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A FRANSALIAN INSTITUTE OF HIGHER LEARNING

PG DEPARTMENT OF MATHEMATICS
COLLABORATION WITH
ST.JOSEPH'S COLLEGE OF ARTS & SCIENCE FOR WOMEN, HOSUR

PRESENTS

WORKSHOP on VITAL TOOLS FOR LEARNING MATH

RESOURCE PERSON

ASST. PROF. DR. V THANGA MURUGESHWARI,

DEPARTMENT OF MATHEMATICS, ST.JOSEPH'S COLLEGE OF ARTS & SCIENCE FOR WOMEN

TIMING: 12.00 PM ONWARDS

VENUE: PG005

FOR ANY QUERIES, PLS CONTACT : MSCMATHS@SFSCOLLEGE.IN

E-CERTIFICATE WILL BE PROVIDED

FREE ENTRY TO ALL STUDENTS

Workshop on Vital Tools for Learning Math

Title	Vital Tools for Learning Math
Date Of Events	13/02/2023
Department / Association	Ad-Infinitum in association with research & IP Cell
Venue	PG-005
Number of Participants	28
Target Audience	PG-Mathematics Students

Resource Persons with Qualification	Dr. V. Thangamurugeshwari , B.sc, M.sc, M.Phil, Ph.D (Maths)
Target Audience	NA

Report:

Hon'ble Speaker Dr. V. Thangamurugeshwari is presently working as an Assistant Professor in the Department of Mathematics, St. Joseph's College of Arts and Science for Women, Hosur. She presented seven papers in international conferences and one paper in national conference. She has attended 14 conferences and webinars. She has published 9 papers in UGC care list also.

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She awarded as **Best Young researcher award 2022-23** for her research contribution in Science and Education under the category of "MATHEMATICS EDUCATION" by Novel Research Academy, Puducherry.

She was also a resource person for "State level workshop on ICT Tools and effective presentation Techniques" delivered a session on ICT in Mathematics, department of computer applications of T John College and E-content development cell held on 21st of October 2022.

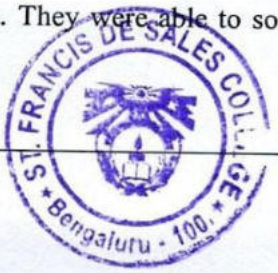
One of the paper Context-free edge replacement Graph P system has recognised as best paper in "International conference on Recent Innovation in Science, Engineering and Technology-ICRISET 2021" Jeppiar Institute of Technology, Chennai. She was also a resource person for two Faculty Development Program of "Role of Environment, Climate Change and Biodiversity on India's Economy" and "Application of Mathematical Tools in Research" in the year 2022 in UGC HRDC DAVV, Indore.

Guest Lecture series under Infinity 2023 was organized by Postgraduate Centre on 13th to 16th of February 2023. Ad-Infinitum Club, Dept. of Mathematics in association with Research & IP Cell organized guest lecture on "Vital Tools for Learning Mathematics" on 13th of February.
Lecture focused on the topics of tools to learn mathematics, are Maple, SPSS, Geo Gebra, Math Mechanics, MATLAB, Scilab, Latex, Maxima and etc,. that motivate the students to learn Mathematics tools.
She explained the outline of Maple, SPSS, Geo Gebra, Math Mechanics, MATLAB, Scilab, Latex, Maxima and Python.

She discussed how to solve matrix problems of more than 3x3 order using Maxima, how to instal maxima, to type and execute maxima she demonstrated and students have done.

She delivered brief information about the Geo Gebra and demonstrated the 3-D problems also. Students have raised the question about parabola problems and she demonstrated the Geo Gebra for Parabola for different values in x as well as y axes

Positive Outcome:
The objective of Infinity-Guest Lecture Series was to gain knowledge about tools for learning Mathematics. Ad-infinitum Club in association with research & IP cell initiated to understand more about vital tools to learn mathematics. Students are able to install maxima as well as Geo Gebra. They were able to solve problems using the tool maxima and Geo Gebra.
Report Prepared by:



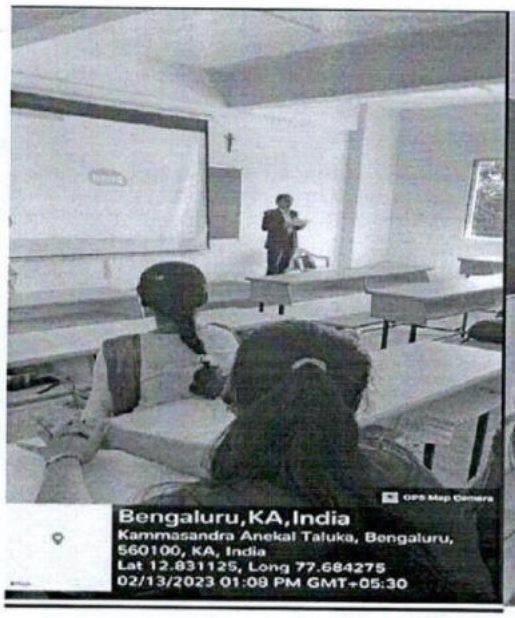
(Event Coordinator)
Roopa J

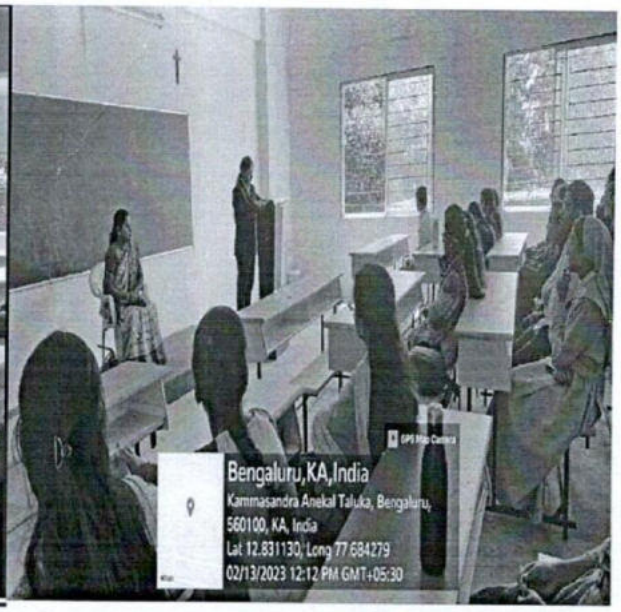
Report Verified by:
(HOD/Criteria Coordinators)

Report Approved by:
(IQAC Coordinator)

Report Prepared by:
Roopa J
(PG-Mathematics)

Geo-tagged photos:





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Attendance:

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Department of Mathematics

PG-Centre

Sl No	UUCMS REG NO	NAME OF STUDENT	SIGNATURE
1	P03M2150010	PRATHIBHA K N	
2	P03M2150011	ARAVINDA K N	
3	P03M2150012	SHARANYASHREE M	
4	P03M2150013	SANGEETHA A	
5	P03M2150014	PRAMEELA A	
6	P03M2150015	HARISH BABU S	
7	P03M2150016	SANJAY KUMAR N	
8	P03M2150017	SHREELEKHA N S	
9	P03M2150018	LALITHA CHAURASIYA	
10	P03M2150019	DELMA D A	
11	P03M2150020	NARENDRA D N	
12	P03M2150021	TEJASHWINI KAMBAR	
13	P03M2150022	SHAILA C V	
14	P03M2150023	SINDHU C	
15	P03M2150024	CHANDANA A K	
16	P03M2150025	MEGHANA M	
17	P03M2150026	SAHANA S	
18	P03M2150027	KARTHIKA K N	

1st semester

1	2201105988	SHALINI	
2	2201096276	TANUJA V	
3	2201114638	LEO ANTO T A	
4	2201100333	SHRISTY UPADHYAY	
5	2201102552	CHAITHRA P B	
6	2201064053	KAVYASHREE S B	
7	2201099722	SHARMILA K	
8	2201103448	DEEPTHI V	
9	2201100410	CHAITHRA R	
10	2201103912	SUSEELA	

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R

ROOPA J 5 days ago
to stjoseph.college10@gmail.co...

Dear Sir/Ma'am

Greeting from the Department of Mathematics-PG, St Francis De Sales College, Electronic city, Bangalore
We are very happy to invite Dr.V.ThangaMurugeshwari, Assistant Professor of Mathematics of your institution to act as a Resource Person for the "Infinity Guest Lecture" on the topic of "Vital tools for Learning Math" on 13.02.2023 in our institution at 09:00am. Kindly accept our invitation and permit Dr.V.ThangaMurugeshwari, for the same. It can be considered as a Faculty Exchange Program under MoU. The Attendance certificate will be provided.
waiting for your favorable reply

Thanking you
Regards,
Roopa J
Assistant professor,
Department of Mathematics-PG
St Francis De Sales College, Bangalore.

Thanga Murugeshwari 5 days ago
to me

Dear Roopa Mam,
Thank you for the invitation.

Regards,
Dr.Thanga Murugeshwari,
Assistant Professor,
Department of Mathematics,
St.Joseph's College of Arts and Science for Women,
Hosur.

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Profile:

Name : Dr. V. ThangaMurugeshwari.

Designation/Present position : Assistant Professor

Official Address for communication: Department of Mathematics

Email I.D. : thangammathe05@gmail.com

Mobile No. 9500402807

Broad field of Research : Formal Languages, Graph Grammars.Qualification: **TNSET-2017 Qualified**

Degree	Subject	Institution	Year
Ph.D.	Mathematics	University of Madras.	2017-2021
M.Phil	Mathematics	St. Xavier's College, Palayamkottai	2011-2012
PG	Mathematics	St. Xavier's College, Palayamkottai	2009-2011
UG	Mathematics	Rose Mary College of Arts and Science,Tirunelveli	2006-2009

Discipline/Area of specialization : Mathematics/Formal Languages, Graph Grammars.

Teaching Experience/Employment history :

Designation	From	To	University/Institution
Assistant Professor	September 2020	Till Date	St.Joseph's College of Arts and Science for Women,Hosur
Assistant Professor	June 2016	October 2016	C.T.T.E College, Perambur, Chennai.
Assistant Professor	June 2013	October 2013	R.B. Gothi Jain College, Red Hills, Chennai
Part-time Lecturer	June 2012	April 2013	Government College of Engineering, Tirunelveli.

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Research Experience:

Designation	From	To	University/Institution
Research Scholar	11.05. 2017	05.01.2021	Queen Mary's College-University of Madras

Editorial Activity/Journal Reviewer : International ICPCIT 2023.

International Conferences/ Seminars/ Webinars

Presentations: International

1. Learning fullerene structure by graph grammars, ICMCE, 3rd and 4th November 2017, VIT University, Chennai.

2. Learning some special graphs using hyperedge replacement, ICDMA, 18th -20th January 2018, Manonmanium Sundarnar University,Tirunelveli

3. Context free graph P system, ICETMST, 20th and 21st December ,2018, JayarajAnnapackiam college, Theni.

4. Generation of paths and cycles using hyperedge replacement and their learning, ICCS, 16th and 17th November, 2018, Loyola College, Chennai.

5. Context free Node Replacement Graph P SystemWith Splicing Rules, ICMCE, 21-22 February 2020 ,VIT Chennai.

6. Context -free Edge replacement Graph P System, International Conference on Recent Innovationin Science, Engineering and Technology - ICRISET-2021", 30.7.202 and 31.07.2021 ,Jeppiaar Institute of Technology.

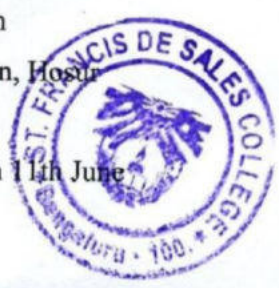
7. Context free Graph P system with Splicing, International Conference "Recent Developments inPure and Applied Mathematics", 19-21 July 2022, St. Xavier's College, Palayamkottai

Presentations: National

1. Grammatical Inference of Paths and cycles using hyperedge replacement, NCMCA, 24th and 25th January 2018, Womens Christian college, Chennai

Confernces/Webinar/Workshop Attended

1. 1.Webinar on "Role of IQAC in Quality Assurance", organized by the Internal Quality Assurance Cell (IQAC), on 31/08/2021 between 01:30 PM and 03:00 PM at St. Joseph's College Of Arts and Science for Women Hosur.
2. Webinar on"NAAC – Pathway to Excellence in Higher Education", organized by the Internal Quality Assurance Cell (IQAC), on 10/07/2021 between 11:00 AM and 12:30 PM at St. Joseph's College Of Arts and Science for Women Hosur.
3. 3.Five Days Professional Development Program on Problem SolvingTechniques in Mathematical Analysis held on 1st June to 5th June, 2021, Patrician College of Arts and Science, Chennai.
4. Webinar on "Teaching, Learning and Evaluation",organized by the Internal Quality Assurance Cell (IQAC), AUXILIUM COLLEGE (AUTONOMOUS) Vellore, in association with St.Joseph's College of Arts and Science for Women, Mookandapalli, Hosur, under Paramarsh Scheme of UGC, on 27/11/2020 between 3:00 PM and 4:00 PM.
5. International Webinar Series," Writing Research project proposal, quality of research articles,training for online teaching and evaluation on 6th and 7th August, St.Joseph's College (Autonomous) , Tiruchirapalli.
6. "Tools for Interactive Content Preparation" of National Webinar on "ICT Tools for Teaching-Learning", Organised by Internal Quality Assurance Cell, 24 July 2020 St. Xavier's College (Autonomous), Palayamkottai, Tamilnadu.
7. National Webinar on"Modelling and Solving Optimization Problems in Operations, Research using Microsoft Excel and Solver" organized by PG and Research Department of Mathematics, St. Xavier's College (Autonomous), Palayamkottai on July 27, 2020.
8. "International Web Conference on Pure and AppliedMathematics"organized by PG and Research Department of Mathematics, St. Xavier's College (Autonomous), Palayamkottai, on June 23 & 24, 2020.
9. Faculty Development Programme organized by Math Metrons, PG &Research Department of Mathematics, St.Joseph's College of Arts & Science for Women, Hosur on17/06/2020 & 18/06/2020.
10. Webinar on Introduction to the Theory of Automata & its Applications held on 11th June



2020, Department of Mathematics, Queen Mary's College (Autonomous).

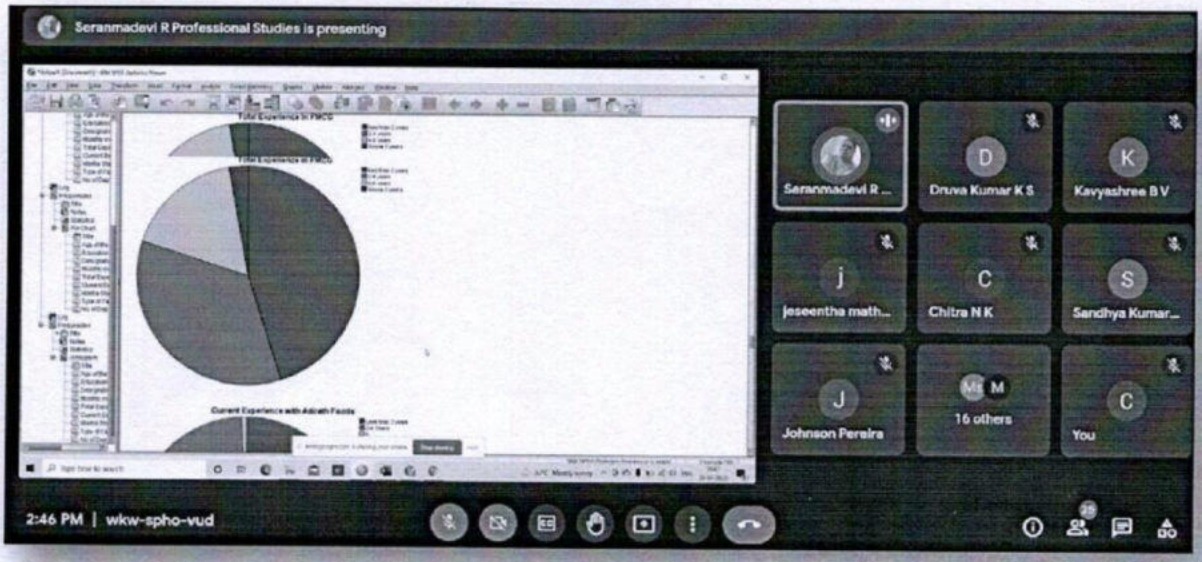
11. Participated two days National Workshop on "Mathematics using Maxima" organized by Math Metrons, Department of Mathematics, St. Joseph's College of Arts & Science for Women, Hosur on 15th & 16th June 2020.
12. Participated two days Faculty development program on "Mathematics using Python" organized by Euclid's Club, Department of Mathematics, St. Joseph's College of Arts & Science for Women, Hosur on 17th & 18th June 2020

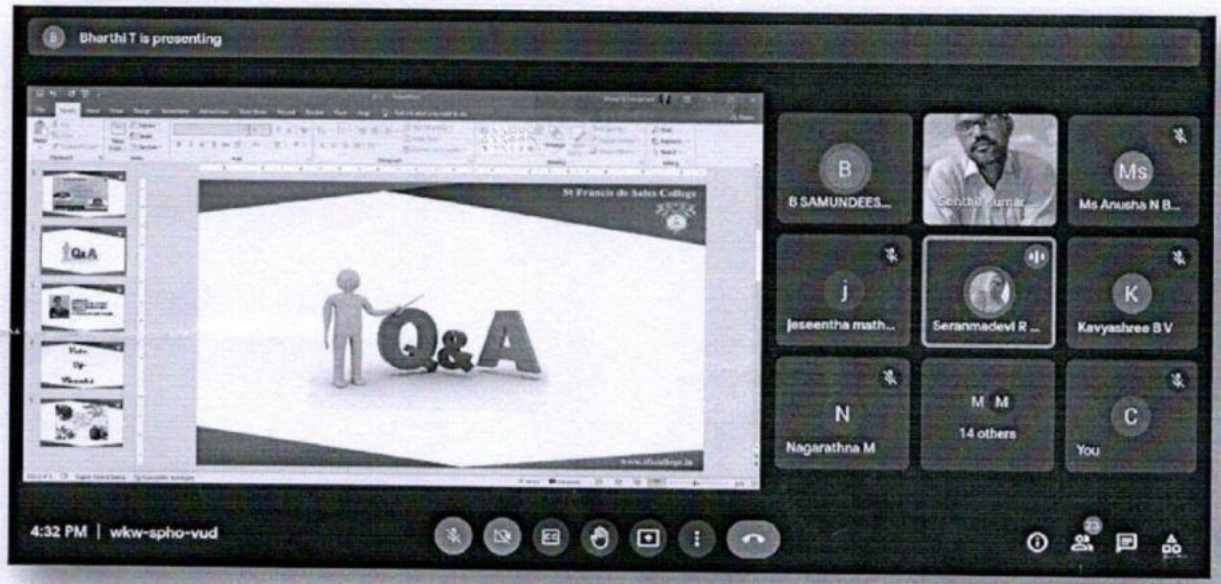
13. Participated one day Faculty Development Program on "TOOLS FOR DIGITAL ERA" organized by the Department of Mathematics, St. Joseph's College of Arts and Science for Women, Hosur on 18th September 2021.
14. Participated in "IP Awareness/Training program under National Intellectual Awareness Mission" organized by Intellectual Property Office, India on 14th November 2022.

List Of Publications:

1. Emerald Princess Sheela J. D. and **Thanga Murugeshwari V.**,Learning Some Special Graphs Using Hyperedge Replacement, Proceedings of International Conference on Discrete Mathematica and its Applications,*International J. Math. Combin. Special Issue 1*, 68-77, 2018.
2. **Thanga Murugeshwari .V** and Emerald Princess Sheela J. D.,Grammatical Inference of Paths and cycles using hyperedge replacement, Proceedings of the National Conference on Mathematics and Computer Applications, Womens Christian College, 2018.
3. **Thanga Murugeshwari .V** and Emerald Princess Sheela J. D., Learning Fullerene Structures by Graph Grammars, *Journal of Computer and Mathematical Sciences,* Vol 10(2), 270-278, February 2019.
4. **Thanga Murugeshwari .V** and Emerald Princess Sheela J. D.,Generation of Paths and cycles using hyperedge replacement and their learning, *International Journal of Computer Science and Engineering,* Vol 7, Issue-3, March 2019.
5. **Thanga Murugeshwari .V** and Emerald Princess Sheela J. D., Context free graph P system, *International Journal Of artificial Intelligence and Soft computing*, Vol 7, No.1, 2019.
6. JebaJesintha ,Emerald Princess Sheela J. D.,**Thanga Murugeshwari .V** and C.D. Devadharshini, Generation of Cm.Pn graphs using graph P system, *Bulletin of pure and applied sciences,*.
7. **Dr. V.Thanga Murugeshwari,** Context -free Edge replacement Graph P System, *Journal of Xi'an Shiyou University, Natural Science Edition,* Vol 18. Issue 05, May 2022
8. **V.Thanga Murugeshwari,** M.Shobanapriya, B.Abhinaya, Certain Iterative methods to solve system of equations by Python Programming, Data Analytics and Artificial Intelligence Vol:3(2), 2023, ISBN:978-81-948459-4-2.
9. M.Shobanapriya, **V.Thanga Murugeshwari, S,** Rezvana Parveen,Python

Programming to solve Linear equations by Gaussian methods





PRINCIPAL
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