

ONLINE FACULTY DEVELOPMENT PROGRAMME

Title : LaTeX

Category : Faculty Development Program

Date : 7th June to 12th June 2021(6 Days)

No. of Resource People : 1

No. of Participants : 550

Organizers : Department of Mathematics & Physics

Resource Person : Dr. A. Sebastian Selvaraj
Guest Lecture,
Department of Mathematics,
Madurai Kamaraj University Constituent college,
Vedasandur,
Dindigul.

Mode : Online

Objective:

This FDP mainly focused on the participants communicating their ideas effectively in the form of technical reports, Journals, papers, etc by using the technical writing tool LaTeX.

Program Schedule:

Schedule for LaTeX		
Day	Topic	Time
Day 1, 7 th June 2021	Introduction to LaTeX, Downloading, and Installation of LaTeX, Basic Math in LaTeX., AMS Packages (Math symbols and math fonts –	10.15 am onwards

	Formatting Texts	
Day 2, 8th June 2021	page Layout and style – Listing – Table preparation – Figure Insertion, Writing Equations, List of contents, and Index	10.00 am onwards
Day 3, 9th June 2021	writing CV using overleaf, Famous LaTeX Packages like Chemfig command, TikZ Package,etc, Preparing an article, Footnotes, and Endnotes, Inserting references, Bibliography, citing references.	
Day 4, 10th June 2021	Plotting 2D and 3D Graphs using Tikz and ps Tricks, Conversion of MATLAB Codes in LaTeX, Online LaTeX Editor: Overleaf.	
Day 5, 11th June 2021	Making presentation using Beamer, Project, Thesis, and Book Writing	
Day 6, 12th June 2021	List of Plug-in software for LaTeX Conversion	

Report:

The Dept of Mathematics and Physics organized a one-week online Faculty Development Program on LaTeX from 7th June to 12th June 2021 starting at 10.00 am every morning. The FDP received a huge response with more than 500 participants from various institutions, especially from other states like Haryana, Maharashtra, Uttara Pradesh, Punjab, Karnataka, Rajasthan, Telangana, Andra Pradesh, Pondichery and from other countries such as Saudi Arabia.

Day 1, Program started with an Inaugural Function with a prayer song, followed by a welcome address by Asst. Prof. K. Sumithra, Dept of Mathematics. In her welcome speech, she highlighted the importance and objectives of organizing this FDP. In the end, the inaugural session was concluded with a vote of thanks given by Asst. Prof. D. Pandi Devi, Dept of Mathematics. Finally Asst. Prof. Dr.D. Dayana Roselin introduced our eminent Resource Person Dr. A. SebastianSelvaraj and handed over the session to him.

On Day 2, Dr. A. Sebastian Selvaraj demonstrated a lecture on the topics: Page Layout & Style, Listing, Table Preparation, Figure Insertion, Equation Writing, and List of Contents & Index.

On Day 3, he continued his lecture by focusing on the Outline of Chemistry-related packages, Tikz, Article Preparation, Reference Management, Citation and Cross Reference, Online LaTeX Editor, and CV using Overleaf.

On Day 4, he delivered a lecture on Theorem like Environment, Plotting 2D & 3D Functions, and Matlab code in LaTeX.

On Day 5, he discussed the topics of Book & Thesis Preparation, and Presentation using Beamer.

At the end of Day 6, he gave a lecture on the List of Plug-in software for LaTeX Conversion

The FDP received numerous positive Feedback from faculty members and research scholars from many universities in India and Saudi Arabia. There were above 500 enthusiastic participants in total, who took part in the 6 – Days Online FDP on LaTeX. Each session was 90 minutes long and included an open question answers session. Zoom meet was the platform used and the session link

and the Program schedule for the day was shared every morning. Also, feedback links were shared at the end of the everyday session. The registered participants were engaged in a special two Whatsapp groups and by Email. The recordings are being uploaded on the YouTube channel of Auxilium College.

Finally, this FDP came to an end with a Valedictory Function, starting with a prayer song, followed by the welcome speech by Asst. Prof. M. Sangeetha, Dept of Physics. Rev. Sr. Dr. P. Selvarani, the Principal gave a Presidential address in which she thanked the Resource Person, Active Participants, and the Organizing committee. In the end, a vote of thanks was given by Asst. Prof. J. Steffi Flora. Feedback was received from the participants and E – An certificate was sent to all participants by mail. The whole Program was well appreciated by every participant.

The expected outcome of the Program:

Participants will:

- Be able to improve the aesthetic quality of their work.
- Be befitted as many academic journals and conferences categorically require dedicated LaTeX Style files for correct typesetting of their submission.
- Be well-equipped to format the contents of books, reports, resumes, letters, thesis, and presentations using beamer..... anything they want to write.

FDP – E-Brochure:

Auxilium College of Arts & Science for Women
Reginathapuram Post, Karambakkudi (TK) Pudukottai Dt. - 622 302

ONE WEEK ONLINE FACULTY DEVELOPMENT PROGRAM ON
LaTeX
ORGANISED BY
DEPARTMENT OF MATHEMATICS AND PHYSICS
WITH BEST WISHES FROM

Date
07/06/2021
to
12/06/2021

Time
10AM - 11.30 AM

Platform
zoom

Resource Person
Dr. A. Subashini Selvaraj
Guest Professor,
Department of Mathematics,
Maharaja Kamaraj University
(Guntur City) Guntur,
Andhra Pradesh

ORGANISING COMMITTEE
CONVENOR:
Rev. Sr. Dr. P. Selvarani, Dept. Principal

COORDINATORS
Dr. D. Regina Rani
Mrs. A. Shanitha
Mrs. M. Jaganpreetha
Ms. J. Shanthi Priya

Instructions:
- No Registration Fee
- Certificate will be provided to those who attend one week FDP and submit the feedback
- Meeting link will be sent to registered mail ID and Whatsapp Group
- Last Date for Registration **07.06.2021**
apple 8: 794648
- **REGISTRATION LINK**
<https://forms.gle/biUVH2m3n4wQLYA>

<https://chat.whatsapp.com/KBRvDN1tJKZ5C7yR0J>

PROGRAM SCHEDULE
INAUGURAL FUNCTION
10AM - 10.15AM

DAY 1
Downloading and Installation of LaTeX, Basic Math in LaTeX
TIME: 10.15AM - 11.30 AM

DAY 2
Writing Equations, Famous LaTeX Packages like Chemfig command, TikZ Package etc.
TIME: 10.00AM - 11.30 AM

DAY 3
Preparing an article, Footnotes and Endnotes, Inserting references, Bibliography, citing references.
TIME: 10.00AM - 11.30 AM

DAY 4
Writing 2D and 3D Graphics using TikZ and PGF, Creating a MATLAB Code in LaTeX, Online LaTeX Editor
TIME: 10.00AM - 11.30AM

DAY 5
Making presentation using Beamer
TIME: 10.00AM - 11.30AM

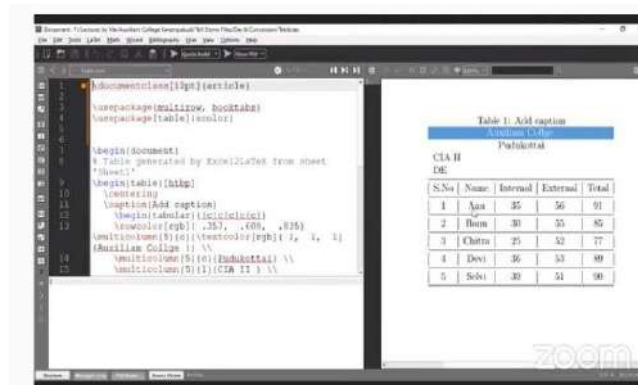
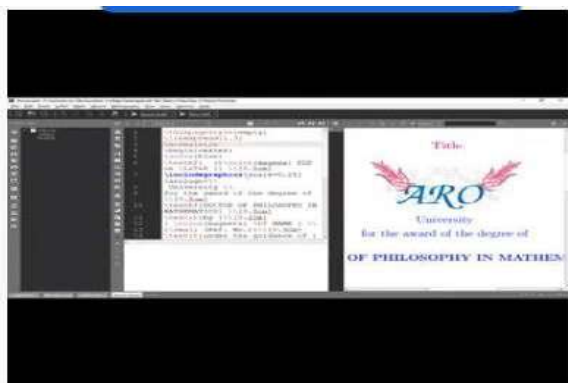
DAY 6
Project, Thesis and Book Writing
TIME: 10.00AM - 11.30AM

VALEDICTORY FUNCTION
11.30AM - 11.45AM

Sample – E – Certificate:



Screenshots of Online FDP Events:



CELEBRATION OF 134TH BIRTH ANNIVERSARY OF SRI SRINIVASA RAMANUJAN

INTER-DEPARTMENT OF MATHEMATICS

Title	: Inter-Departmental Meet
Category	: Mathematics Association
Date	: 20th December 2021(1 Day)
No. of Resource Person	: 1
No. of Participants	: 550
Organizers	: Department of Mathematics
Topic	: Introduction to Topology
Resource Person	: Dr. O. Uma Maheswari Assistant Professor, Department of Mathematics, JJ College of Arts and Science,Pudukkottai.
Venue	: Media Hall

Objective:

This Inter-Departmental Meet mainly focused on the participants developing their creative skills and stimulating their innovative ideas in the field of Mathematics. The following are the competition conducted by the Department of Mathematics.

- 1. Math Quiz**
- 2. Math Poem**
- 3. Math Essay**

4. Math Rangoli

5. Math Poster Making

6. Math Paper Presentation

Report:


The Dept of Mathematics organized an Inter-Departmental Meet on 20th December 2021 at 10.00 am. The program started with an Inaugural Function with a prayer song, followed by a welcome address by Asst. Prof. K. Sumithra, Dept of Mathematics. Rev. Sr. Dr. M. A. Maria Pushpam, the secretary highlighted the importance and objectives of organizing this Inter-Departmental Meet. Rev. Sr. Dr. P. Selvarani, the Principal gave a Presidential address thanking the Resource Person for accepting the invitation and introduced our eminent Resource Person Dr. O. Uma Maheswari, and handed over the session to her.

Dr. O. Uma Maheswari delivered a lecture on the topic Introduction to Topology by giving real-life examples. The Sessions were more informative and innovative.

As a token of love, 16 winners from various competitions received their prizes and all the participants received their certificates.

In the end, the session was concluded with a vote of thanks given by Asst. Prof. D. Pandi Devi, Dept of Mathematics.

Brochure :

 **AUXILIUM COLLEGE OF
ARTS & SCIENCE FOR WOMEN**
Regunathapuram, Pudukkottai (DT).

DEPARTMENT OF MATHEMATICS
Cordially invites you to celebrate
Inter Departmental Meet
on
134th Birth Anniversary of Sri Srinivasa Ramanujan
to be held on Monday, 20th Dec 2021, Organised
by the Mathematics Association

Dr. O. Uma Maheswari, M.Sc., M.Phil., P.G.D.C.A., Ph.D.,
Asst. Prof. J.J. College of Arts & Science (Autonomous)
Sivapuram, Pudukkottai.

has kindly consented to be the chief guest and
rekindle ourselves by presenting on
"Introduction to Topology"
in the presence of
Rev Dr. Sr. M.A. Mariapushpam, FMA.,
Secretary, Auxilium College
and
Rev Dr. Sr. P. Selvarani, FMA.,
Principal, Auxilium College of Arts & Science
to preside over the prize distribution and deliver the key note address

EVENTS

- Paper Presentation
- Poster Making
- Math Rangil
- Math Quiz
- Math Poem
- Math Essay

AGENDA

- Prayer Song
- Welcome Address
- Felicitation
- Keynote Address
- Prize Distribution
- Vote of Thanks

Venue
Media Hall
Organized by
Management / Principal / Staff Members / Students

Banner of Inter-Departmental Meet

AUXILIUM COLLEGE OF ARTS AND SCIENCE FOR WOMEN
REGUNATHAPURAM, PUDUKKOTTAI

Inter Departmental Meet On
134 th Birth Anniversary Of Sri Srinivasa Ramanujan.

**Monday, 20th
December 2021**



**THE AMAZING
HARDY-RAMANUJAN NUMBER**
 $1729 = 1^3 + 12^3$
 $1729 = 9^3 + 10^3$
 $1+7+2+9 = 19 \times 91 = 1729$

Organised by
DEPARTMENT OF MATHEMATICS
STAFF MEMBERS and STUDENTS

Certificate of Inter-Departmental Meet



Youtube Link of Inter-Departmental

Meet <https://youtu.be/MP-OcR4kWnQ>

Screenshots of Inter-Departmental Meet





THE WORLD KINDNESS DAY

With joy and enthusiasm, the Association meeting of the department of Mathematics for the Academic year 2021- 2022 was held on 13th November 2021 at 2.00 p.m. That day we celebrated world kindness day. 52 PG and 159 UG students participated. The second-year UG students enacted, how to practice kindness in daily life, in our families, and society. Sr. Pushpa, the Head of the Department of Mathematics in her address expressed and explained the virtue of kindness to all the students. She also mentioned “One kind word can change someone’s entire day. She appreciated the II-year students of our department of Mathematics for inspiring each of us with their small enactment. We ended the meeting with lots of dreams and hopes. It was a fruitful day indeed for the staff and students. Then we concluded the meeting with a short prayer.



WORLD TOLERANCE DAY

On 16th November 2021, the Department of Mathematics organized a world tolerance day. Two Hundred and eleven students participated. Our first-year students brought out beautifully through a skit how people practice tolerance at home, college, school, workplaces, and in their families. In the end, the speech was given by Sr. Pushpa, the head of the Department of Mathematics who emphasized the importance of tolerance. All the students and staff members joyfully participated in this event. In the end, all students and staff vowed to practice tolerance in their daily life.



INTERNATIONAL STUDENTS DAY CELEBRATION

On 17th November 2021, the Department of Mathematics celebrated International Students day. Around 1030 students took part. During the assembly, two of our Second-year Mathematics students shared their views on the importance of celebrating this meaningful occasion. Sr. Pushpa, in her keynote, addressed all the students and explained the basic characteristics of good students. She concluded by saying, “Always believe in yourself and never lose hope”. Then we concluded the meeting with a short prayer.



WORLD TELEVISION DAY

On 21st November 2021, the department of Mathematics celebrated International women's day. All the UG and PG together, around 210 students participated in this world Television day. Our students creatively enacted the use of television for all the students. "A day without television would be a disaster. Good journalism, Good television, can make our world a better place". Television has been one of the most significant sources of entertainment. It has also been an important tool for educating and informing people, about equality. Finally, television is the best source of entertainment and general knowledge and we were happy to celebrate it. They concluded by saying that, television should always be used for a good purpose.



CONSTITUTION DAY OF INDIA

26th of November 2021 was celebrated as Constitution Day in the Department of Mathematics. 211 students gathered in the media Hall to celebrate this event. The program was animated by II M.Sc. Students. They highlighted the constitution of India through drama. The main purpose of this event was to make students aware of their fundamental rights in the Indian constitution. That is "Right to Equality, Right to freedom, Right against exploitation, Right to freedom of Religion, Cultural and Educational Right. Finally, the program was

ended with Inspirational Quotes by the Father of the Indian Constitution Dr. BR Ambedkar.

“Be Educated, Be Organized, and Be Agitated”

“I measure the progress of a community by the degree of progress which women have achieved.”

All the students and staff members joyfully participated in this world Day of Constitution. At the end, all the students and Staff promised to practice the rules of the constitution in their daily life.



NATIONAL SCIENCE DAY

DATE – 28.02.2022

National science day was celebrated on 28th February 2022 at our college. The objectives of this program were that the entire event provides a platform for the students to prove their talents, bring out their creativity, face challenges and overcome their weaknesses. Our staff members shared their knowledge with the students. Students participated with enthusiasm in Quiz, PowerPoint presentation, models, and poster making. The science day was successful and we believed that our objectives were achieved.



INDUSTRIAL VISIT TO MADURAI

DATE: 24.05.2022

PLACE: GANDHI MUSEUM, THIRUMALAI NAYAKKAR MAHAL

DEPARTMENT OF MATHEMATICS: UG & PG EDUCATIONAL TOUR TO MADURAI:

The department of Mathematics had arranged an educational tour for all the final years UG and PG students. There were 113 Students and 7 faculties who left for Madurai by two tourist buses at 4.30 am on 24.05.2022. They reached Madurai at 6.30 am, refreshed, and had breakfast. They also visited the Meenakshi Amman temple. Also, they Visited Thirumalai Nayakkar Mahal and Gandhi Museum. This visit added fire to the knowledge and was thought-provoking. Thereafter students and staff went shopping and enjoyed the shopping place and had supper there itself. They started their journey back happily at 7.30 pm and reached the college campus at 11.30 pm on 24.05.2022.



Title of the Event : **LAUDATO SI' WEEK 2022**
Date : 26 May 2022
No of Participants : 1024
Purpose : Strengthen the Community and Support the Poor People.
Organizers : Department of Mathematics
Report:

Department of Mathematics decided to celebrate Laudato Si Week 2022 on 24th May to create an awareness about how to “Strengthen the Community and Support the Poor People”. On that day, around 1024 of our college students participated. More than ten students explained the theme of the day.

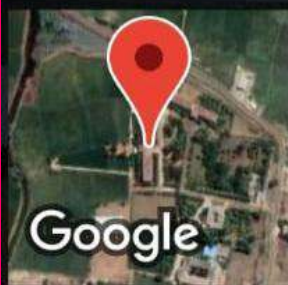
^ In a growing media world, society is deteriorating. Mobile is the whole root cause of community disorder. This Humanity disappears among human beings and selfishness prevails. What can we do to change this situation and make humanity flourish as a community resource? If a country is to be prosperous then first society must be prosperous. Education is a powerful weapon that can strengthen and create such a prosperous society. An individual who has been formally educated will receive social change.

Not all of us can do great things but we can do small things with great love. Students from the Department of Mathematics represented some of the great people in the society like Mother Teresa, Periyar, Abdul kalam, Kamarajar, and Muthulakshmi Reddy, and quoted their service to the poor and needy. Also, they highlighted the charity day and ASIR fund which were very useful for those who are below the poverty line to get an Education. They also shared the overall income of Charity day and the ASIR fund which is the glory of the institution.

Finally, the students from the Department of Mathematics encourage all the students from various departments to join, continue this ASIR revolution and give 1 rupee to help the students in our college as much as we can and ensure that they pay their college fees and complete their Education successfully.



H46F+MVX, Regunathapuram, Tamil Nadu 622302, India



Type	Degree	DMS
Latitude	10.5612344	10°33'40" N
Longitude	79.1241628	79°7'27" E

26 May 2022, 09:05 AM