015

PURPOSE

Whereas,

a) **ST. XAVIER'S COLLEGE, PALAYAMKOTTAI**, is a Jesuit college of Arts and Science affiliated to Manonmaniam Sundaranar University, Tamil Nadu, India. Jesuits Fathers founded the college in 1923. UGC granted Autonomy in the year 1987. UGC conferred on our College the status of "College with Potential for Excellence" in 2004, for the second phase in 2010 and for the third phase in 2014. The College was accredited at A⁺⁺ Grade with a GCPA of 3.66 out of 4 in 2019 in the fourth cycle with the validly period of seven years by NAAC.

b) **ST. XAVIER'S COLLEGE** is desirous to associate **Mar Ivanios College** on various areas as discussed in the Purview of this MoU, which will be mutually beneficial to both organizations.


Whereas,

a) **MAR IVANIOS COLLEGE (AUTONOMOUS), THIRUVANTHAPURAM** was established in 1949 and pursues excellence upholding the far-sighted vision of our revered Founder, Servant of God **Archbishop Mar Ivanios**. The College currently offers 18 Under Graduate degree programmes and 9 post-graduate programmes.. Mar Ivanios College became the first private college affiliated to the University of Kerala to receive the status of CPE (College with Potential for Excellence) from the UGC. The College has been conferred with Autonomy status by the UGC from June 2014. In 2019 the College underwent 4th cycle of re-assessment process by NAAC to obtain A+ grade.

b) **MAR IVANIOS COLLEGE** is desirous to associate with **ST. XAVIER'S COLLEGE** on various areas as discussed in the Purview of this MoU, which will be mutually beneficial to both organizations.

That, relying on the principle of good faith, by virtue of which they will carry out all the possible actions for their due fulfillment,

And relying also on their common bonds and concerns, they state their interest in strengthening their relationships through academic cooperation, and for this end they are of one accord in entering this MoU.


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**NOW THEREFORE THIS MEMORANDUM OF UNDERSTANDING WITNESSES
AS FOLLOWS**

1. OBJECTIVE:


- c) The parties agree that the objective of the present MoU is to establish a cooperation program in order to collaborate towards the formation of students, academics and researchers for the promotion and development of their respective areas of interest.

2. METHOD FOR ACHIEVING THE OBJECTIVES:

- d) In order to achieve the aforementioned objectives, both parties, in mutual agreement, shall develop cooperation programs and projects that will specify the commitments each of them is to make for the performance of said programs.

3. AREAS OF CO-OPERATION:

- e) Whereas, **ST. XAVIER'S COLLEGE** and **MAR IVANIOS COLLEGE** recognize that the academic collaboration would be of mutual benefit and would provide strengths in research and education and their mutual interest in engaging themselves in academic cooperation. As per the purpose of the said agreement, the two parties shall:
 - i. *Research Collaborations:* Faculty / Researchers / Students of **ST. XAVIER'S COLLEGE** and **MAR IVANIOS COLLEGE** can collaborate in future research projects that either involve working cooperatively with partner institutions and / or cover a research topic with an international component. Activities include, but are not limited to, efforts toward developing proposals for collaborative research, co-authoring publication, conducting joint research projects, or establishing joint research centers etc.
 - ii. *Faculty Exchange with Partner Institutions:* Faculty members **ST. XAVIER'S COLLEGE** and **MAR IVANIOS COLLEGE** can travel between to participate in activities that can enhance their international / national experience and knowledge and also to foster relations between the parties. Activities include, but are not limited to, delivering lectures, teaching a course, taking a sabbatical, acquiring skills for institutional governance and developing collaborative research etc.
 - iii. *Student Exchange with Partner Institutions:* Students can be given an opportunity to travel among parties to participate in activities / events that will enhance their international / intercultural experience and knowledge.


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- iv. *Promotion of integrated studies for related studies:* The parties can look at integrating an international / intercultural dimension into their teaching, research, and service functions of the institution which would enable the students understanding on a global perspective.
- v. Cooperate in the exchange of information relating to their activities in teaching and research in fields of mutual interests; sharing best practices adopted by each parties; sharing of e-content between the parties; access to library and repository services, if possible.
- vi. Conduct cultural projects, study tours, as mutually agreed in writing between the parties prior to commencement of this activity.

4. FUNDING:

- f) Expenses for airfare, transportation, room and board and personal expenses of exchange students, teachers or officers shall be covered by each individual. Students will pay their registration, courses or professional practices at their home institution, so that they can be recognized afterwards.
- g) Students, interns and officers shall be responsible for requesting and obtaining lodging by inquiring with the institution, which shall provide every help necessary for them to obtain safe, convenient lodging arrangements.
- h) Financial expenses for (term visits) internships of professors and researchers, which will be arranged at the parties' request, as well as travel expenses, shall be covered by the requesting Institution. No fees will be paid, as the assumption is that the professors / researchers remain in their positions at their home institution, which will continue to pay their salaries.
- i) Students, professors and officers must acquire a medical insurance policy. The universities may offer them advice in seeking appropriate insurance.

5. NO EMPLOYMENT RELATIONSHIP:

- j) The parties agree that this Agreement shall not be construed in any manner as establishing any kind of partnership or bond of a labor nature between them. Thus, in all activities stemming from the present MoU and from subsequent specific action plans, the parties are in the understanding that, in all cases, employment relationships shall remain in force between the employing institution and its respective personnel.

6. CREDITS / ACCREDITATION:

- k) Credits and grades shall be awarded in accordance with the academic achievement

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policies in force at the Institution / Host Institution / Government. However, the home institution / Institution reserves the right to accept or reject any accreditation leading to an academic degree.

- l) The Host Institution / Institution shall issue a certification recognizing the grades obtained, as well as the hours invested or projects/papers completed by the students.

7. RIGHTS AND DUTIES:

- m) The host institution / Institution is committed to counseling and supporting exchange students through advice on academic and administrative procedures, as well as to foster their integration, inviting and encouraging guest students to become involved in student life.
- n) The institutions shall act as facilitators, but they will have no obligation whatsoever in terms of the actions, behaviors or financial aspects of the students / participants involved in the exchange.
- o) The students / participants shall enjoy the same rights and privileges as regular students / faculty, and shall observe the norms and rules of the Host Institution / Institution and in the host country. Any violation of the laws of the receiving country and / or the rules of the Host Institution / Institution by an exchange participant shall be grounds for the immediate termination of the privileges in the context of this Agreement.
- p) The host institution agrees to assist to provide boarding, lodging and necessities and to provide work space, library and laboratory facilities as appropriate.

8. AUTONOMY:

- q) This agreement is a statement of intentions and does not involve, in any instance whatsoever, any financial obligations between the subscribing institutions.

9. TERM:

- r) This MOU shall be effective for a period of five (5) years from the date of execution of this agreement, and shall be automatically renewed thereafter for another five (5) years unless a written notice to terminate or amend this agreement is given to the other party six (6) months in advance.
- s) It is expressly agreed that neither party shall be liable for damages that they might cause each other as a result of a **forceful suspension** of a collaboration program.


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Causes for forceful suspension must be explicitly set forth in the action plans.

10. CONFLICT RESOLUTION:

- t) Any dispute resulting from the interpretation or application of this Agreement shall be settled through direct negotiation and **common agreement** by the persons delegated to such end by each institution. Either party may propose to the other a modification of the Agreement at any time in writing.

11. ACTION PLANS:

- u) Every work program or specific activity that is agreed upon between both institutions shall be defined through an action plan, which shall be under the responsibility of two individuals, appointed respectively by each institution / Institution, and which shall define the following aspects:
- i. Foundations or considerations that warrant the plan for inter-institutional collaboration;
 - ii. Objective of the action plan for inter-institutional collaboration;
 - iii. General conditions of the plan;
 - iv. Academic conditions of the plan;
 - v. Administrative and organizational conditions of the plan;
 - vi. Duration of the protocol;
 - vii. Intellectual property;
 - viii. Differences between the parties;
 - ix. Development of the collaboration project;
 - x. Project and/or program to be carried out;
 - xi. Financial budget;
 - xii. Reference to the subject of medical insurance and information.

12. CONFIDENTIALITY:

- v) Each of the parties accepts and declares that every information from the other party is of a confidential nature, is the exclusive property of the latter and has been or will be disclosed to the former solely with the purpose of enabling the full accomplishment of the present Agreement. For this reason, every piece of information provided by one party to the other before signing this Agreement and/or during its performance must be kept confidential and therefore may not be disclosed to any third parties.


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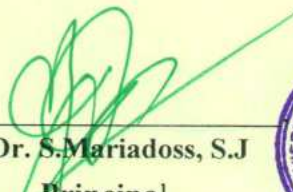


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Principal
Mar Ivanios College
Thiruvananthapuram-695 015


13. AMENDMENTS:


- w) The parties may amend or amplify this Agreement through agreements in writing to that effect. Said amendments or additions will be binding on the signatories as of the date of their signature. The parties may not assign, in whole or in part, the performance of the present MoU to any third party, except through prior and express authorization in writing by both of them.

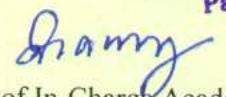
And since both parties are in agreement regarding the content of the present document, and as a token of conformity, we sign it in two counterparts, both of which will be considered originals.

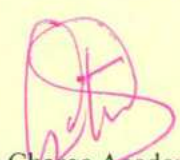

Rev. Dr. S. Mariadoss, S.J.
Principal
ST. XAVIER'S COLLEGE
(AUTONOMOUS), PALAYAMKOTTAI,
TAMILNADU, INDIA


Dr. Jijimon K. Thomas
Principal
MAR IVANIOS COLLEGE,
THIRUVANTHAPURAM INDIA

Witnesses


Name D. R. AZHAGUMATHI
Designation ASST. PROF. ZODU
ST. XAVIER'S COLLEGE
PALAYAM KOTTAI
Director
Internal Quality Assurance Cell (IQAC)
St. Xavier's College (Autonomous)
Palayamkottai - 627 002.


Name Fr. SOJI MATHEW
Designation Rector
MAR IVANIOS COLLEGE,
THIRUVANTHAPURAM
Mar Ivanios College (Autonomous)
Thiruvanthapuram-695015


Name of In-Charge Academic Collaborations
Designation
ST. XAVIER'S COLLEGE
PALAYAM KOTTAI


Name of In-Charge Academic Collaborations
Designation Dean of Studies
MAR IVANIOS COLLEGE,
THIRUVANTHAPURAM, INDIA .


Principal
ST. XAVIER'S COLLEGE
(Autonomous)
PALAYAMKOTTAI




Principal
Mar Ivanios College
Thiruvanthapuram-695 015

ST. XAVIER'S COLLEGE (AUTONOMOUS), PALAYAMKOTTAI

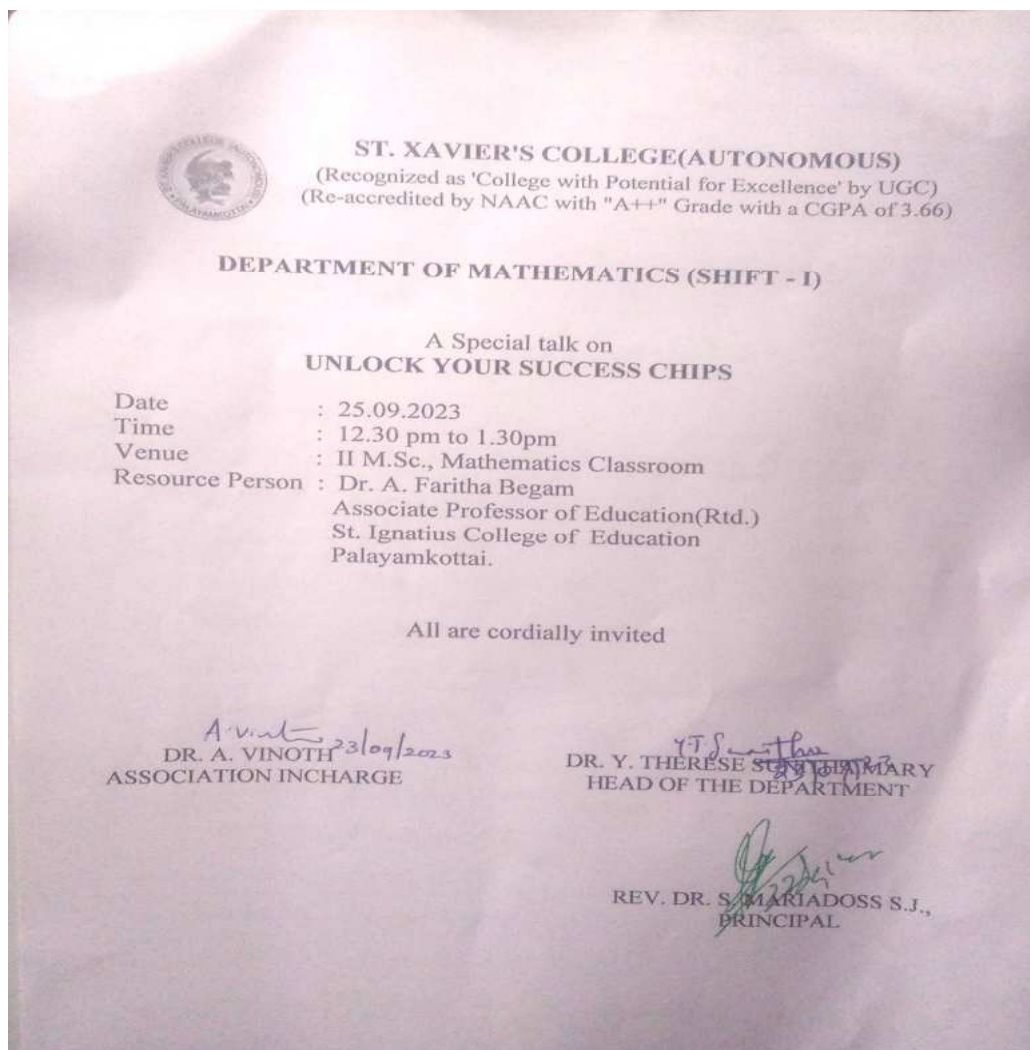
(Recognized as "College with potential for Excellence" by UGC)

(Re-accredited with 'A++' grade with a CGPA of 3.66 by NAAC)

DEPARTMENT OF MATHEMATICS (SHIFT- I)

Through the Memorandum of Understanding (Shri Meera Learning Academy), we have arranged a special talk on 25.10.2023 at 12.30 pm. The Resource person of the programme was Dr. A. Faritha Begam, Associate Professor of Education (Rtd.), St. Ignatius College of Education, Palayamkottai.

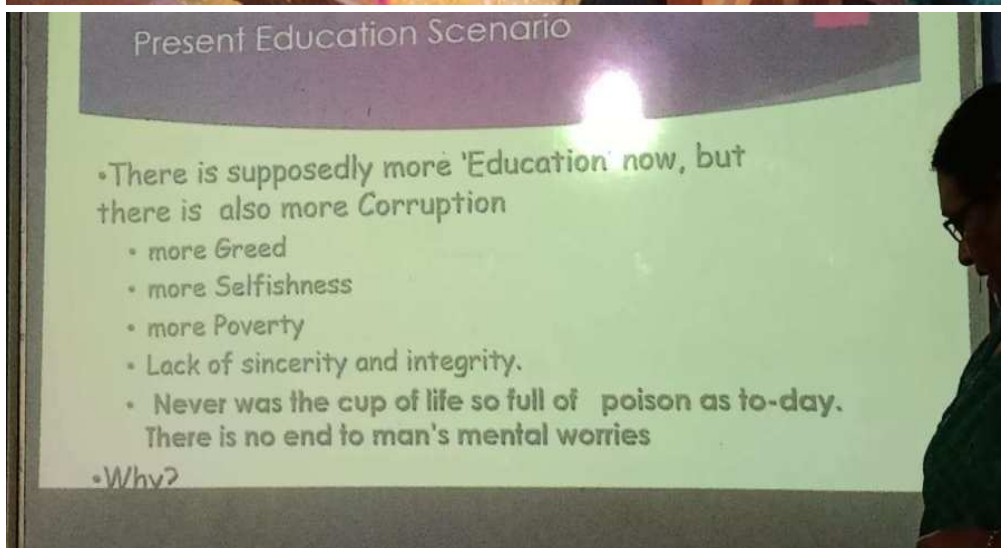
- The program started at 12. 30 pm with prayer song
- Ms. M. Jose Bensha has given the welcome address.
- Chief Guest was honoured by Dr. S. Nithya and Dr. A. Vinoth with a shawl and memento.
- Ms. R. Reshma Rex introduced the resource person to the gathering
- The resource person has given a special talk on the topic "unlock your success chips". Also shared her immense knowledge about today's education system, how to tackle our stress and overcome it and also explained the types of emotions.
- Finally M.Abrose thanked the gathering. At 1.40 pm the program came to an end.

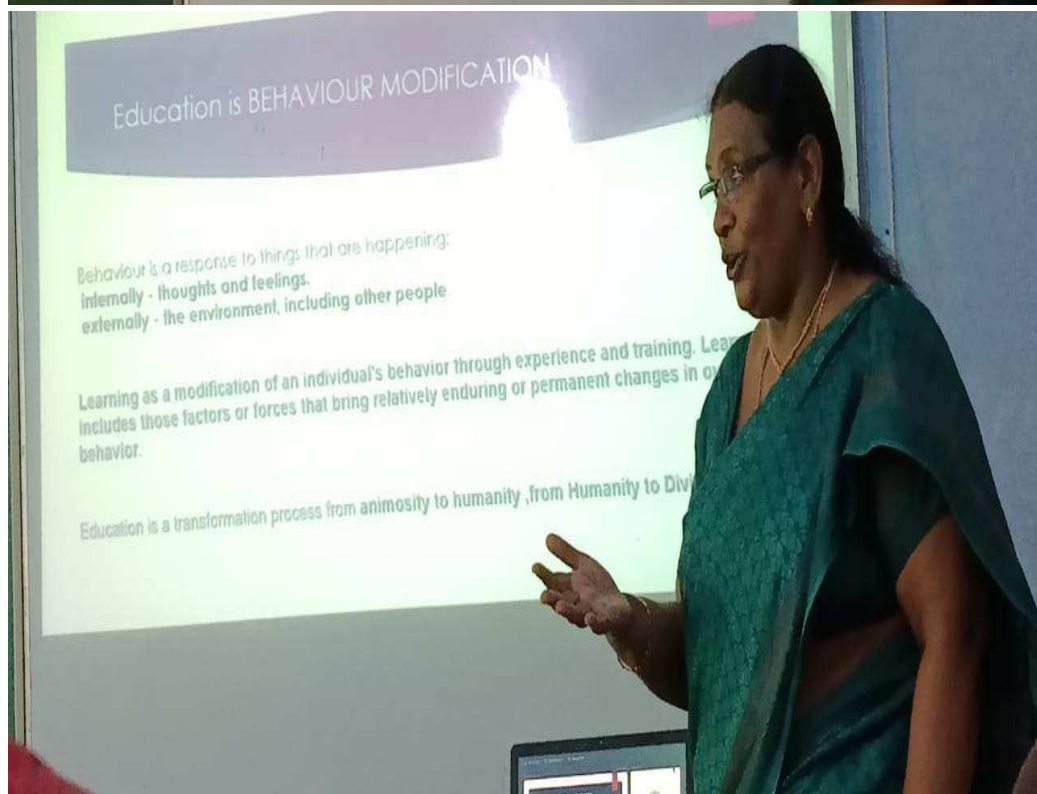
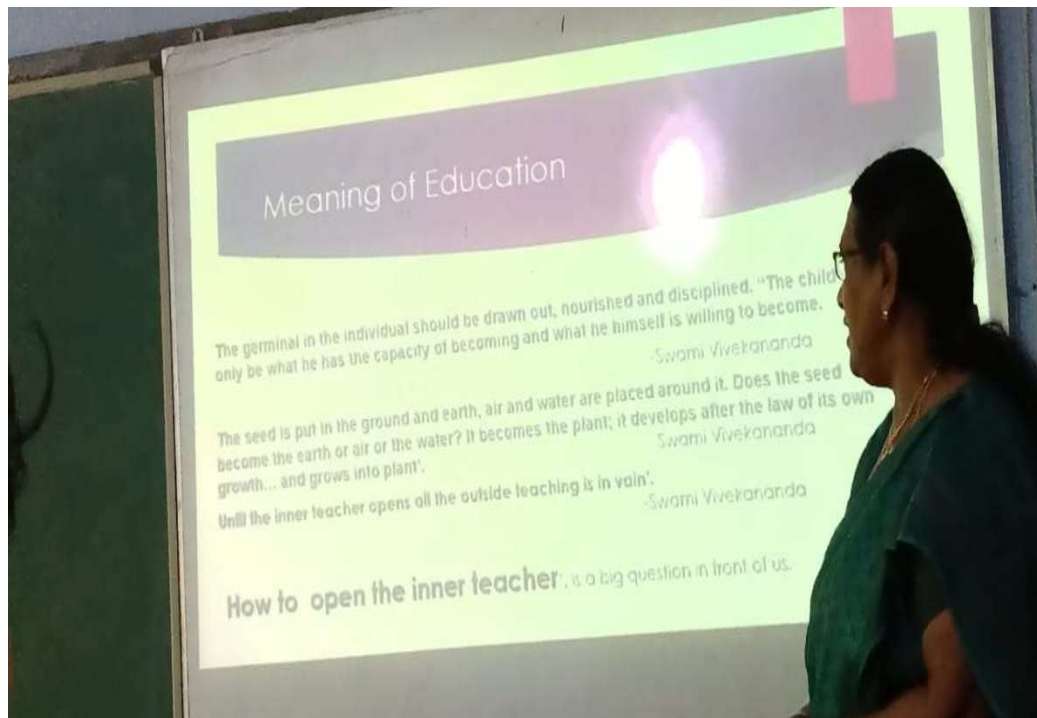


An invited talk on "UNLOCK YOUR SUCCESS CHIPS."
 25/9/23 Attendance Sheet Resource Person: Ms. Faritha Begam

SL.	Reg. No.	Name	Signature
1	22PMA101	Prasanth. A	Prasanth
2	22PMA102	Naveen kumar. SS	Naveen kumar
3	22PMA103	Josh Bakya mary. G.	Josh
4	22PMA104	Anns Pinky Dina. T.	Pinky
5	22PMA105	Edal Queen Annam. T	Edal
6	22PMA106	Nivetha. k.	K. Nivetha
7	22PMA107	Lutgard Archana. A	Archana
8	22PMA109	Sangaththamil M	Ab
9	22PMA110	Nivethytha. A S	Nivethytha
10	22PMA111	Mary Birla. M	Mary Birla
11	22PMA112	Laranya. L	L. Laranya
12	22PMA113	Siva Ambika. R	R. Siva Ambika
13	22PMA114	Anusha. A	Anusha
14	22PMA115	Mercy. I	Mercy
15	22PMA117	Cathrine Ruba. X	X. Cathrine
16	22PMA118	Reshma Rex. R.	Reshma Rex
17	22PMA119	Abrose. M	Abrose
18	22PMA122	Jeya Priya. k.	K. Jeyapriya
19	22PMA123	Reshma Jeya Salvi. D.	Reshma
20	22PMA124	Giftty Fern. A	Ab
21	22PMA125	Jose Bensha M.	M. Jose Bensha
22	22PMA126	Elaiyarajo. S	Elaiyarajo

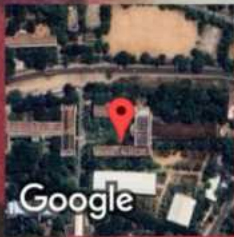








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627007, India

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Long 77.739295°

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ST. XAVIER'S COLLEGE (AUTONOMOUS), PALAYAMKOTTAI

(Recognized as "College with potential for Excellence" by UGC)

(Re-accredited with 'A++' grade with a CGPA of 3.66 by NAAC)

DEPARTMENT OF MATHEMATICS (SHIFT- I)

Through the Memorandum of Understanding(Learning.com), we have arranged a special talk titled "**GEOGEBRA – A GLOBAL PLATFORM TO LEARN MATH**" on 12.02.2024 from 11:30pm to 1:00pm. The Resource person of the programme was Dr. V. Thanga Murugeshwari, Assistant Professor of Er. Perumal Manimegalai College of Engineering, Hosur.

- ☐ The program started at 11:30pm with a short introduction of our resource person.
- ☐ Ms. M. Sangaththamil has given the welcome address.
- ☐ Chief Guest was honoured by Dr. S. Nithya and Dr. S. Philo with a shawl and memento.
- ☐ The resource person gave some ideas on using the CAS available in geogebra software and we have visualized the concept of Linear Algebra. The class was very lively, motivating and mind capturing.
- ☐ Tools that are available within our hands is Maxima minima, Coral draw, Microsoft visio, JASP, SPSFS, etc.,
- ☐ Finally Ms. L. Lavanya thanked the resource person and gathering.

	<p>ST.XAVIER'S COLLEGE (AUTONOMOUS) (Recognised as "College with Potential for Excellence" by UGC) (Re-accredited by NAAC with A++ Grade with a CGPA of 3.66) Palayamkottai – 627002</p> <p>DEPARTMENT OF MATHEMATICS (SHIFT - I)</p> <p>In collaboration with Learning.com (MOU)</p> <p>DATE : 12.02.2024</p> <p>TIME : 11:30 PM to 12:30 PM</p> <p>VENUE : I M. Sc., Mathematics Classroom</p> <p>RESOURCE PERSON : DR. V. THANGA MURUGESHWARI Assistant Professor, Er. Perumal Manimegalai College of Engineering, Hosur.</p> <p>"GEOGEBRA – A GLOBAL PLATFORM TO LEARN MATH"</p> <p>All are Cordially invited</p> <p>Dr. S. Philo STAFF IN-CHARGE</p> <p>Dr. V. Therese Sumitha Mary HEAD OF THE DEPARTMENT</p> <p>Rev. Dr. S. Marudoss S.J. PRINCIPAL</p>
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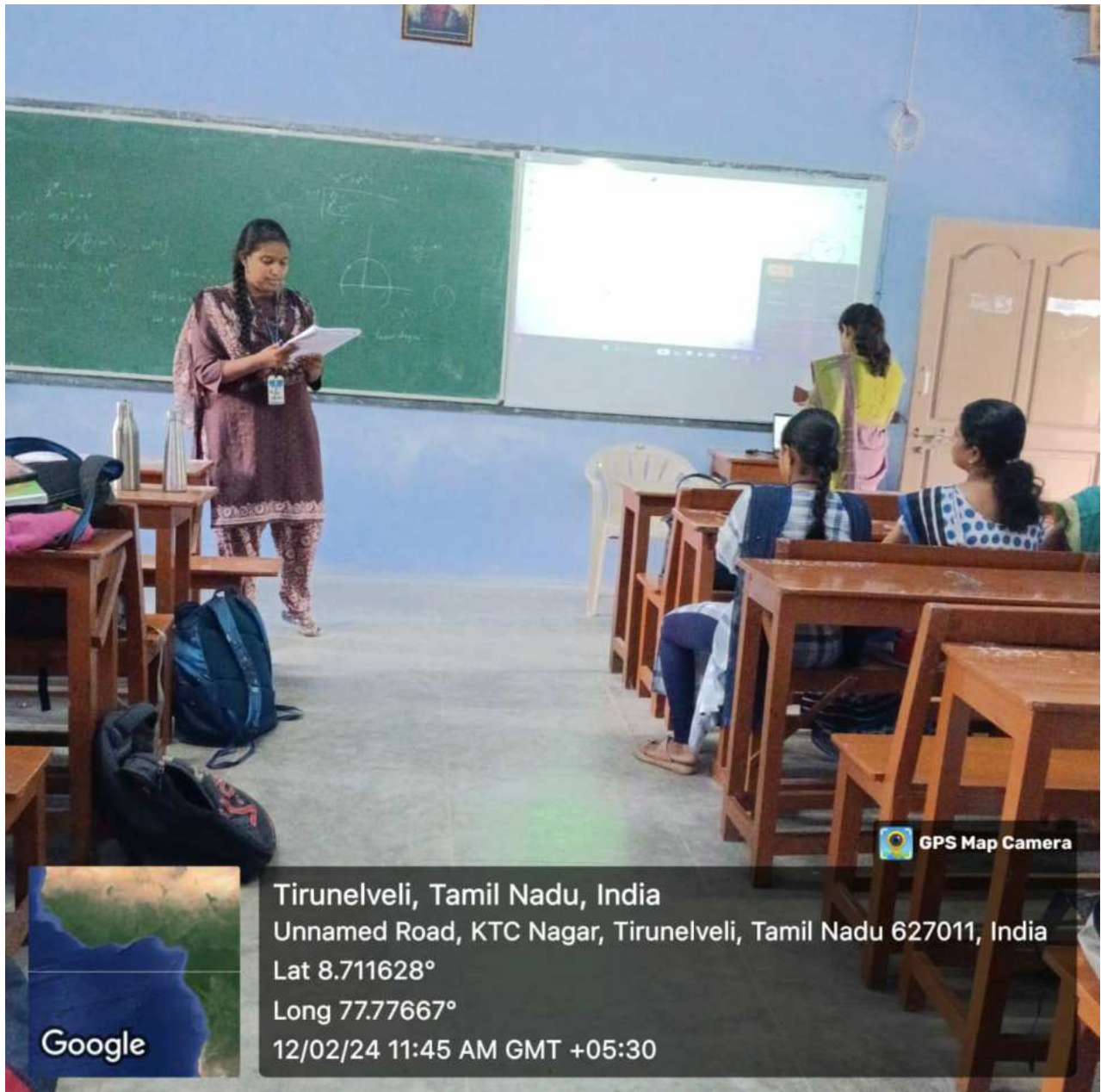
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Long 77.739223°

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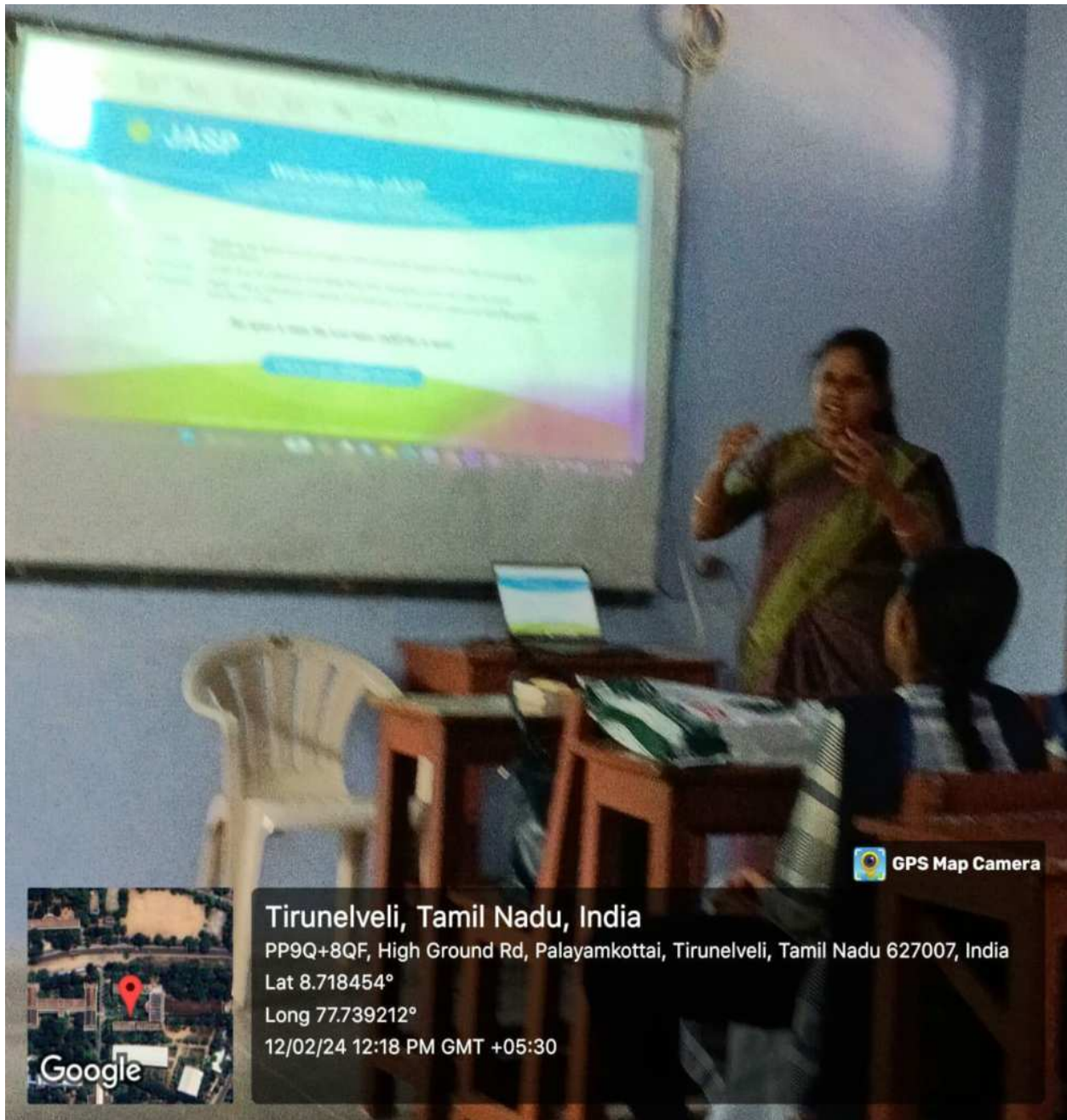
Tirunelveli, Tamil Nadu, India


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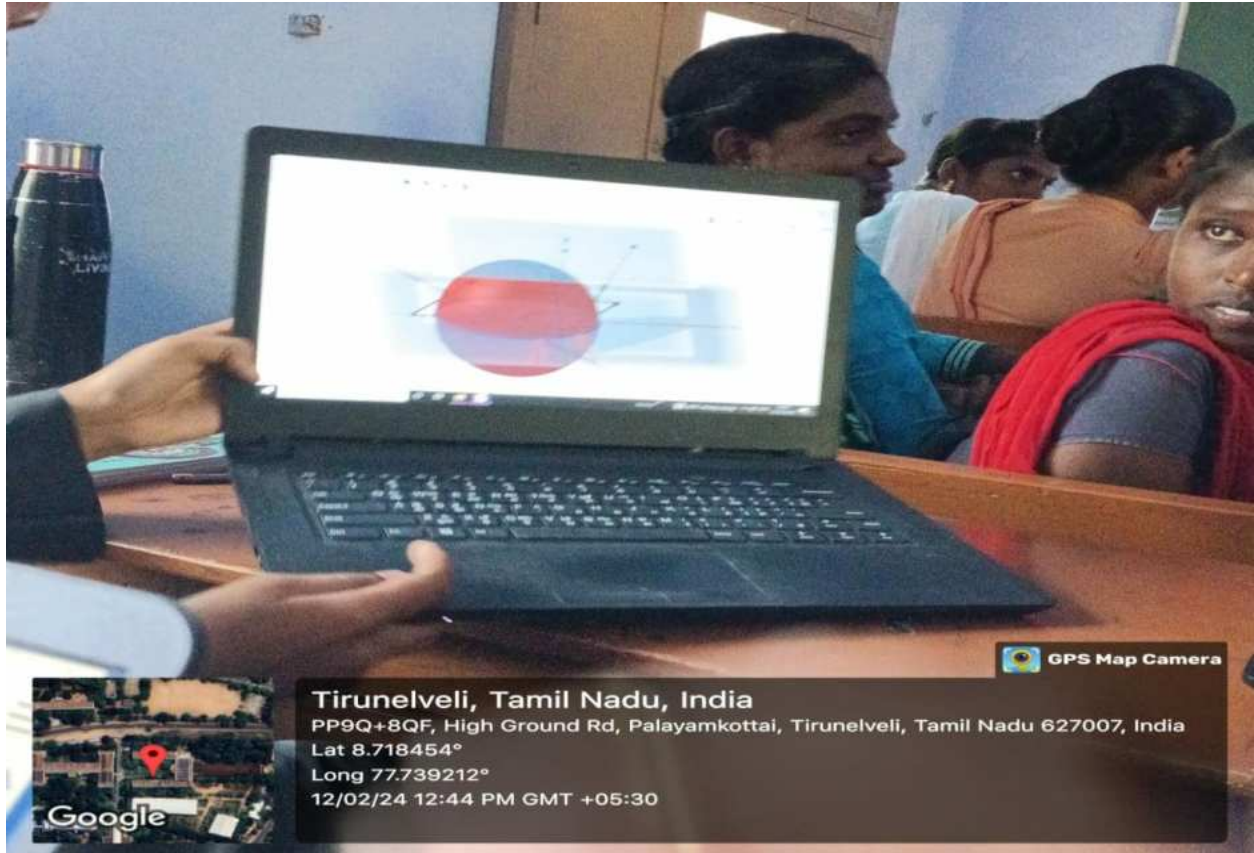
Tirunelveli, Tamil Nadu, India

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Long 77.739212°

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Tirunelveli, Tamil Nadu, India

PP9Q+8QF, High Ground Rd, Palayamkottai, Tirunelveli, Tamil Nadu 627007, India

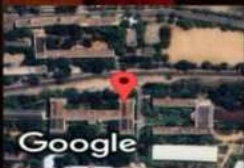
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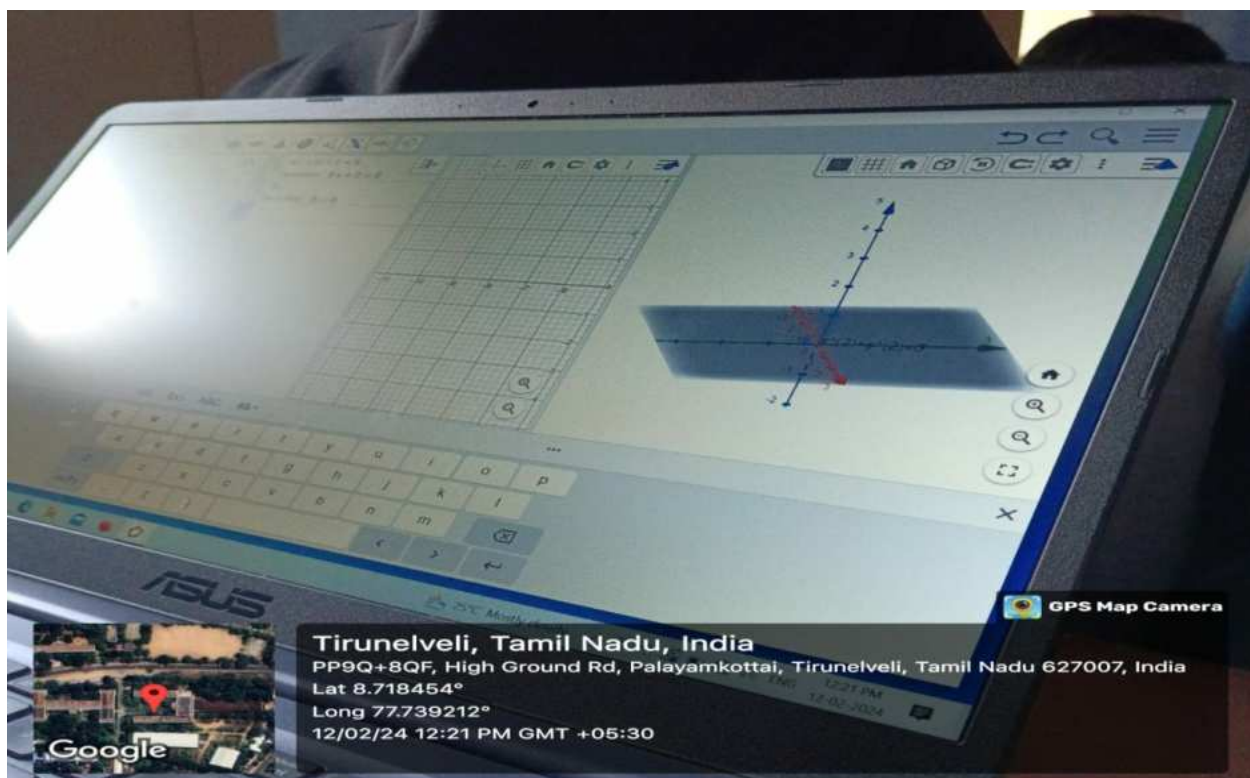
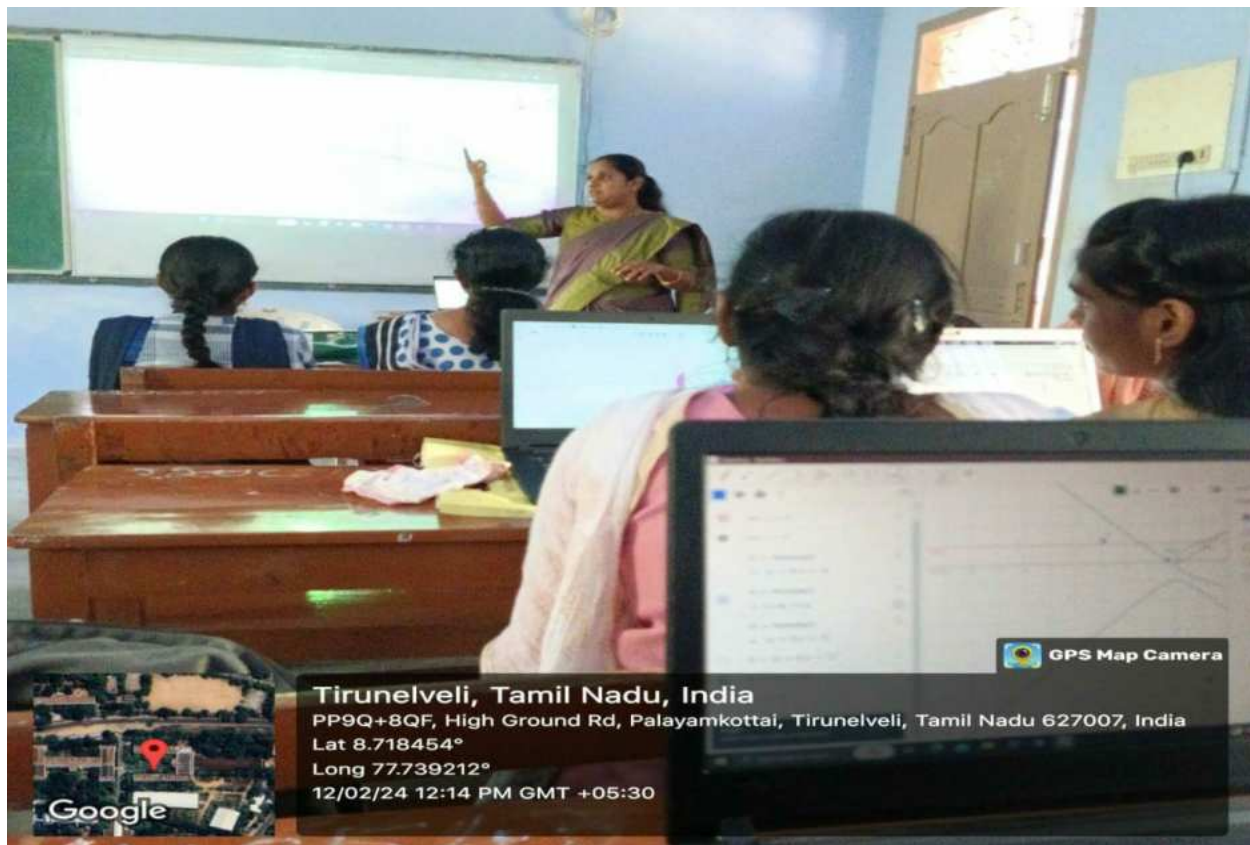
Tirunelveli, Tamil Nadu, India

PP9Q+FCW, High Ground Rd, Palayamkottai, Tirunelveli, Tamil Nadu 627002, India

Lat 8.718747°

Long 77.738728°

12/02/24 11:57 AM GMT +05:30



An invited talk on "Geogebra - A Global Platform to learn math".

12/2/24

Attendance sheet

Resource Person : Dr. V. Thangamurugeswari

S.NO	REG No.	Name	Signature
1	22PMA101	Prasanth A	Prasanth
2	22PMA102	Naveen kumar S.S	Naveen
3	22PMA103	Tosh Bakya Mary G.	G. Tosh.
4	22PMA106	Nivetha k.	K. Nivetha
5	22PMA109	Sangaththamil. M	Sangaththamil
6	22PMA110	Niveethya A S.	A.S. Niveethya
7	22PMA111	Mary Birla M	Mary
8	22PMA112	Laranya L.	Laranya
9	22PMA113	Siva Ambika R	R. Siva Ambika
10	22PMA114	Anusha. A	A. Anusha
11	22PMA115	Mercy .I	I. Mercy
12	22PMA117	Catherine Ruba. X	X. Cath
13	22PMA118	Reshma Rex . R.	Reshma Rex R.
14	22PMA119	Abrose. M	Abrose
15	22PMA123	Reshma Jey Selvi. D.	D. Reshma Jey Selvi
16	22PMA124	Gifty Fern. A.	A. Gifty Fern
17	22PMA125	Jose Bensha. M	M. Jose Bensha
18	22PMA126	Ellaiyaraia. S	S. Ellaiyaraia

19	Research Scholar	N. GIFTLIN KIRUBA	2000	Cuf
20	Research Scholar	G. MANJU	2000	Gisa
21	Research scholar	M. SUBBULAKSHMI. N. MURUGAN	2000	Perisubalan

ST. XAVIER'S COLLEGE (AUTONOMOUS), PALAYAMKOTTAI
(Recognized as "College with potential for Excellence" by UGC)
(Re-accredited with 'A++' grade with a CGPA of 3.66 by NAAC)

DEPARTMENT OF MATHEMATICS

**A report on " International Conference on Applications of
Mathematics in Data Science-2024"- 27th & 28th February
2024**

International Conference on Applications of Mathematics in Data Science-2024 was held on 27th & 28th February 2024. The inauguration started at 9.00 am in Fr. Caussannel Hall. Wlecome Address has given by Dr. Y. Therese Sunitha Mary, Head of the department of Mathematics. The inaugural address was given by Rev. Dr. S. Mariadoss S. J, Prinicipal, St. Xavier's College. Dr. V. Annie Vetha Joeshi proposed the vote of thanks. The invited talk started at 9.30 a.m and it was given by Dr. Andrew Arockia Celsy. Group I Paper presentation was began at 10.15 am. The second invited talk has given by Dr. T. Rajaretinam at 11.00 am. Paper presentation stated at 1.45 pm. Prof. Geln Hurlbert gave the invited talk through online at 4.00 pm. Again Paper presentation stated at 5.00 pm.

The second day was started with paper presentation at 8.45 am. Dr. V. P Ramesh gave the invited talk at 10.35 am. Dr. T. Arumuga Maria Devi has given the talk on Recent Research Trends in Hyperspectral Data Processing. Findally Dr. A. Lourdusamy gave a talk on "Essential Math for Data Science" at 12. 15 pm. The Valedictory started at 1.00 pm. Wlecome Address has given by Dr. S. Sethu Ramalingam, Coordinator of the department of Mathematics. The presidential address was given by Rev. Dr. S. Mariadoss S. J, Prinicipal, St. Xavier's College. Dr. B. Xavier Innocent offered the valedictory address. Dr. Y. Sunil Raj proposed the vote of thanks.

ABOUT THE ORGANIZATION

St Xavier's College was established in 1923 at Palayamkotta by Jesuit Priests with the aim of forming the young men and women of quality to be leaders in all walks of life so that they may serve the people of our nation in truth, justice and love. Accordingly, this college strives to be an agent of social change, instilling in the youth an awareness of the great need in our country of social justice based on brotherhood and dignity of the human person. Thus, it aims at making its own contribution towards a transformation of the present social condition to that justice, equality and the moral values enshrined in the constitution of India may prevail in the daily life of every citizen. The college was accredited by NAAC at A++ Grade with a CGPA of 3.86. The UGC conferred the status of College with Potential for Excellence in 2004, 2010, and 2014. The Department of Biotechnology (DBT), Government of India, awarded Star College status in 2014. The college caters to the marginalized and disadvantaged sections of the society.

Maths Mathematics Research Project

Teaching of Mathematics was well received right from the beginning of the college. In 1970, Post Graduate course in Mathematics was introduced. The department became a research centre in 2003 and about 30 research scholars are pursuing their Ph. D programme.

PGDSC Data Science & Mathematics

The objective of M. Sc. Data Science programme, offered by the department is to enable the students to get a very good exposure to the promising field of Data Science. The students undergo intensive lab work that will include several case studies. The department focuses on industry and institution interaction.

ABOUT THE CONFERENCE

The Departments of Data Science & Mathematics, St. Xavier's College, organize the International Conference on Application of Mathematics in Data Science (ICAMDS - 2024). The conference is conducted in hybrid (Online/Offline) mode where the primary intention is to bridge the gap between the future talents and the researchers in the fields of Data Science & Mathematics.

This conference also aims to naturally stimulate researchers with inventive ideas towards the growth of research and explore innovative courses to face the challenges in the fields of Data Science, Artificial Intelligence and Mathematics. It also aims bringing together academic researchers and delegates from the institutions/industry to exchange and share their experiences and research findings.

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Rev. Dr. G. Poilpansel S.J.
Rev. Dr. S. Mariadoss S.J.

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Principal

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Dr. B. Xavier Innocent

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Head, Department of Data Science, St. Xavier's College (Autonomous), Palayamkotta - 627 002

Dr. Y. Therese Sundia Mary
Head, Department of Mathematics, St. Xavier's College (Autonomous), Palayamkotta - 627 002

ORGANIZING SECRETARIES

Dr. A. Natarajan
Assistant Professor, Department of Data Science,
St. Xavier's College (Autonomous), Palayamkotta - 627 002

Dr. S. Sathu Ramalingam
Assistant Professor, Department of Mathematics,
St. Xavier's College (Autonomous), Palayamkotta - 627 002

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Dr. A. Vapth

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Mr. J. Anil Rayan

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Mr. S. Subayana Joseph Nirmalkumar

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Dr. J. Vinod

Mrs. A. Nafier

Dr. H. Sujitha

Dr. Y. Sunil Raj

CONTACTS

E-Mail: icamds2024@gmail.com

Mobile: +91 99943 13270 / +91 89187 36258

INTERNATIONAL CONFERENCE ON APPLICATIONS OF MATHEMATICS IN DATA SCIENCE [ICAMDS - 2024]

(Hybrid Mode)

Jointly Organized By

DEPARTMENT OF DATA SCIENCE & MATHEMATICS

27th & 28th February 2024



PG DEPARTMENT OF DATA SCIENCE
and
PG & RESEARCH DEPT. OF MATHEMATICS
ST. XAVIER'S COLLEGE (AUTONOMOUS)
Recognized by the Government of India
(Accredited by NAAC with a CGPA of 3.86 and by UGC, MAHE)
PALAYAMKOTTAI - 627 002
TAMILNADU, INDIA



ORGANIZING COMMITTEE

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United States of America
Dr. Priyanka Mallan
Senior Lecturer in Mathematics
British University, Bahrain
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Dr. Michael Cyber Security Consultant
Standard Chartered Bank, Singapore
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Department of Mathematics, School of Science
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Chennai
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Tirunelveli
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Dr. R. Jemia Rose
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St. Xavier's College, College of Engineering, Nagercoil
Mr. Raja Maragan
Chief, Analytics, Senior Programmer
GIC Group, Arakkonam, Tamil Nadu, Kanchipuram

ONLY FOR PAPERS

Academicians and researchers are invited to send their original and unpublished articles in any area of [Pure/ Applied/ Mathematics and Data Science/ Computational Sciences. When you submit the paper/abstract, kindly mention the conference name and the dates of the conference. If the full length paper is not ready, submit the abstract and full length paper in Word & PDF formats can be submitted after the presentation. Kindly send your articles to: maths@stxaviercollege.org

PUBLICATIONS

The papers presented in the conference will be published in the conference proceedings with ISBN if the presenter opts for it. Selected papers presented in the conference will be thoroughly refereed to as per the norms of journals and published in UGC Care recognized web of science indexed journals: South East Asian Journal of Mathematics and Mathematical Sciences (JMS), Indian Journal of Science and Technology (IJST), etc.; other Journals will be intimated later. The process to be followed for each category of publication will be informed later.

IMPORTANT DATES

Submission of Paper/Abstract : 23. 02. 2024
Acceptance Notification : 24. 02. 2024
Last Date for Registration : 25. 02. 2024

SCAN TO REGISTER



OR CLICK THE LINK

<https://stxaviercollege.org/Registration2024>

CONTACT

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REGISTRATION FEES

INDIAN AUTHORS

Faculty (With Presentation) : INR 1500 /-
Scholars (With Presentation): INR 1000 /-
Participants : INR 800 /-
UG/ PG Students : INR 500 /-

FOREIGN AUTHORS

Faculty/ Research Scholars : USD 20
(With Presentation)
Other Participants : USD 10
(Without Presentation)
UG/ PG Students : USD 10

REGISTRATION

Registration fees can be paid through DD/ Cheque/ Mobile Transfer. The DD / Cheque is to be taken in favour of 'Hess, Department of Data Science, St. Xavier's College, Palayankottal' payable at Tirunelveli. If the participants need accommodation, they have to inform us during the online registration. Registration fees will not cover the accommodation charges. Therefore, nominal fees will be collected during the conference for the arrangement of accommodation.

Mobile Transfer : Do this
Mobile No. : 9994343275



INTERNATIONAL CONFERENCE
ON
APPLICATIONS OF MATHEMATICS IN DATA SCIENCE

Organized by
**PG DEPARTMENT OF DATA SCIENCE &
RESEARCH DEPARTMENT OF MATHEMATICS
ST. XAVIER'S COLLEGE(AUTONOMOUS)**
(Recognized as "College with Potential for Excellence" by UGC)
(Accredited at "A++" Grade with a CGPA of 3.56 out of 4 in IV cycle by NAAC)
PALAYAMKOTTAI, TIRUNELVELI - 627002
(27th – 28th February 2024)

You are cordially invited to the Inaugural function at 9.00 a.m. on 27th February 2024
Venue: Fr. Causamal Hall

INAUGURAL FUNCTION

1. Implying God's Blessings : Department Choir
2. Welcome Address : **Dr. Y Therese Sunitha Mary**
HOD, Department of Mathematics
St. Xavier's College, Palayamkottai
3. Inaugural address : **Rev. Dr. S. Mariadoss, S.J.**
Principal, St. Xavier's College, Palayamkottai
4. Vote of Thanks : **Dr. V. Annie Vetha Joethi**
Department of Mathematics
St. Xavier's College, Palayamkottai

All are invited!!!

27th February 2024
(Venue: Fr. Causannel Hall)

09:00 a.m.	: Inauguration
9.30 a.m. -10.15 a.m.	: Invited Talk Fractals, Archetypes and Big Data: A Multidisciplinary Approach Towards the Intrinsic Nature of Patterns Dr. Andrew Arockia Celsy A <i>Assistant Professor</i> <i>St. Xavier's College, Palayamkottai.</i>
10.15 a.m. - 11.00 a.m.	: Paper Presentation (Group I – Online)
11.00 a.m. - 11.45 p.m.	: Invited Talk Gradient Descent Optimization Techniques in Data Science Dr. T. Rajaretnam <i>Head, Department of Data Science, Loyola, Chennai.</i>
11.45 a.m. – 12.05 p.m.	: Tea Break
12.05 p.m. – 01.00 p.m.	: Applications of Gradient Descent Optimization Techniques in Data Science Dr. T. Rajaretnam <i>Head, Department of Data Science, Loyola, Chennai</i>
1.00 p.m. – 1.45 p.m.	: Lunch
1.45 p.m. – 3.30 p.m.	: Paper Presentation (Parallel Sessions – Online/ Offline) <i>[Group II – Room I, Group III – Room II, Group IV – Offline]</i>
3.30 p.m. – 4.00 p.m.	: Tea Break
4.00 p.m. – 5.00 p.m.	: Important Techniques in Graph Pebbling Prof. Glenn Hurlbert <i>Virginia Commonwealth University, USA.</i>
5.00 p.m. – 6.00 p.m.	: Paper Presentation (Parallel Session) <i>[Group V – Room I, Group VI – Room II, Group VII – Room III]</i>

28th February 2024
(Venue: Fr. Causannel Hall)

8.45 a.m. – 10.35 a.m.	:	Paper Presentation (Group VIII – Offline)
10.35 a.m. – 11.15 a.m.	:	Machine Learning Algorithms for Image Classification in Health Care Dr. V. P. Ramesh <i>Asst. Professor,</i> <i>Mathematics, Analytics and Computing Experts (MACoE),</i> <i>School of Mathematics & Computer Science,</i> <i>Central University of Tamil Nadu, Thiruvannamalai</i>
11.15 a.m. – 11.30 a.m.	:	Ten Break
11.30 a.m. – 12.15 p.m.	:	Invited Talk Recent Research Trends in Hyperspectral Data Processing Dr. T Arumuga Maria Devi <i>Assistant Professor,</i> <i>Centre for Information Technology and Engg.,</i> <i>Manonmaniam Sundaranar University, Tirunelveli.</i>
12.15 p.m. – 01.00 p.m.	:	Essential Math for Data Science Dr. A. Lourdasamy Head, Department of Data Science St. Xavier's College, Palayamkottai

Note:

Delegates presenting papers online click **'Breakout Rooms'** icon at the bottom of the Zoom interface

And join the corresponding room. Kindly rename yourself using Paper ID followed by your Registered Name

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(27th – 28th February 2024)

You are cordially invited to the Valedictory function at 01.00 p.m. on 28th February 2024
Venue: Fr. Cusannal Hall

VALEDICTORY FUNCTION

You are cordially invited to the valedictory function of the conference at 01.00 p.m. on
28th February 2024 in Fr. Cusannal Hall in the college premises.

Dr. S. Sethu Ramalingam
Department of Mathematics, St. Xavier's College, Palayamkottai
welcomes the gathering

Dr. A. Lourdasamy
Presents the report of the conference

Rev. Dr. S. Mariadoss, S.J.,
Principal, St. Xavier's College, Palayamkottai,
delivers presidential address

Dr. B. Xavier Innocent
Deputy Principal, St. Xavier's College, Palayamkottai,
offers valedictory address

Dr. Sunil Raj Y
Department of Data Science, St. Xavier's College, Palayamkottai
proposes the vote of thanks.

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(23rd - 28th February 2024)

Venue: Fr. Causannel Hall

Day 1 (27 - 02 - 2024) Tuesday

(10.15 am - 11.00 am)

Mode of Presentation: Online

Session Chair: Dr. Nithya

Paper ID	Paper Title
ICAMD2024610011	ON NEUTROSOPHIC AP-NEIGHBOURHOOD AND ITS FUNCTIONS IN NEUTROSOPHIC TOPOLOGICAL SPACE C. Resna, M. Karthika resnatophany@gmail.com , karthikaanandam97@gmail.com
ICAMD2024620012	FIXED POINT THEOREMS IN RECTANGULAR METRIC AND S-METRIC SPACES A. Arul Xavier arulxavier3006@gmail.com
ICAMD2024610013	INVERSE COTOTAL DOMINATION ON GRAPHS M. Mariya Evila mariyaevila@gmail.com
ICAMD2024630014	PERFECT EQUITABLE PALINDROMIC GRAPH LABELLING G. Uma Maheswari, Fredrick Ignatius, V. Shandra Shamy, V. Balaji uma.vallorath@gmail.com
ICAMD2024210016	CRYPTOGRAPHY BASED ON SAWI AND ELZAKI TRANSFORM Arvind Kumar Patwa, Harish Chandra, Lacchima Sani 2022113003@mmmm.ac.in , hcmisc@mmmm.ac.in , lacchiammmmm22@gmail.com
ICAMD202410037	VARIATION OF AMPLITUDE RATIOS OF PLANE WAVE AT THE INTERFACE OF POROELASTIC AND THERMOELASTIC HALF-SPACES Komal Gajniya, Jyoti Singh Sicks komal.gajniya@inductek.ac.in

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(23rd - 28th February 2024)

Venue: Fr. Causannel Hall

Day 1 (27 - 02 - 2024) Tuesday

Group II (1.45 pm - 03.30 pm)

Room I

Mode of Presentation: Online

Session Chair: Dr. Lourdasamy, Dr. Sunil Raj

Paper ID	Paper Title
ICAMD2024600068	Exploring Methodologies and Applications of Data Science Integration in Electrical and Electronics Engineering Dr. L. Ramya Hyacinth, Dr. I. William Christopher, Dr. A. Anitha Juliette ramyahyacinth1@licet.ac.in , williamchristopher1@licet.ac.in , anithajuliette.a@licet.ac.in
ICAMD2024620019	OPTIMIZING LOGISTIC OPERATIONS: AN INTUITIONISTIC FUZZY- DECISION TREE APPROACH FOR MULTI-OBJECTIVE TRANSPORTATION PROBLEMS Sofi. A. Francis, Dr. M. Sangeetha, P. Pooranadevi m.sangeethaphd@gmail.com , sofshiju@gmail.com
ICAMD2024610020	DISCRETE LABELING OF SOME TREES A. Punitha Tharani, P. Saradha punitha_tharani@yahoo.co.in , sara1998cha@gmail.com
ICAMD2024610021	CARDINAL LABELING OF SOME STANDARD AND SPECIAL GRAPHS A. Punitha Tharani, S. Pratiksha punitha_tharani@yahoo.co.in , pratikshaarabhu32@gmail.com
ICAMD2024710122	EDGE DOUBLE ITALIAN DOMINATION OF GRAPHS Jyothi V. J. Suresh Kumar jyothivnair15@gmail.com , jsuresh.maths@gmail.com
ICAMD2024620023	A NONLINEAR MATHEMATICAL MODEL FOR ASTHMA: EXPLORING THE IMPACT OF ENVIRONMENTAL POLLUTION N. Vasuki, D. Jasmine vasu681999@gmail.com , jasminebhc@yahoo.com

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(27th - 28th February 2024)

Venue: Fr. Causannel Hall

Paper ID	Paper Title
ICAMD2024710224	AGGREGATE EDGE DEGREE OF SOME HESITANCY FUZZY GRAPHS Parvathy Haridas, Shery Fernandez parvathydeepak@yahoo.com, sheryfernandezak@gmail.com
ICAMD2024610017	A NEW PERSPECTIVE OF CONNECTEDNESS AND HYPERCONNECTEDNESS IN SOFT NANO TOPOLOGICAL SPACES P.Anbarasi Rodrigo, P.Subithra anbu.n.u@gmail.com, p.subithral18@gmail.com
ICAMD2024610031	ECCENTRICITY ENERGY OF COVER PEBBLING GRAPHS C. Muthulakshmi@Sasikala, A. Arul Steffi kalasasispkc@gmail.com, arulsteffi96@gmail.com

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Venue: Fr. Causannel Hall

Day 1 (27 - 02 - 2024) Tuesday
Group III

(1.45 pm - 03.30 pm) - Room II

Mode of Presentation: Online
Session Chair: Sr. Kitheriammal, Ms. Joy Beula

Paper ID	Paper Title
ICAMD2024620025	MATHEMATICAL MODELING OF AVIAN INFLUENZA TRANSMISSION DYNAMICS AND ITS STABILITY ANALYSIS: A PANDEMIC AWARENESS A. Joshua Cyril Yagan, D. Jasmine joshuajcy@gmail.com
ICAMD2024620026	A WEAKLY COUPLED SYSTEM OF TWO SINGULARLY PERTURBED DELAY DIFFERENTIAL EQUATIONS OF CONVECTION-DIFFUSION TYPE S. Padmapriya, Dr. M. Joseph Paramasivam padmapriyagacphd@gmail.com, paramasivam.ma@bhc.edu.in
ICAMD2024620027	A Novel Artificial Neural Network Scheme for Solving Singularly Perturbed Convection & Diffusion Problems using Shishkin Mesh - Refinement Algorithm Convection - Diffusion Problems using Shishkin Mesh - Refinement Algorithm Ramiya Bharathi K, Joseph Paramasivam M ramiyabharathik28@gmail.com, paramasivam.ma@bhc.edu.in
ICAMD2024610028	A View on Separation Axioms via Neutrosophic Y-open Sets C. Reena, K. S. Yamini reenastephany@gmail.com, ksyamini@gmail.com
ICAMD2024620029	A Local and Global Stability Analysis of the Graves' Disease Model G. Lavanya, D. Jasmine lavanya.maths19@gmail.com, jasminebhc@yahoo.com
ICAMD2024610032	DETERMINANT OF SOME GRAPHS USING INCYCLE VERTICES Punitha Tharani A, Anesha H R

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(27th - 28th February 2024)

Venue: Fr. Causanne Hall

Paper ID	Paper Title
	punita_tharani@yahoo.co.in , aneshahar@gmail.com
ICAMD2024610033	STRONG SECURE DOMINATION NUMBER AND STRONG CO - SECURE DOMINATION NUMBER OF TWO DIFFERENT NETWORKS <i>Thangam P, Angelin Kavitha Raj S</i> thangamp1993@gmail.com , angelinkavitha.s@gmail.com
ICAMD2024620034	PARAMETER UNIFORM CONVERGENCE OF A FINITE ELEMENT METHOD FOR A SINGULARLY PERTURBED LINEAR REACTION DIFFUSION SYSTEM WITH DISCONTINUOUS SOURCE TERMS AND SAME PERTURBATION PARAMETER <i>Vinoth maruthamuthu, Joseph Paramasivam Mathiyazhagan</i> vinothm.ma.res@bhc.edu.in , paramasivam.ma@bhc.edu.in

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Venue: Fr. Causanne Hall

Day 1 (27 - 02 - 2024) Tuesday		Mode of Presentation: Offline
Group IV		Session Chair: Dr. Therese Sunitha Mary
	(1.45 pm - 3.30 pm)	
Paper ID	Paper Title	
ICAMD2024610053	t-Intuitionistic H-fuzzy bi-ideals of BCK-Algebras <i>M. DHIVYA</i> mdhivya2023@gmail.com	
ICAMD2024610030	SOME NEW RESULTS ON HARARY ENERGY OF GRAPHS <i>Dr. M. Deva Saroja, V. Vinisha</i> mdsaroja@gmail.com , vinishal191@gmail.com	
ICAMD2024610015	THE LATTICE OF CONVEX SUBLATTICES OF S ($B_n \times C_m$) <i>Answin J. Vethamanickam A</i> answinj1996@gmail.com	
ICAMD2024610060	DELVING INTO CELLULAR NEURAL NETWORK VIA VARIOUS ESTRADA INDICES <i>S. NITHYA, G. MANJU</i> nithyavsc@gmail.com , manjuganesan20@gmail.com	
ICAMD2024610018	THE PEBBLING NUMBER OF SOME FLOWER GRAPHS <i>K. Christy Rani, I. Dhiviyasandham</i> christy.rane@gmail.com , dhivyaasi@gmail.com	
ICAMD2024610046	ON SPLIT DOMINATION COVER RUBBLING <i>A. Lourdasamy, R. Laxmi Priya, I. Dhiviyasandham</i> lourdhasamy15@gmail.com , rlaxmipriya@gmail.com , dhivyaasi@gmail.com	
ICAMD2024610055	On the Computation of the Metric Dimension of Unit Graph <i>Priscil V</i> priscivictor97@gmail.com	
ICAMD2024610057	EXCELLENT MATHEMATICS OF LOTUS TEMPLE <i>Ar. A. Bhuvaneshwari</i>	
ICAMD2024610067	MATHEMATICAL REVELATIONS FOR BIG DATA ANALYTICS <i>Dr.A.Jasmine Xavier, S. Isabel P. Jemima Hannah, M. Sathyanamari Abi</i> jtony2012@gmail.com	

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(27th - 29th February 2024)

Venue: Fr. Causannel Hall

Day 1 (27 – 02 – 2024) Tuesday

Group V

Room I (5.00 pm – 6.00 pm)

Mode of Presentation: Online

Session Chair: Dr. Lourdasamy A

Paper ID	Paper Title
ICAMD2024620035	SOME NEW FAMILIES OF SUM DIVISOR CORDIAL GRAPHS K. Periasamy, K. Veengopal, P. Lawrence Rosario Raj kperiasamy87@gmail.com, drveengopal2013@gmail.com, lawmorthsgraph@gmail.com
ICAMD2024600038	ANALYSIS ON ONLINE LEARNING OF MATHEMATICS AND STUDENT'S ATTITUDE A. Arana, Dr. PL. Meenakshi 22ma001@stnsv.ac.in, meenakshi_ma@stnsv.ac.in
ICAMD2024610039	EARLY PREDICTION STAGES OF RENAL DISEASE USING A MACHINE LEARNING APPROACH Mr. K. Kottaisamy, Dr. S. Chidambaraman kottaisamy@gmail.com, scharan2009@gmail.com
ICAMD2024610040	STUDY ON AWARENESS ABOUT RECENT REGULATIONS IN UPI AMONG USERS R. Ragavi, Dr. PL. Meenakshi 22ma008@stnsv.ac.in, meenakshi_ma@stnsv.ac.in
ICAMD2024640041	A NEW CLASS OF OPEN SETS K. Mathufalsani, M. Gilbert Ram sweetweather20@gmail.com, gilmathuac@gmail.com
ICAMD2024710042	ON ALPHA PRODUCT OF HESITANCY FUZZY GRAPHS AND INTUITIONISTIC HESITANCY FUZZY GRAPHS SUNIL M.P., J SURESH KUMAR sunilmp.mv@gmail.com
ICRTDS202401051	Navigating Man-in-the-Middle Vulnerabilities: Understanding, Defense, and Forward Strategies S.G.M. Shadab sghshadab@gmail.com

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(27th - 29th February 2024)

Venue: Fr. Causannel Hall

Day 1 (27 – 02 – 2024) Tuesday

Group VI

Room II (5.00 pm – 6.00 pm)

Mode of Presentation: Online

Session Chair: Sr. Kitheriammal, Ms Joy Beula

Paper ID	Paper Title
ICAMD2024600043	EFFICIENT DETECTION OF FALSE DATA INJECTION ATTACKS IN POWER SYSTEMS USING MACHINE LEARNING Ranya Hysanur Lourdassamy, Gomathi Veengopal rahil15@gmail.com
ICAMD2024620044	A COMPUTATIONAL PERSPECTIVE OF NEURAL NETWORK BASED MACHINE LEARNING APPROACH FOR SINGULAR PERTURBATION PROBLEMS Jenelin Arluna, Joseph Paramasivam Mathiyazhagan
ICAMD2024610045	SECURE MONOPHONIC DOMINATION NUMBER OF GRAPHS AND ITS COMPLEMENT Dr. K. Sumitha, D. Josephine Divya ksunithasam@gmail.com, divyajosephine1999@gmail.com
ICAMD2024610047	PAIR MEAN CORDIAL LABELING OF SNAKE GRAPHS S PRABHU selvanprabhu12@gmail.com
ICAMD2024620048	The generalization of k- tuple Complete Partitions of Integers Dr. P. Geetha maxgeetha@gmail.com
ICAMD2024620050	PYTHON EXPLORATION OF SHORTEST PATH ALGORITHMS IN COMPLETE PARTITIONS Dr. P. Geetha maxgeetha@gmail.com

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Venue: Fr. Causannel Hall

Day 1 (27 - 02 - 2024) Tuesday
Group VII

Room III (5.00 pm - 6.00 pm)

Mode of Presentation: Online
Chair: Dr. Jenifer Johny Mary A, Josephine Theresa S

Paper ID	Paper Title
ICAMD2024610051	Some Properties of Intuitionistic $b^\#$ Interior and $b^\#$ -Closure in Intuitionistic Topological Spaces C.VELLRAJ vellraj.c79@gmail.com
ICAMD2024620052	Mathematical Modeling of Avian Influenza Transmission Dynamics and its Stability Analysis: A Pandemic Awareness A. Joshua Cyril Yagan joshuajcy@gmail.com
ICAMD2024610054	A New Form of Contra Continuous in Intuitionistic Topological Spaces Dr. J. Arul Jesti, F. Monisha aruljesti@gmail.com, monishasnows@gmail.com
ICAMD2024610056	Implementation of Time series control charts using PCA and ARIMA model R. Sasikumar, M. Sujatha sasikumarmisu@gmail.com, sujathaa11091998@gmail.com
ICAMD2024610058	Primitive Idempotents of Some Irreducible Cyclic Codes of Length 16^n Monika Sangwan, Nikita Tehlan

INTERNATIONAL CONFERENCE ON APPLICATION OF MATHEMATICS IN DATA SCIENCE

ST. XAVIER'S COLLEGE (AUTONOMOUS)
(Recognized as "College with Potential for Excellence" by UGC)
(Accredited at "A" Grade with a CGPA of 3.66 out of 4 in IV cycle by NAAC)
PALAYAMKOTTAI, THIRUNELVELI - 627002
(27th - 28th February 2024)

Venue: Fr. Causannel Hall

ICAMD2024610059	nikitatehlan.rs.maths@mdurohtek.ac.in, mssangwan.maths@mdurohtek.ac.in A NOVEL METHOD OF SOLVING UNCERTAIN DIFFERENTIAL EQUATIONS Gethsi Sharmila R, Suvitha S gethsisharmila@gmail.com, suvithasobers@gmail.com
-----------------	---

Day 2 (28 - 02 - 2024) Tuesday
Group VIII

(8.45 am - 10.35 am)

Mode of Presentation: Offline
Session Chair: Dr. Lourdasamy A, Dr. Natarajan A

Paper ID	Paper Title
ICAMD2024610036	BEST PROXIMITY PAIR THEOREM FOR GENERALIZED REICH TYPE CYCLIC MEIR-KEELER CONTRACTION MAPPING ON TOPOLOGICAL SPACES S. Sahayarajoseph Nirmalkumar, S. Sujith hsnirmal@gmail.com, sujitha123@gmail.com
ICAMD2024610061	CHARACTERIZATION OF $[1,2]$ -DOMINATION NUMBER IN GRAPHS S.S. NATHAN KUMAR
ICAMD2024610062	DERIVATIVES IN BANACH SPACE K. NIVETHA
ICAMD2024610063	DOMINATION POLYNOMIAL OF CYCLES A.S. NIVETHYTHA
ICAMD2024610064	FIXED POINT THEOREM IN b-METRIC SPACE I. ABIRCT
ICAMD2024610065	DOMINATION POLYNOMIAL OF WHEELS M. ABROSE
ICAMD2024610066	NON-ZERO COMPONENT GRAPH OF A FINITE DIMENSIONAL VECTOR SPACE K. JAYAPRIYA
ICRTDS202401053	APPLICATIONS OF ARTIFICIAL INTELLIGENCE IN VARIOUS FIELDS Rhad David Barak I isdavid0906@gmail.com

INTERNATIONAL CONFERENCE ON APPLICATION OF MATHEMATICS IN DATA SCIENCE

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(Recognized as "College with Potential for Excellence" by UGC)
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PALAYAMKOTTAI, TIRUNELVELI - 627002
(27th - 29th February 2024)

Venue: Fr. Causanne Hall

Paper ID	Paper Title
ICRTDS202401054	IMPACT OF AI IN AUTOMOBILE INDUSTRY (IN INDIA) Kevin Silva K kevinelsa2009@gmail.com
ICRTDS202401055	CORDIAL LABELLING V. Balasubramanian balakumar@hassam@gmail.com
ICRTDS202401056	Using of WEKA Tool In Data Mining Aashvi Ashima A aashvimaashmi@gmail.com
ICRTDS202401057	ARTIFICIAL INTELLIGENCE POWDERED METAVERSE: ANALYSIS, CHALLENGES AND FUTURE PERSPECTIVES M Periyasvasi periyasvasiperiyasvasi0957@gmail.com
ICRTDS202401058	NATURAL LANGUAGE PROCESSING FOR LEGAL DOMAIN AND LOW RESOURCE LANGUAGE Aparna M ahimam3003@gmail.com



GPS Map Camera



Google

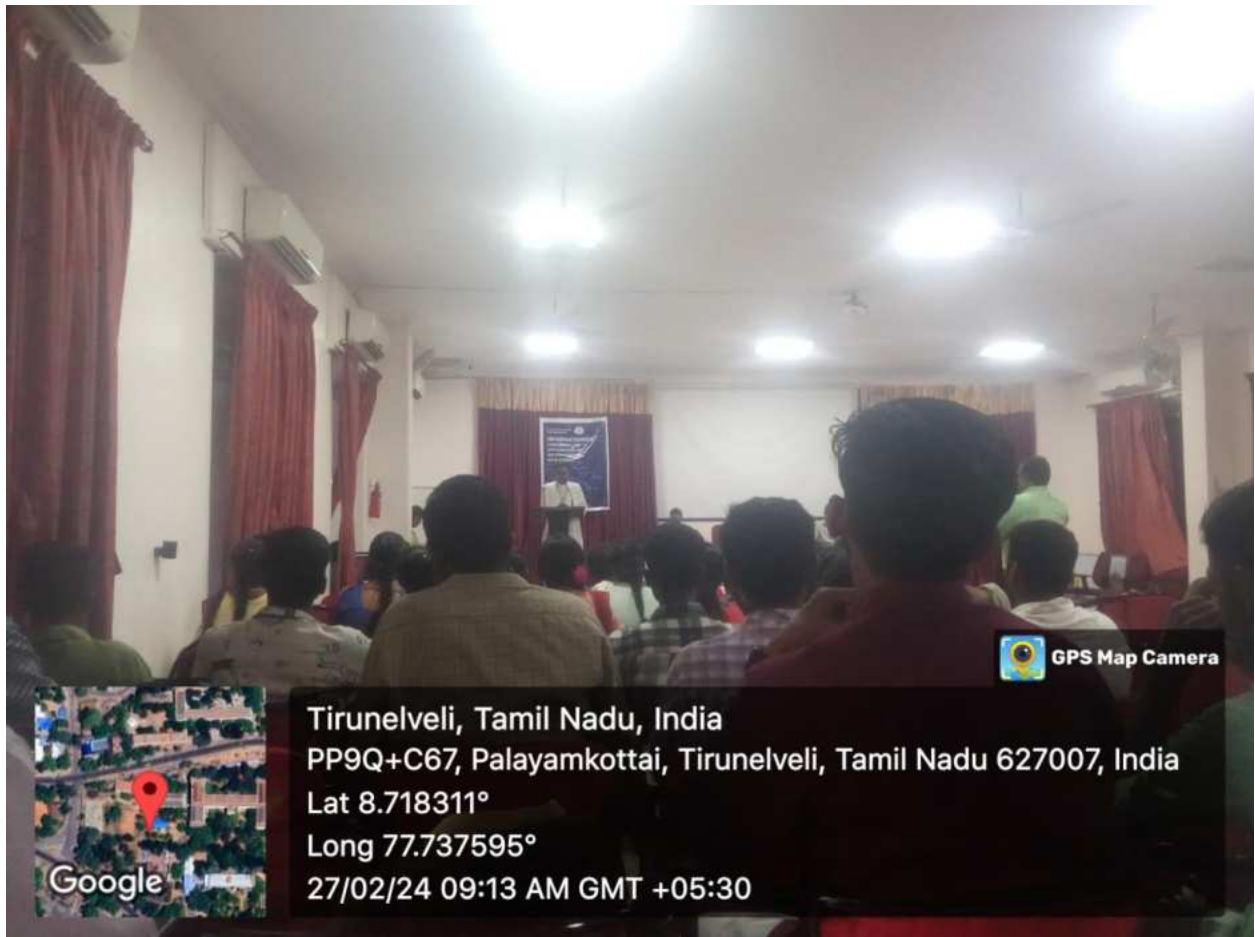
Tirunelveli, Tamil Nadu, India

70, S Bazaar, Palayamkottai, Tirunelveli, Tamil Nadu 627002, India

Lat 8.722895°

Long 77.737161°

27/02/24 09:12 AM GMT +05:30



GPS Map Camera



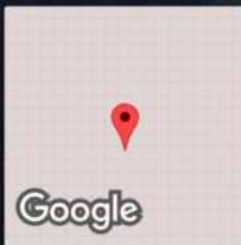
Tirunelveli, Tamil Nadu, India

PP9Q+C67, Palayamkottai, Tirunelveli, Tamil Nadu 627007, India

Lat 8.718311°

Long 77.737595°

27/02/24 09:13 AM GMT +05:30



Tirunelveli, Tamil Nadu, India

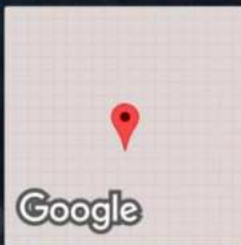
PP9Q+8QF, High Ground Rd, Palayamkottai, Tirunelveli, Tamil Nadu 627007, India

Lat 8.718454°

Long 77.739212°

27/02/24 09:19 AM GMT +05:30






Tirunelveli, Tamil Nadu, India

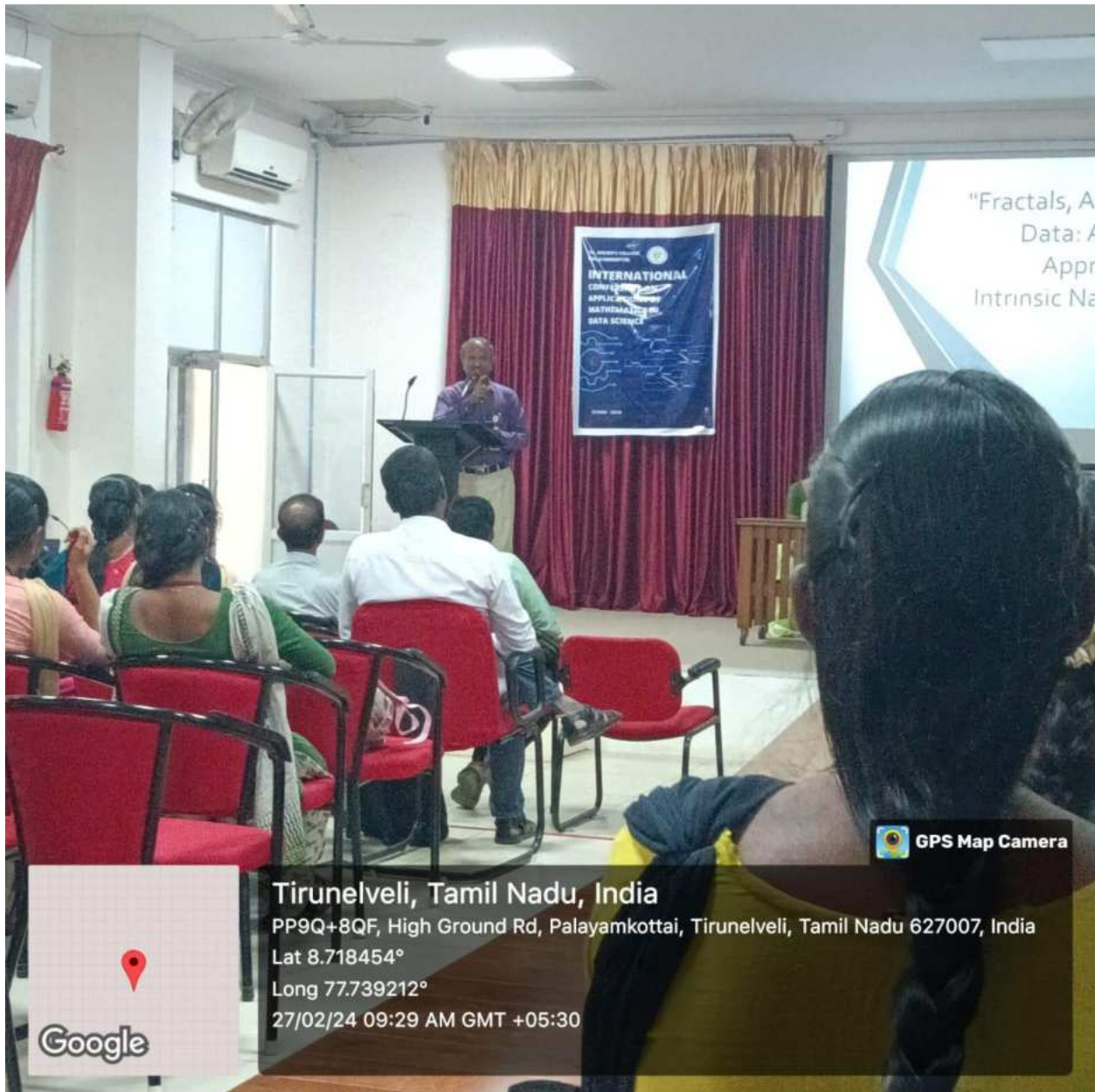
PP9Q+8QF, High Ground Rd, Palayamkottai, Tirunelveli, Tamil Nadu 627007, India

Lat 8.718454°

Long 77.739212°

27/02/24 09:23 AM GMT +05:30

 GPS Map Camera



Tirunelveli, Tamil Nadu, India

PP9Q+8QF, High Ground Rd, Palayamkottai, Tirunelveli, Tamil Nadu 627007, India

Lat 8.718454°

Long 77.739212°

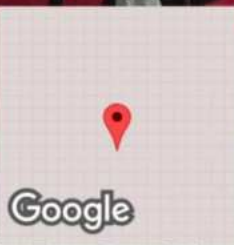
27/02/24 09:29 AM GMT +05:30

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Tirunelveli, Tamil Nadu, India

PP9Q+8QF, High Ground Rd, Palayamkottai, Tirunelveli, Tamil Nadu 627007, India

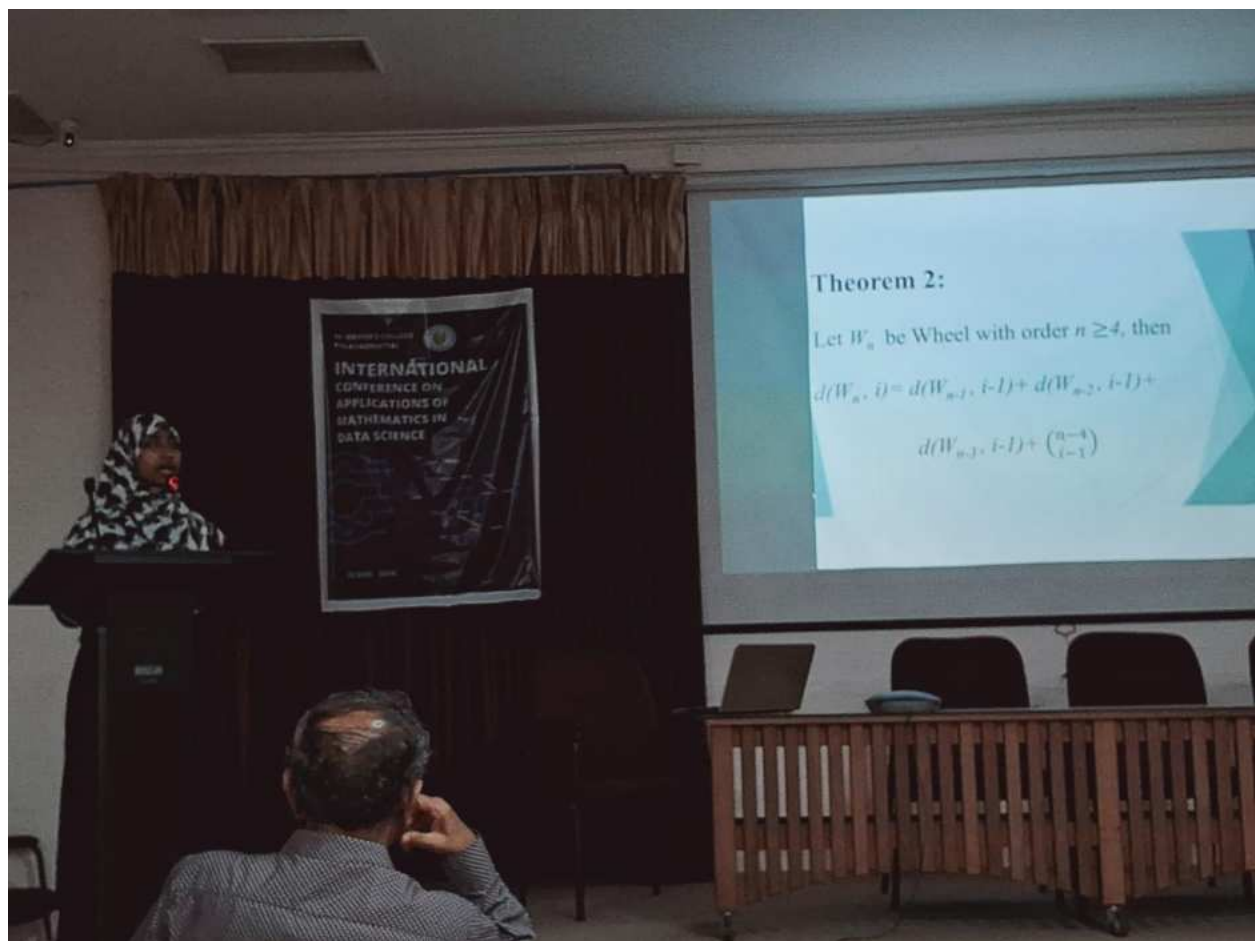
Lat 8.718454°

Long 77.739212°

27/02/24 09:35 AM GMT +05:30









JAYARAJ ANNAPACKIAM COLLEGE FOR WOMEN (AUTONOMOUS)

PERIYAKULAM - 625 601, THENI DT.

Accredited with 'A' Grade in 4th Cycle by NAAC
OBT - FIST Supported College

(Affiliated to Mother Teresa Women's University, Kodaikanal)

Res : 04548 - 231482
Off : 04548 - 231482
Fax : 04548 - 231482

Dr. Sr. S. Jesurani, M.Sc., M.Phil., B.Ed., PGDCA, Ph.D.
Principal

Website : www.annajac.ac.in
E-mail : principal@annajac.ac.in

Date: 22.01.2024

To

Dr. Y. Therese Sanitha Mary,
Head, Department of Mathematics,
St. Xavier's College, Palayamkottai

Dear Madam,

Warm Greetings from JAC!

Thank you very much for your consent to be the Reviewer to review the Research articles in Mathematics, for the "JAC Journal of Science, Humanities and Management" (JACJOSHAM, ISSN: 2347-9868 Biannual) published by our College to inspire, recognize and support quality in Research.

I am pleased to inform you that this assignment is for a period of three academic years 2023 - 2026 and I solicit your support for the success of the journal.

Thank you

With regards

Principal

Jayaraj Annapackiam College
for Women (Autonomous)
Periyakulam - 625 601
Theni District

Review Report - A COMPREHENSIVE REVIEW ON TRIANGLE AND TRAPEZOIDAL FUZZY NUMBERS IN DECISION-MAKING PROCESSES

Dr. Y. Therese Sunitha Mary Maths Department SXCRG

Jun 3, 2024, 11:04AM

jacosham JAC

~ With Regards, Dr. M. Kalanithi, Dean of Research and Associate Professor of Chemistry, Jayaraj Annamalai College for Women (Autonomous), Periyakulam, Thiruv

Jun 3, 2024, 11:04AM

jacosham JAC -> jacosham@annajac.ac.in

to me

Thank you very much for reviewing the article titled "A COMPREHENSIVE REVIEW ON TRIANGLE AND TRAPEZOIDAL FUZZY NUMBERS IN DECISION-MAKING PROCESSES" for JACOSHAM Issue 2024 issue

Thank you

With Regards,

Dr. M. Kalanithi,

Dean of Research and Associate Professor of Chemistry,

Jayaraj Annamalai College for Women (Autonomous),

Periyakulam, Thiruv

Mob No: 9488177817

Google scholar id: [gQ5N7UAAAAJ](https://scholar.google.com/citations?user=gQ5N7UAAAAJ)

Scopus id: <https://www.scopus.com/authid/detail.url?authorId=16991137100>

ORCID id: <https://orcid.org/0000-0002-8714-4548>

Researcher id (Web of Science): [AAW-9435-2021](https://orcid.org/0000-0002-8714-4548)



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Rs. 20/-

04AC 024897

ST. XAVIER'S COLLEGE
(Autonomous)
PALAYAMKOTTAI - 627 002.

M. VELMURUGAN

STAMP VENDOR L.No.2/2003
2, Thirupugal Street,
PALAYAMKOTTAI,
TAMIL NADU.

Memorandum of Understanding

between

St. Xavier's College (Autonomous), Palayamkottai
Tamil Nadu, India

Represented by the Principal, Rev. Dr. S. Mariadoss, S.J., St. Xavier's College (autonomous),
Palayamkottai, Tamil Nadu, India.

and

University of Jaffna, Jaffna

P.O. Box. 57, Thirunelvely

Sri Lanka

Represented by the Vice – Chancellor, Prof. S. Srisatkunarajah, University of Jaffna, Jaffna,
Sri Lanka

1. Disposition

St. Xavier's College, Palayamkottai, is an autonomous institution offering undergraduate, post-graduate and Ph.D. programmes on various s humanities, science and social science disciplines

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Prof. S. Srisatkunarajah
B.Sc(Hons) Jaffna, PGDE(Merit) OUSL
Ph.D Heriot - Watt
Professor in Mathematics
Vice Chancellor
University of Jaffna

and is affiliated to Manonmaniam Sundaranar University, Tirunelveli. The college is included in the list of colleges maintained under Section 2 (f) & 12 (B) of the UGC Act, 1956, under the non-government colleges teaching up to postgraduate degree. The college is accredited by NAAC at A⁺⁺ grade with a CGPA of 3.66 out of 4 in IV cycle held in August, 2019. At present, the college commemorates its 100th year.

The Postgraduate and Research Department of Folklore, St. Xavier's College (autonomous), Palayamkottai, is a pioneering institution offering M.A. and Ph. D. in Folklore, in Tamil Nadu state, South India. The Post-graduate course offered by the department, with a multidisciplinary curriculum, provides the students exposure to the diverse cultural practices, artistic expressions, life-style activities and facilitate them to understand the various folkloric forms from both native and critical perspective. This programme also trains the students to develop critical thinking in folklore and develop reading and writing skills as means to express their ideas and enrich their career.


Department of Fine Arts, University of Jaffna is one of the pioneer institutions in Sri Lanka that involves with teaching and researching art history both at undergraduate and postgraduate level. The Art History study programme at the University of Jaffna offers a diverse, comprehensive curriculum in the history of global and local cultures. Students learn how to articulate and express their ideas about art while developing research, exhibition display and writing skills as tools for communicating about art.

2. Purpose of Agreement


The Postgraduate and Research Department of Folklore, St. Xavier's College (autonomous), Palayamkottai, Tamil Nadu, India, and the Fine Arts Department of the University of Jaffna, Jaffna, Sri Lanka, have planned collaborating with each other in academic engagements and joint research endeavors involve with conducting research on visual culture organizing seminars, conferences, workshops and guest lectures. This MoU establishes an academic partnership, and is entered into with the intention of facilitating future joint initiatives and collaborative projects between the Postgraduate and Research Department of Folklore, St. Xavier's College (autonomous), Palayamkottai, and Fine Arts Department of the University of Jaffna, Jaffna. This MoU fronts an enhanced cooperation between the two institutions extending to all areas of mutual interest, shared knowledge and expertise, and research and scholarship across a wide range of initiatives and/or activities related, but not limited to the visual studies and folklore. The partners also agree to share resources and spaces when required as a support structure for collaborative projects. These support structures will be decided upon collaboratively, taking into consideration individual capacities.

The broad objectives of this MoU are:

- (a) Exchange of academic staff, researchers, students, artists and other professionals for the planning and implementation of visiting lectures, curriculum research and development, research initiatives, internship and training programmes and curatorial research and exhibitions (where relevant).
- (b) Strengthening academic and research potentials through joint research initiatives, teaching, training programmes, symposiums, conferences, workshops and other such activities
- (c) Publishing select research works on interdisciplinary areas on visual culture and folklore


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Ph.D Heriot - Watt
Professor in Mathematics
Vice Chancellor
University of Jaffna

3. Teaching


- (a) The Postgraduate and Research Department of Folklore, St. Xavier's College (autonomous), Palayamkottai, Tamil Nadu, India, may contribute towards the courses of study and curricula at the Department of Fine Arts of University of Jaffna, by providing teaching expertise and specialised knowledge on Folklore through lectures and other contributions upon invitation.
- (b) The Department of Fine Arts, University of Jaffna, Jaffna, Sri Lanka, may contribute towards the courses of study and curricula at The Postgraduate and Research Department of Folklore, St. Xavier's College (autonomous), Palayamkottai, by providing teaching expertise and specialised knowledge on Visual Studies through lectures and other contributions upon invitation.
- (c) The Postgraduate and Research Department of Folklore, St. Xavier's College (autonomous), Palayamkottai, Tamil Nadu, India, may extend invitations to teaching staff at the Department of Fine Arts, University of Jaffna, Jaffna, Sri Lanka, as visiting faculty to contribute guest lectures, workshops, seminars, public talk and also serve as external examiners for courses of study at the Department.
- (d) The Department of Fine Arts, University of Jaffna, Jaffna, Sri Lanka, may extend invitations to teaching staff at the Postgraduate and Research Department of Folklore, St. Xavier's College (autonomous), Palayamkottai, Tamil Nadu, India, as visiting faculty to contribute guest lectures, workshops, seminars and public talk or serve as external examiners for courses of study at the Department.

4. Seminars, Conferences, Workshops


- (a) Both the Postgraduate and Research Department of Folklore, St. Xavier's College (autonomous), Palayamkottai, Tamil Nadu, India, and the Department of Fine Arts, University of Jaffna, Jaffna, Sri Lanka, may jointly organize seminars, conferences, workshops and training programmes at either of the institutions depending upon the feasibilities.
- (b) Both the Postgraduate and Research Department of Folklore, St. Xavier's College (autonomous), Palayamkottai, Tamil Nadu, India, and the Department of Fine Arts, University of Jaffna, Jaffna, Sri Lanka, may jointly publish the outcomes of the seminars, conferences and workshops (that are organized jointly by both institutions) as monographs, proceedings and edited books with a clear mention of both institutions.

5. Research

Both the Postgraduate and Research Department of Folklore, St. Xavier's College (autonomous), Palayamkottai, Tamil Nadu, India, and the Department of Fine Arts, University of Jaffna, Jaffna, Sri Lanka, may jointly evolve research projects to study the shared visual culture between South India and Sri Lanka.


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Prof. S. Srisatkunarajah
B.Sc(Hons) Jaffna, PGDE(Merit) OUSL
Ph.D Heriot - Watt
Professor in Mathematics
Vice Chancellor
University of Jaffna

6. Coordinator

To ensure and facilitate the implementation of the measures of this agreement, each institution shall appoint a member of its staff to serve as the Coordinator. The Coordinator shall also function as the main and first point of contact in any matters pertaining to this agreement, and in the case of an emergency. From the Postgraduate and Research Department of Folklore, St. Xavier's College (autonomous), Palayamkottai, Tamil Nadu, India, the Coordinator will be Head and from the Fine Arts Department of University of Jaffna the Coordinator will be the Head.

7. Duration

This MoU shall be valid for collaborations for one year from the date of signing the agreement and shall be renewed if the review of the initiatives and/or collaborative projects undertaken during this period is seen as fruitful by both partners.

The parties to the agreement will not be liable for potential loss or restrictions that arise unintentionally or by force majeure, especially because of the cancellation of working hours in administration and academic affairs.

8. Visibility and Intellectual Property

The Postgraduate and Research Department of Folklore, St. Xavier's College (autonomous), Palayamkottai, Tamil Nadu, India, as well as that of the Department of Fine Arts, University of Jaffna, Jaffna, Sri Lanka, are to appear on all digital and analog publicity material produced for joint initiatives and collaborative projects to make the partnership visible. The Logos shall remain the property of each entity and the license to use each other's logos on publicity material shall only be for the duration of the MOU and after prior written approval of the manner in which they are used by each entity.

All intellectual property used or created in the course of providing services by The Postgraduate and Research Department of Folklore, St. Xavier's College (autonomous), Palayamkottai, shall remain proprietary to it.

All intellectual property used or created in the course of providing services by Department of Fine Arts, University of Jaffna, Jaffna, Sri Lanka, shall remain proprietary to it.

Any intellectual property created in the course of joint initiative by The Postgraduate and Research Department of Folklore, St. Xavier's College (autonomous), Palayamkottai, and the Department of Fine Arts, University of Jaffna, Jaffna, Sri Lanka, will accrue to the both parties.

9. Changes and Validity

- (a) This agreement shall come into effect as of the day of its ratification by the representatives of both institutions and is valid for the time period specified above, which is one year from the date of ratification.
- (b) The agreement shall be renewed automatically on a yearly basis if notice of termination is not given six months before expiration. Activities between the institutions that have already begun at the time of termination shall be carried out and supervised until the originally planned date of termination.


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Prof. S. Srisatkunaraiah
B.Sc(Hons) Jaffna, PGDE(Merit) OUSL
Ph.D Heriot - Watt
Professor in Mathematics
Vice Chancellor
University of Jaffna

(c) This agreement may be altered by mutual agreement in writing.

(d) In order to realize and implement the agreement, two identical copies of the agreement shall be signed by the partners in English. One copy will remain with each partner.

This agreement is an expression of goodwill on both sides. Problems that might arise due to interpretation, fulfilment or further development of the agreement shall be resolved by mutual agreement.



Prof. S. Srisatkunarajah
Vice - Chancellor
University of Jaffna, Jaffna
Sri Lanka

20/02/2023

Prof. S. Srisatkunarajah
B.Sc(Hons) Jaffna, PGDE(Merit) OUSL
Ph.D Heriot - Watt
Professor in Mathematics
Vice Chancellor
University of Jaffna



Rev. Dr. S. Mariadoss, S.J.,
Principal

St. Xavier's College (autonomous), Palayamkottai
Tamil Nadu, India

**PRINCIPAL
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(Autonomous)
PALAYAMKOTTAI**

At the presence of



Prof. T. Sanathanan

Head

Department of Fine Arts
University of Jaffna, Jaffna

Head

Department of Fine Arts
Faculty of Arts
University of Jaffna



Dr. J. Joseph Antony Raj
Head

PG & Research Department of Folklore
St. Xavier's College (autonomous), Palayamkottai

**Dr. J. JOSEPH ANTONY RAJ
Asst. Professor & Head
P.G. & Research Department of Folklore
St. Xavier's College (Autonomous)
Palayamkottai - 627 002.**



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Rs. 20/-

19 APR 2022

M. VELMURUGAN
STAMP VENDOR L.No.2/2003
2, Thirupugal Street,
PALAYAMKOTTAI,
TAMIL NADU.

Memorandum of Understanding Preamble

Through this memorandum of understanding (hereinafter referred to as MoU), The M/S. RAJAN AQUAFARM, Sackkammalpuram and ST. XAVIER'S COLLEGE (AUTONOMOUS), Palayamkottai to develop a special relationship. This MoU is made and entered into on this 2nd May, 2022.

Between

The M/S. RAJAN AQUAFARM, Sackkammalpuram having its office at Sackkammalpuram, which expression, unless repugnant to the context or meaning hereof shall include its successors, administrators or permitted assignees and at present represented by Managing Director or his representatives

And

Rajan



[Signature]
PRINCIPAL
ST. XAVIER'S COLLEGE
(Autonomous)
PALAYAMKOTTAI-627 002

ST. XAVIER'S COLLEGE (AUTONOMOUS), Palayamkottai with its registered office at Palayamkottai which expression, unless repugnant to the context or meaning hereof shall include its successors, administrators or permitted assignees; and at present represented by their Principal or his representative.

Of the other part,
Hereinafter referred to as "Parties"
Whereas

M/S. RAJAN AQUAFARM, Sackkammalpuram a private owned farm engaged in culturing and marketing the ornamental fishes throughout India.

Whereas

ST. XAVIER'S COLLEGE (AUTONOMOUS), Palayamkottai is an educational institution imparting education in the fields of arts and sciences of various branches to the students who have completed their Higher Secondary Education

Whereas

M/S. RAJAN AQUAFARM, Sackkammalpuram and ST. XAVIER'S COLLEGE (AUTONOMOUS), Palayamkottai have agreed to enter into a special relationship for the purpose of the former entities providing the latter comprehensive techniques for culturing and rearing the ornamental fishes for the students to get employment opportunities.

Now therefore

in recognition of these facts M/S. RAJAN AQUAFARM, Sackkammalpuram and ST. XAVIER'S COLLEGE (AUTONOMOUS), Palayamkottai witnessed that in consideration of mutual covenants set out in this MoU, the parties hereby agree as follows

1. Purpose of the memorandum

This MoU is intended to recognize the general basis for a cooperative and collaborative working relationship between the two parties.

The objectives of the proposed relationship is to enable M/S. RAJAN AQUAFARM to provide to the ST. XAVIER'S COLLEGE (AUTONOMOUS) fulfill the technical assistance to the students for culturing, rearing and preparing various fish feed for ornamental fishes. Each by mutual consent, may involve in the cooperative and collaborative actions any of its controlled affiliates competent in the concerned action.

2. Nature of memorandum

Through this MoU M/S. RAJAN AQUAFARM and ST. XAVIER'S COLLEGE (AUTONOMOUS) intend to develop a special relationship, whereby effective skill on

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PALAYAMKOTTAI - 627 001

ornamental fish culture and training to the most extend possible from time to time are provided to the college at special concessionary and competitive manner.

3. Responsibilities

3.1. M/S. RAJAN AQUAFARM and ST. XAVIER'S COLLEGE (AUTONOMOUS) shall be responsible for the conduct of the assigned responsibilities neither RAJAN AQUAFARM nor the ST. XAVIER'S COLLEGE (AUTONOMOUS) shall be responsible to the other parties for any loses that they may suffer arising out of understanding.

The parties shall responsible for insuring their respective premises, equipment and personnel for any claims that may arise from the conduct of the understanding.

3.2. M/S. RAJAN AQUAFARM agrees to share the knowledge resources with the college by expertise from RAJAN AQUAFARM in the seminars, conferences, workshops as well as in research etc. conducted at the premises of the college for the purpose of enhancing the knowledge / skill levels of the students studying in the COLLEGE.

3.3. The COLLEGE agrees to avail all the services from RAJAN AQUAFARM during the period of their MoU.

3.4. M/S. RAJAN AQUAFARM agrees to offer training for growing ornamental fishes at a very nominal rate to the students and staff and to entertain the students and faculty members to visit RAJAN AQUAFARM

3.5. M/S. RAJAN AQUAFARM agrees to offer skill based dissemination of knowledge in the form of training using the latest technology in promoting ornamental fishes as well as preparing a variety of fish feed.

3.6. M/S. RAJAN AQUAFARM agrees to provide information related to job opportunities to the students by promoting ornamental fish culture.

3.7. The farm visit is for one day. The students who visit the farm will be given first hand information about the feeding, culture and growth techniques of fishes for the students and also various types of services and facilities available in RAJAN AQUAFARM.

3.8. No stipend shall be paid by RAJAN AQUAFARM for the training.

3.9. The students deputed by the COLLEGE for the training neither shall nor claim any right for appointment in RAJAN AQUAFARM.



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4. Status of MoU

This MoU is intended to record mutual understanding of the parties hereto as to the date hereof.

To discharge the responsibilities of the party and/or specific obligation or financial commitment appear necessary to the parties, the parties by mutual consent shall enter directly (or through the concerned affiliate) into specific agreement(s) defining in detail the respective obligations and commitments of each party and particular the programme of work and the financial conditions of its execution.

5. Validity

The MoU is for a period of one year from the date of signing. The parties shall meet to decide a possible renewal of this MoU three months before its termination. This specific addendum shall be then signed by the parties.

6. Amendment

6. Amendment
The MoU may be amended upon the mutual consent of all parties but such amendment shall have no impact on any specific agreement then in force.

7. Termination

7. Termination
This MoU may be terminated by any party upon providing a written notice of three months.

The expiry or termination of this MoU shall have no impact on any other specific agreement in force, which shall continue upon its normal expiry.


8. Arbitration

8. Arbitration
This MoU shall be subject to exclusive jurisdictions of courts in which the location of the College where there is presence of RAJAN AQUAFARM. The parties in the disputes share equally the cost of arbitration as intimated by the arbitrator.

9. Confidentiality

7. Confidentiality
All parties acknowledge the confidentiality of information which may be transferred between the parties from time to time as being essential to this MoU and agree not to disclose the same to any third party. However each party shall be free to disclose such information as its part of public domain at the time of disclosure, or required to be disclosed by official authorities in accordance with the applicable law. The obligations all parties as defined above shall apply notwithstanding termination of this MoU as witnessed by the hand of duly authorized representative of the parties, as of the date hereunder.

Signature



Signature



தமிழ்நாடு தமில்நாடு TAMIL NADU Rs. 20/-

ST. XAVIER'S COLLEGE
(Autonomous)
PALAYAMKOTTAI - 627 002.

27 JAN 2023

04AC 101155
M. VELMURUGAN
STAMP VENDOR L.No.2/2003
2, Thirupugal Street;
PALAYAMKOTTAI,
TAMIL NADU.

ZWORK TECHNOLOGY

ST. XAVIER'S COLLEGE (AUTONOMOUS),
PALAYAMKOTTAI, TAMIL NADU

ZWORK TECHNOLOGY,
TIRUCHIRAPPALLI, TAMIL NADU

MEMORANDUM OF UNDERSTANDING (MoU)

Between

ST. XAVIER'S COLLEGE (AUTONOMOUS), PALAYAMKOTTAI, TAMIL NADU

And

ZWORK TECHNOLOGY, TIRUCHIRAPPALLI

This Agreement is made on the 27th day of June 2024 between St. Xavier's College, Palayamkottai (SXCP) represented by its principal, Rev. Fr. Dr. S. Mariadoss. S. J., (here in after referred to as "SXCP" or as the first party) and Zwork Technology, Tiruchirappalli, represented by its founder and CEO Mr. Rajamurugan Thirumaran as "ZWTT" or as second party.



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Purpose

Whereas,

- a. **St. Xavier's College (Autonomous), Palayamkottai** is a Jesuit college of Arts and Science affiliated to Manonmaniam Sundaranar University, Tamil Nadu, India. Jesuit Fathers founded the college in 1923. UGC granted Autonomy in the year 1987. UGC conferred on our college the status of "College with Potential for Excellence" in 2004, for the second phase in 2010 and for the third phase in 2014. The College was accredited at A⁺⁺ Grade with a GCPA of 3.66 out of 4 in 2019 in the fourth cycle with the validly period of sevenyears by NAAC.
- b. **St. Xavier's College (Autonomous), Palayamkottai** is desirous to associate with **M/s. Zwork Technology, Tiruchirappalli** on various areas as discussed in the Purview of this MoU, which will be mutually beneficial to both organizations.

Whereas,

- c. **Zwork Technology**, located at **M/s Zwork Technology, No. 10/2A, KSH Illam, First Floor, SIMCO Road, LIC Colony, Rajaji Street, Ayyapan Nagar, Tiruchirappalli - 620021**, referred to as the Second Party, specializes in Software Development and Digital Marketing services. The company is deeply involved in Skill Based Training, Industrial Connect, Career Guidance, and Experts Lecture. It is a Proprietorship Company registered and headquartered in Tiruchirappalli with operations expanding to entire India, is run by a board comprised as a Proprietorship Company established under the Companies Act, 2013 (18 of 2013) on 1st Jan 2023. The Permanent Account Number of the Company is DOKPR5517E, GST IN: 33DOKPR5517E1ZV, and MSME: UDYAM-TN-27-0082685. Led by a team of experienced professionals educated at prestigious Jesuit institutions, the key objective of the company is to address the digital divide between the academia and the industry.
- d. **Zwork Technology, Tiruchirappalli** is desirous to associate with **St. Xavier's College (Autonomous), Palayamkottai** on various areas as discussed in the Purview of this MoU, which will be mutually beneficial to both organizations.



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NOW THEREFORE THIS MEMORANDUM OF UNDERSTANDING WITNESSES AS FOLLOWS

1. OBJECTIVE:

The parties agree that the objective of the present Memorandum of Understanding (MoU) is to establish a cooperation program aimed at fostering collaboration for the advancement and enrichment of students, academics, and researchers in their respective fields of interest.

2. METHOD FOR ACHIEVING THE OBJECTIVES:

In order to achieve the aforementioned objectives, both parties, in mutual agreement, shall collaborate to develop cooperation programs and projects. These initiatives will delineate the commitments each party must undertake to execute the programs effectively.

3. AREAS OF CO-OPERATION:

Whereas **SXCP** and **ZWTT**, recognize that the academic industry collaboration would be of mutual benefit and would provide strengths in research and education and their mutual interest in engaging themselves in academic industry cooperation and filling the per the purpose of the said agreement, the two parties shall:

- i. *Research Collaborations:* Faculty/ Researchers / Students of **SXCP** and **ZWTT** can collaborate in future research projects that involve working cooperatively with partnering industry and/or cover a research topic with an international component. Activities include, but are not limited to, efforts toward developing proposals for collaborative research, co-authoring publication, conducting joint research projects, or establishing joint research centers or sharing credit system etc.
- ii. *Faculty Exchange with Partner Institutions:* Faculty members **SXCP** and Industrial Experts of **ZWTT** can travel between to participate in activities that can enhance their international / national experience and knowledge and to foster relations between the parties. Activities include, but are not limited to, delivering lectures, teaching a course, taking a sabbatical, acquiring skills for institutional governance, and developing collaborative research, industrial connect, soft skills training etc.
- iii. Cooperate in the exchange of information relating to their activities in teaching and research in fields of mutual interests; sharing best practices adopted by each party; sharing



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of e-content between the parties; sharing the credentials of **ZWTT** to carry out research, Data Engineering, Data Modelling, etc.

- iv. The First Party & Second Party believe that collaboration and co-operation between themselves will promote more effective use of each of their resources and provide each of them with enhanced opportunities.

4. SCOPE OF THE MoU:

- 4.1. Skill Training: **ZWTT**, shall deliver training courses as part of In-Plant Training Internship Training, Industrial Training, Faculty Development Programs to the Participants.
- 4.2. Training course includes content delivery and 24/7 hours of lab access from effective date of training start for each batch which shall be communicated earlier and same is mutually agreed.
- 4.3. **SXC** will furnish personal devices and facilitate internet access for participants to connect to the course delivery platform and **ZWORK TECHNOLOGY** as appropriate based on their infrastructure layout/plan.
- 4.4. **ZWTT** will be responsible for the delivery of the courses, periodical assessment of course work and final issuance of course certifications upon course completion.
- 4.5. Student's attendance and progress will be monitored, assessed, and reported to the **SXCP** by the **ZWTT**.
- 4.6. All course materials will be distributed to the **SXCP** by the **ZWTT** digitally.
- 4.7. Guest Lectures: **ZWTT** to extend the necessary support to deliver guest lecturers to the students of the **SXCP** on the technology trends and in house requirements as and when needed by mutual consent.
- 4.8. Career Guidance to trained students: **ZWTT** will actively engage to help the delivery of the training and Career Guidance of the students of the **SXCP** on the technology trends and in house requirements.
- 4.9. **ZWTT** will take up the programs mentioned in MoU. If there is any financial consideration, it will be dealt separately.
- 4.10. Training Fee & Schedule will change on case-to-case basis.

5. CREDITS/ACCREDITATION:

Credits and grades shall be awarded in accordance with the academic achievement policies in force at the Institution/ Host Institution/ Industry. The Host Institution /



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Institution/Industry shall issue a certification recognizing the grades obtained, as well as the hours invested or projects/papers completed by the students.

6. RIGHTS AND DUTIES:

- a. The host institution / Industry is committed to counseling and supporting exchange students through advice on academic and administrative procedures, as well as to foster their integration, inviting and encouraging guest students to become involved in student life.
- b. The institution/ industry shall act as facilitators, but they will have no obligation what so ever in terms of the actions, behaviors or financial aspects of the students / participants involved in the exchange.
- c. The students/participants shall enjoy the same rights and privileges as regular students / faculty, and shall observe the norms and rules of the Host Institution / Industry and in the host country. Any violation of the laws of the receiving country and/or the rules of the Host Institution / Industry by an exchange participant shall be grounds for the immediate termination of the privileges in the context of this Agreement.
- d. The host institution agrees to assist to provide boarding, lodging and necessities and to provide workspace, library, and laboratory facilities as appropriate.

7. AUTONOMY:

This agreement is a statement of intentions and does not involve, in any instance whatsoever, any financial obligations between the subscribing institution/industry.

8. TERM:

- a. This MOU shall be effective for a period of three (3) years from the date of execution of this agreement, and shall be automatically renewed thereafter for another one (1) year unless a written notice to terminate or amend this agreement is given to the other party six (6) months in advance.
- b. It is expressly agreed that neither party shall be liable for damages that they might cause each other as a result of a forceful suspension of a collaboration program. Causes for forceful suspension must be explicitly set forth in the action plans.

9. CONFLICT RESOLUTIONS:

Any dispute resulting from the interpretation or application of this Agreement shall be settled through direct negotiation and common agreement by the persons delegated to



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such end by each institution. Either party may propose to the other a modification of the Agreement at any time in writing.

10. ACTION PLANS:

Every work program or specific activity that is agreed upon between both shall be defined through an action plan, which shall be under the responsibility of two individuals, appointed respectively by each institution / Industry, and which shall define the following aspects:

- a. Foundations or considerations that warrant the plan for inter-institutional collaboration;
- b. Objective of the action plan for inter-institutional collaboration;
- c. General conditions of the plan;
- d. Academic conditions of the plan;
- e. Administrative and organizational conditions of the plan;
- f. Duration of the protocol;
- g. Intellectual property;
- h. Differences between the parties;
- i. Development of the collaboration project;
- j. Project and/or program to be carried out;
- k. Financial Budget;
- l. Reference to the subject of medical insurance and information.

11. CONFIDENTIALITY:

- a. Each of the parties accepts and declares that every information from the other party is of a confidential nature, is the exclusive property of the latter and has been or will be disclosed to the former solely with the purpose of enabling the full accomplishment of the present Agreement.
- b. For this reason, every piece of information provided by one party to the other before signing this Agreement and / or during its performance must be kept confidential and therefore may not be disclosed to any third parties.

12. AMENDMENTS:

The parties may amend or amplify this Agreement through agreements in writing to that effect. Said amendments or additions will be binding on the signatories as of the date of their signature.



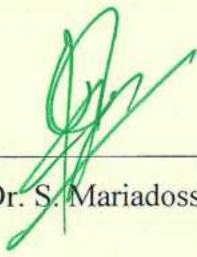
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The parties may not assign, in whole or in part, the performance of the present MoU to any third party, except through prior and express authorization in writing by both of them.

And since both parties are in agreement regarding the content of the present document, and as a token of conformity, we sign it in two counterparts, both of which will be considered originals.

For **St. Xavier's College (Autonomous),**
Palayamkottai.

Zwork Technology
Tiruchirappalli.



Rev. Fr. Dr. S. Mariadoss. S. J.,
Principal


Mr. Rajamurugan Thirumaran
Founder

St. Xavier's College (Autonomous),
Palayamkottai.


Zwork Technology
Tiruchirappalli.

Witness




Name: **Dr. R. Azhagu Raj**
Designation: **Director, IQAC**
St. Xavier's College (Autonomous)
Palayamkottai.

Name: Arockia Rejo
Designation: **CEO**
Zwork Technology
Tiruchirappalli.


Name of In-Charge Academic Collaborations
Designation: **Deputy Principal.**
St. Xavier's College (Autonomous)
Palayamkottai.

Name of In-Charge Academic Collaborations
Designation: **Founder**
Zwork Technology
Tiruchirappalli.

