



DEPARTMENT OF MATHEMATICS

Collaborative Activities

Academic Year – JULY 2024 to JAN 2026

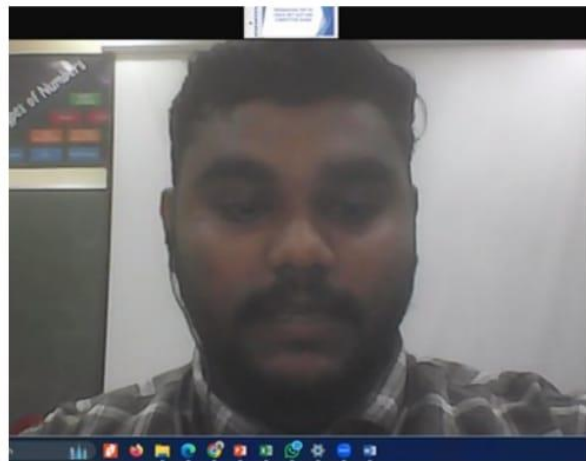
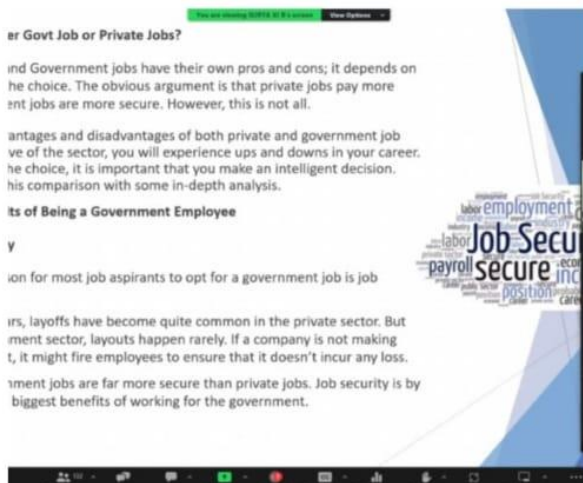
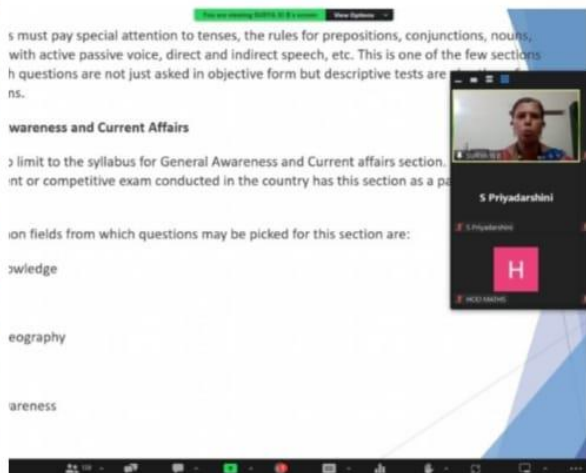
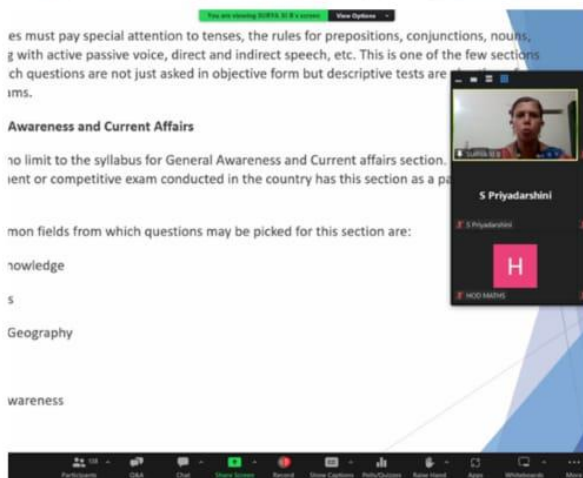
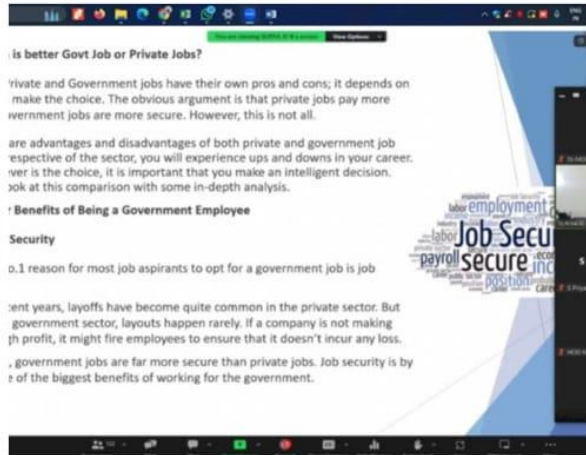
Online Seminar on Preparation Tips to Crack NET SLET and Competitive Exams (28-08-2024)

The Department of Mathematics, Dr. MGR Educational and Research Institute, organized the Online seminar by the Department of Mathematics titled "Preparation Tips to crack NET/SLET and Competitive Exams " held on 28/8/2024. The objective of this seminar is to explore the concept to crack UPSC ,TNPSC exam and to encourage the faculties, students from Bhaktavatsalam Memorial College for Women, Chennai and Gambella University, Ethiopia as a part of our **MOU activity**.

The Guest Speaker was Dr.R.Kokila, Assistant Professor, Department of Mathematics, Sindhi College, Chennai. In her Talk, she explained about solving problems on Logical reasoning, Quantitative comparison, Series formation, puzzles etc., in detailed manner. And also she explained how to crack UPSC ,TNPSC exams. The session was very informative and gives insights to the participants to understand, how to face the competitive exams.

Over all 150 participants registered for the events from various institutions. Out of them 3 participants registered from Gambella University, Ethiopia, as a part of our **MOU activity**.

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The first equation describes how the susceptible population changes over the time Δt
 $S(t + \Delta t) = S(t) - \beta \lambda S(t)I(t)$ (1)
 The second equation describe how the infected population changes over the time Δt
 $I(t + \Delta t) = I(t) + \beta \lambda S(t)I(t) - \gamma \Delta t I(t)$ (2)
 The third equation describe how the recovered population changes over the time Δt
 $R(t + \Delta t) = R(t) + \gamma \Delta t I(t)$ (3)

Adaptation of SIR models with differential equations

4. Rumor Propagation
 Rumor, as a part of everyone is daily life, has often been defined as a type of social phenomenon with which some unconfirmed elaboration or annotation of the public interested events or issues spread on a large scale within a relatively short period of time through various channels, whether it is true or false.
 The spread of rumors can shape the public opinion and impact financial markets and change population behaviour.

THANKS

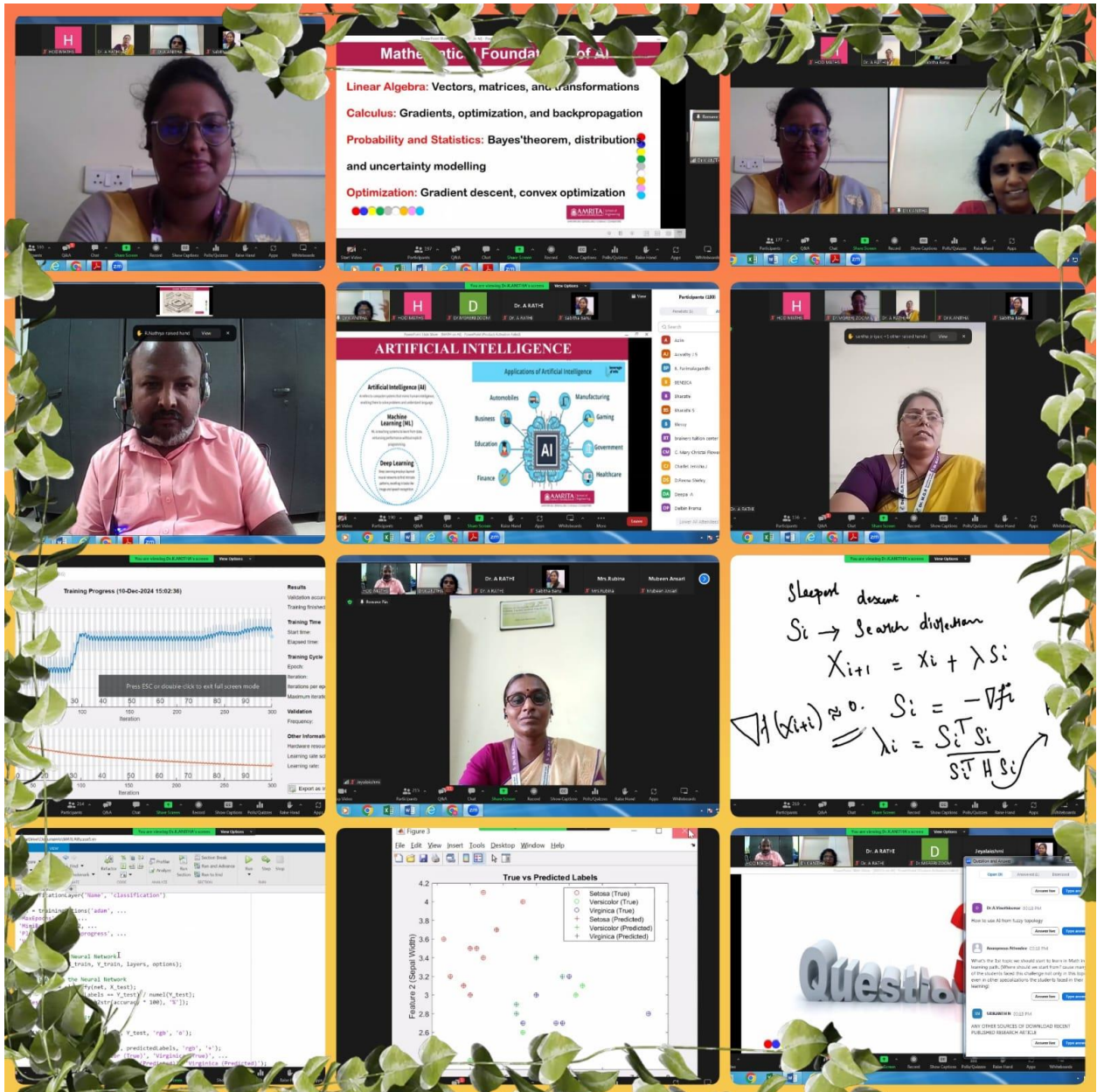
The differential equations are :
 $\frac{dS(t)}{dt} = \mu - \beta S(t)I(t) - (\mu + \alpha)S(t)$
 $\frac{dI(t)}{dt} = \beta S(t)I(t) - (1 - q)\beta I(t)I(t) - \beta R(t)I(t)$
 $\frac{dR(t)}{dt} = \beta I(t)S(t) - (1 - q)\beta I(t)I(t) + \beta R(t)I(t)$
 $\frac{dR(t)}{dt} = kI(t) - \mu R(t)$

WHAT IS MATHEMATICAL MODELLING

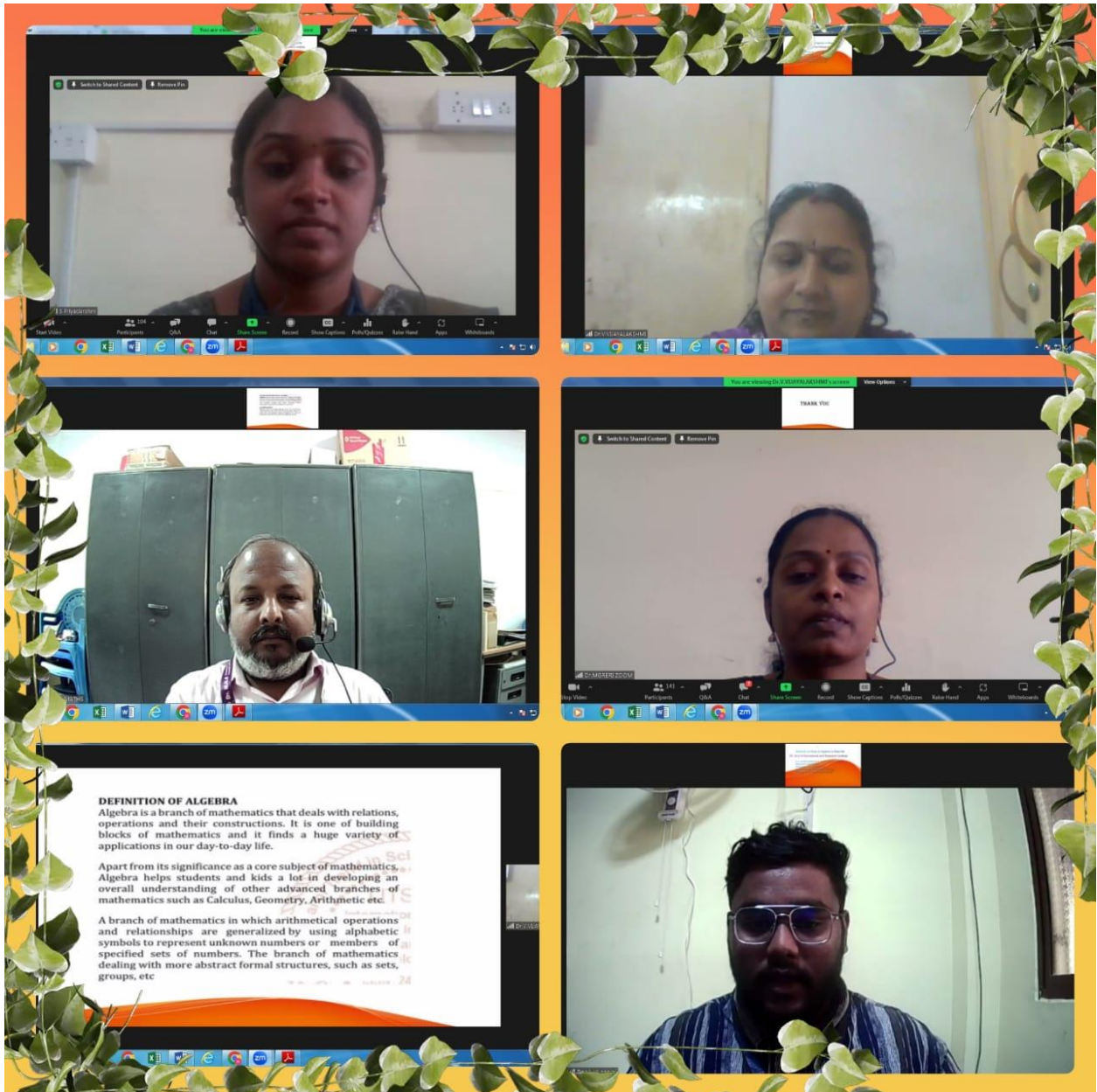
- ❖ A dictionary meaning of a "model" is to represent something. Thus, modelling is process or a way of representation.
- ❖ Representations of real world problems in mathematical form with some assumptions
- ❖ Modelling is a process that uses math to represent, analyze, make predictions, or otherwise provide insight into real-world phenomena

The SIR model
 $S(t) \rightarrow I(t) \rightarrow R(t)$
 where
 $S(t)$: Susceptible
 $I(t)$: Infected
 $R(t)$: Recovery (or Removed)
 $N = S(t) + I(t) + R(t)$
 N is Total population

Online Guest lecture - MATH ON AI(10 -12-2024)



Role of Algebra in Real Life Online Seminar(29 -01-2025)

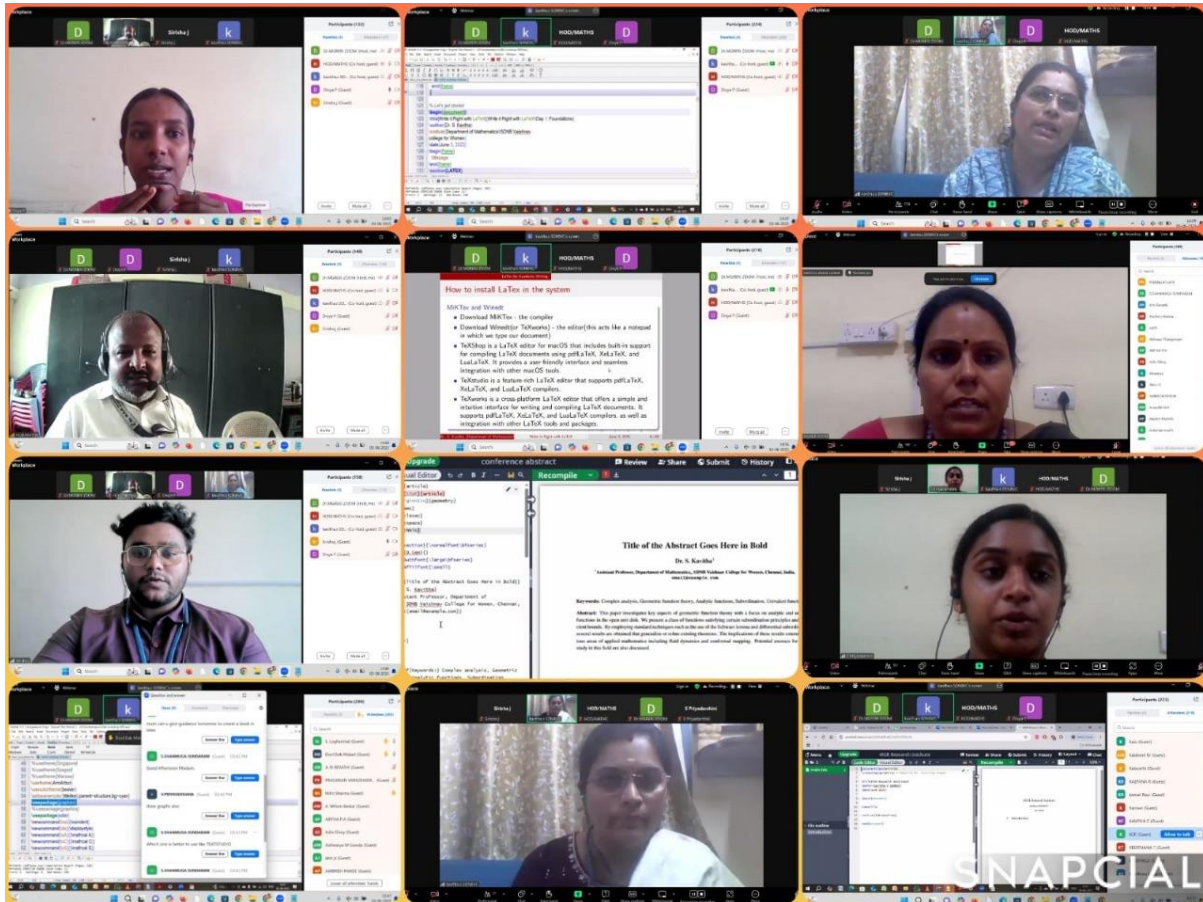


MATH behind GPS technology- Online Seminar(18 -03-2025)





Online workshop on LaTeX for Academic Writing (03 & 04-06-2025)



The Department of Mathematics, Dr. MGR Educational and Research Institute, organized two day's workshop on "LaTeX for Academic Writing" on 3rd and 4th June 2025 in Virtual mode. The objective of this Workshop is, how to prepare a Research article or Book chapter by using LaTeX in an effective manner and to encourage the faculties, students from Bhaktavatsalam Memorial College for Women, Chennai and Gambella University, Ethiopia as a part of our **MOU activity**.

Over all 582 participants registered for the events from various institutions. Out of them nine participants registered from Bhaktavatsalam Memorial College and 15 from Gambella University, Ethiopia.

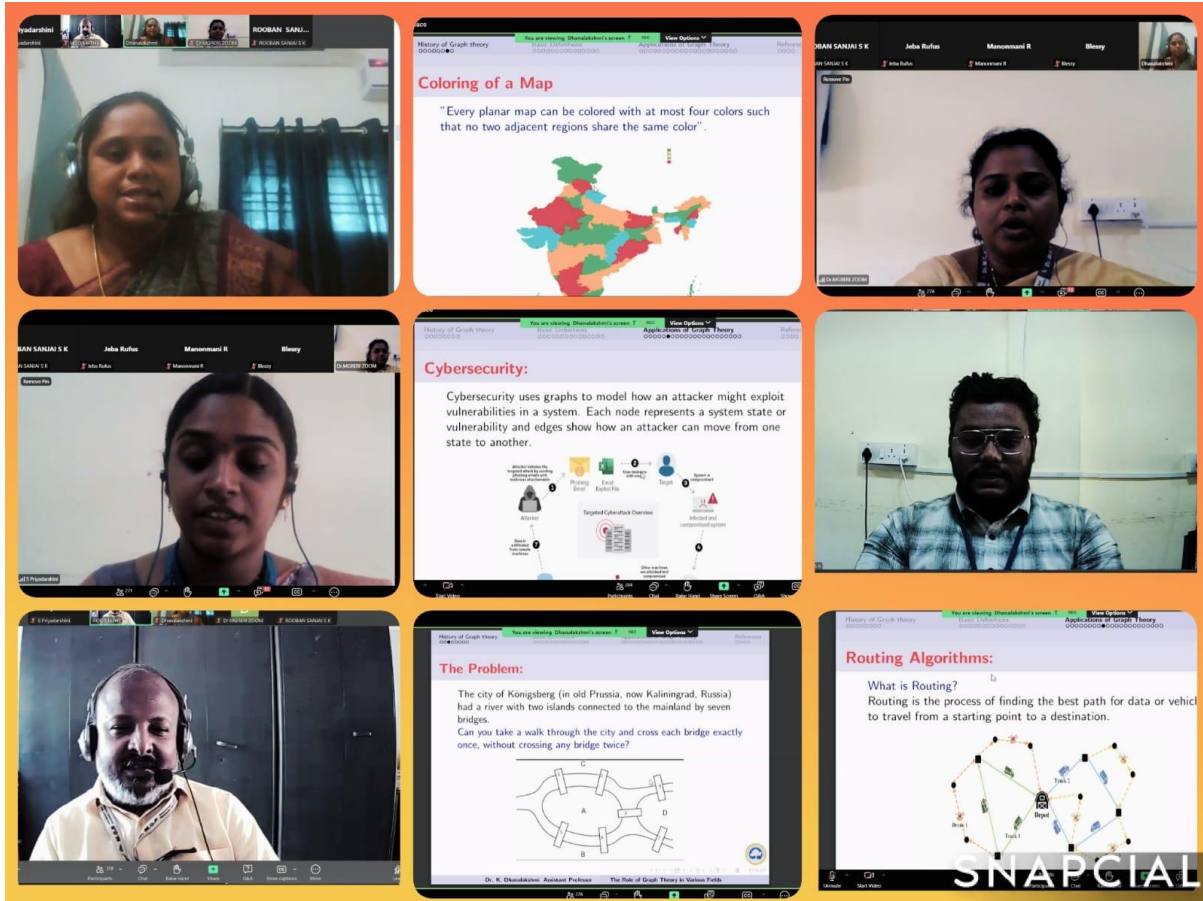
The Resource person of the event was Dr. S. Kavitha, Assistant Professor, Department of Mathematics, SDNB Vaishnav College for Women, Chennai In her talk, she gave a brief introduction to LaTeX and its advantages over traditional word processors, Installation and overview of TeX distributions (TeX Live/MiKTeX) and editors (Overleaf, TeXstudio). She also explained on Basic



document structure: sections, subsections, paragraphs, lists, Text formatting, tables, formulae's and inclusion of images. Participants were given practical exercises to reinforce their understanding of the basic commands and syntax.

DAY 1 Attendance								
2025/06/	rithikapar	Rithika.P	Student	Mathema	Baktavats	Chennai	Tamil Na	9080447413
2025/06/	duolmalu	Duol Dak	Research	Physics	College o	Addis Ababa	Ethiopia	2.51909E+11
DAY 2 Attendance								
2025/06/	rithikapar	Rithika.P	Student	Mathema	Baktavats	Chennai	India	9080447417
2025/06/	varshavar	Varsha.G	Student	Mathema	Bhaktava	Chennai	India	9344897945
2025/06/	duolmalu	Duol Dak	Research	Physics	College o	Addis Ababa	Ethiopia	2.51909E+11
2025/06/	gatmaku	Gatwech	Faculty	Statistics	Natural a	Gambella	Ethiopia	2.51941E+11

Online Seminar on The Role of Graph Theory in Various Fields (18-06-2025)



The Department of Mathematics, Dr. MGR Educational and Research Institute, organized online seminar "The Role of Graph Theory in Various fields ", on 18th June 2025. The Chief Guest of the event was Dr. K.Dhanalakshmi, Assistant Professor, Department of Mathematics, SRM Institute of Science and Technology, Chennai. The objective of this seminar is to explore the concept of Graph Theory in real time application, and to encourage the faculties, students from Bhaktavatsalam Memorial College for Women, Chennai and Gambella University, Ethiopia as a part of our **MOU activity**.

Over all 712 participants registered for the events from various institutions. Out of them 15 participants registered from Bhaktavatsalam Memorial College and 2 from Gambella University, Ethiopia.

In her talk, Dr. K. Dhanalakshmi explained the basic concepts in Graph Theory and various types of Graphs along with its applications. She further explained, the role of Graph Theory in Social Network Analysis, Machine learning, Cybersecurity, Chemical drug discovery & Design etc



6-18-2025 15:35:00	varshavarshug21@gm: Varaha. G	Student	Mathematics	Bhaktavatchalam Memorial Colleg Chennai	India	9344897945
6-18-2025 15:40:28	varshinilingasiva@gma Varshini. L	Student	Mathematics	Bhaktavatsalam Memorial College Chennai	India	7200038124
6-18-2025 15:37:24	mahejeron1978@gmai S MAHESWARI	Faculty	Mathematics	Bhaktavatsalam memorial college Chennai	India	7305870489
6-18-2025 15:42:04	bharathimahe89@gma S.BHARATHI	Faculty	MATHEMATICS	Bhaktavatsalam Memorial College Chennai	India	9566062645
6-18-2025 15:45:49	vinodhini05vino@gmail Vinodhini. A	Student	Mathematics	Bhaktavatsalam memorial college Chennai	India	8939374665
6-18-2025 15:35:10	sangeethaedk12@gm: Sangeetha. c	Student	MSc. Mathematics	Bhaktavatsalam Memorial colleg Chennai	India	6238277401
6-18-2025 15:50:00	rafi.maths@bharathuniDr. U. Mohammed Rafi	Faculty	Mathematics	Bharath Institute of Higher Educat Chennai	India	7402238880
6-18-2025 15:41:00	sranjitha@bmscw.edu Ranjitha S	Faculty	Mathematics	BMS College for Women Bengaluru	India	8884790287
6-18-2025 15:34:32	rithikapandiyani145@g P.Rithika	Student	Mathematics	Baktavatsalam memorial college Chennai	Tamil Nadu	9080447413

Guest Lecture on Big Data Analysis (15-07-2025)





The Department of Mathematics, Dr.MGR Educational and Research Institute, organized Guest Lecture titled, "Big Data Analysis", on 15th July 2025 in University Seminar Hall, Phase I Campus. The Chief Guest of the Event, Dr.Mohamed Mustaq Ahmed, Assistant Professor, Department of Artificial Intelligence, The New College, Chennai.

The talk given by Dr.Mohamed Mustaq Ahmed gave a deep insight into the concepts of Big Data like Hadoop distributed file system, Clustering in Data Science and so on. He also focused on the Descriptive, Diagnostic, Predictive and Prescriptive analytics together with the k clustering concepts. The session was very active and interesting and it was really useful to all the participants in particular the students from the Department of Information Technology, Computer Science and also students from the Bhaktavatsalam Memorial College for Women, Chennai.



Form No. - F1/Event/2014 Rev. 07.01.2018

Dr. M.G.R. EDUCATIONAL AND RESEARCH INSTITUTE DEEMED TO BE UNIVERSITY

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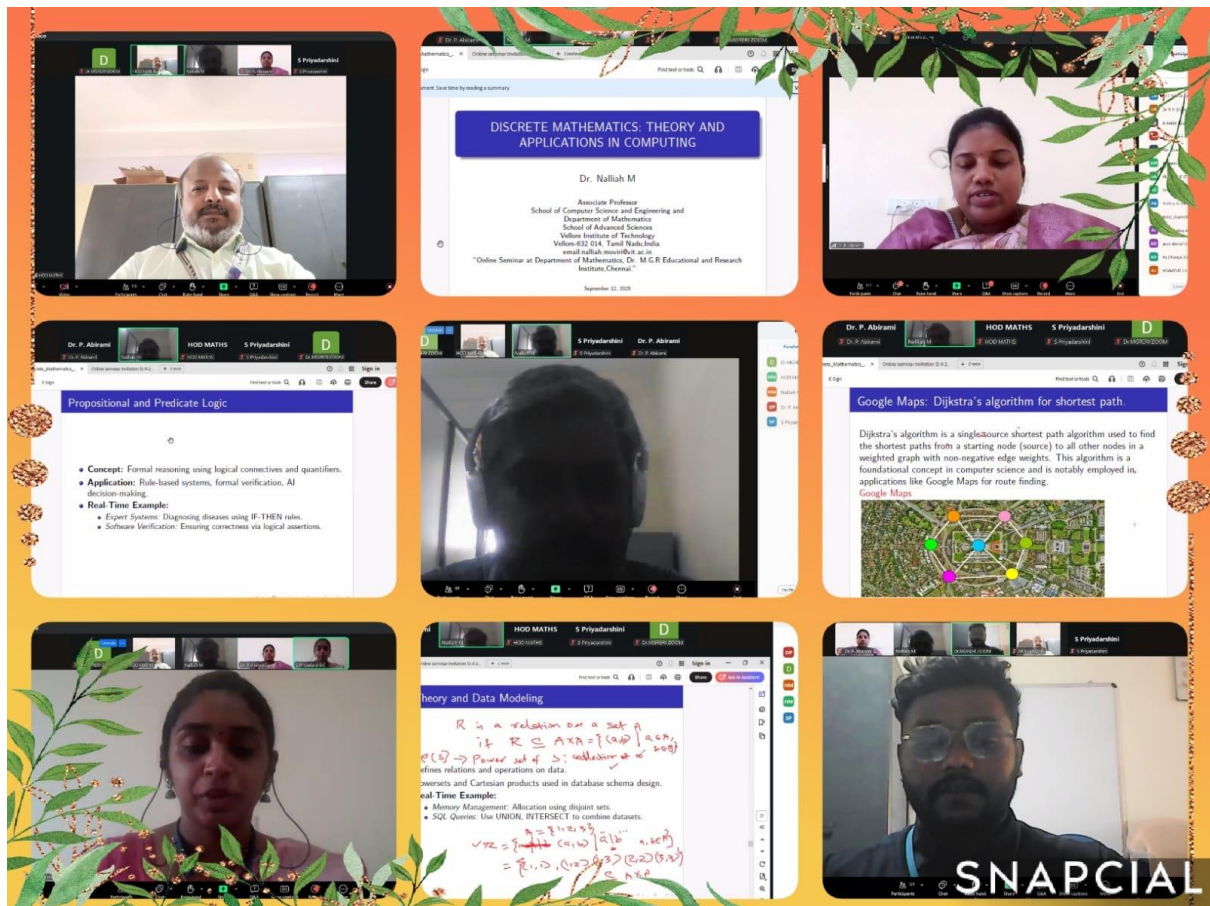
Intercollege Event - Participants Attendance Form - F14

Event Name		Faculty/ Dept.		
Guest Lecture on Big data Analysis Seminar Hall		15/7/25 10am B.I.C. Chennai		
SN	Name	Institution Name	Signature	
			FN	AN
1.	P. THIRISHA	BHAKTAVATSALAM MEMORIAL COLLEGE	✓	
2.	VARSHINI L	BHAKTAVATSALAM MEMORIAL COLLEGE	✓	
3.	B. KAVI PRIYA	BHAKTAVATSALAM MEMORIAL COLLEGE	✓	
4.	YALWARTHI SAILASYA	BHAKTAVATSALAM MEMORIAL COLLEGE	✓	
5.	P. RITHIKA	BHAKTAVATSALAM MEMORIAL COLLEGE	✓	
6.	GI. VARSHA	BHAKTAVATSALAM MEMORIAL COLLEGE	✓	
7.	A. VINODHINI	BHAKTAVATSALAM MEMORIAL COLLEGE	✓	
8.	B. KAVI PRIYA	BHAKTAVATSALAM MEMORIAL COLLEGE	✓	
9.	I. SAHANA PRIYA	BHAKTAVATSALAM MEMORIAL COLLEGE	✓	
10.	R. DIVYA SHREE	BHAKTAVATSALAM MEMORIAL COLLEGE	✓	
11.	Y. SAILAS			
12.	D. Padma - Faculty - Bhaktavatsalam Memorial college for women		✓	
Event Co-ordinator		Event Manager / Association Convener	Faculty/Dept. Head	



Online Seminar on “Discrete Mathematics: Theory and Applications in Computing” (12-09-2025)

Timestamp	Email Address	Column 2	Name of the Participant	Department	Designation	Name of the College/ Institution	Place
8-25-2025 13:19:12	viju.shanbhag94@gmail.com		Vijayalakshmi U Shanbhag	Mathematics	Faculty	BMS College For women	Bangalore
8-25-2025 13:24:21	vaishalink1998@gmail.com		VAISHALI N K	Mathematics	Faculty	BMS COLLEGE FOR WOMEN	Bengaluru
8-25-2025 13:40:39	ashugizaw98@gmail.com		Ashenafi Gizaw	Mathematics	Research Scholar	Gambella University	Ethiopia
8-25-2025 17:31:57	ayeleyaya@gmu.edu.et		Ayele Yaya Yaliso	Mathematics	Research Scholar	Gambella University	Ethiopia
8-26-2025 18:07:47	sanghavimathematics@gmail.com		Ms.K.R.SANGHAVI	Mathematics	Faculty	Bhaktavatsalam Memorial College f	Chennai
8-26-2025 18:51:01	bharathimahe89@gmail.com		S.BHARATHI	Mathematics	Faculty	BHAKTAVATSALAM MEMORIAL C	Chennai
8-26-2025 19:31:31	jothiprabha1983@gmail.com		Dr. E. JOTHI	Mathematics	Faculty	Bhaktavatsalam Memorial College f	Chennai
8-26-2025 20:21:35	dpadma2407@gmail.com		Padma D	Mathematics	Faculty	BHAKTAVATSALAM MEMORIAL C	Chennai
8-26-2025 22:26:43	thirisha.p2810@gmail.com		Thirisha. P	Mathematics	Student	Bhaktavatsalam Memorial College f	Chennai
8-27-2025 14:28:52	varshinilingasiva@gmail.com		Varshini. L	Mathematics	Student	BMC	Chennai
8-28-2025 11:31:11	vinodhini05vino@gmail.com		A.vinodhini	Mathematics	Student	Bhaktavatsalam memorial college f	Chennai
8-28-2025 12:42:31	varshavarshug21@gmail.com		Varsha.G	Mathematics	Student	Bhaktavatchalam Memorial College	Chennai
8-28-2025 13:14:31	rithikapandiyani14@gmail.com		P.Rithika	Mathematics	Student	Bhaktavatsalam memorial college f	Chennai
8-28-2025 20:26:47	thepwilliams9@gmail.com		Thep Williams	Computer science	Student	Gambella University	Gambella
8-31-2025 14:17:49	atk1259@gmail.com		AregawiTsegay Kahsay	Mathematics	Faculty	Gambella University	Ethiopia



The Department of Mathematics, Dr.MGR Educational and Research Institute, organized Online Seminar titled, “Discrete Mathematics: Theory and Applications in computing” on 12th September 2025. The event was conducted at the Online Mode. The Session commenced at 02.00 p.m with Dr. T.Johnson, Head, Dept. of Mathematics, welcomed the gathering. The Resource person of the program, Dr.M. Nalliah, Associate Professor,



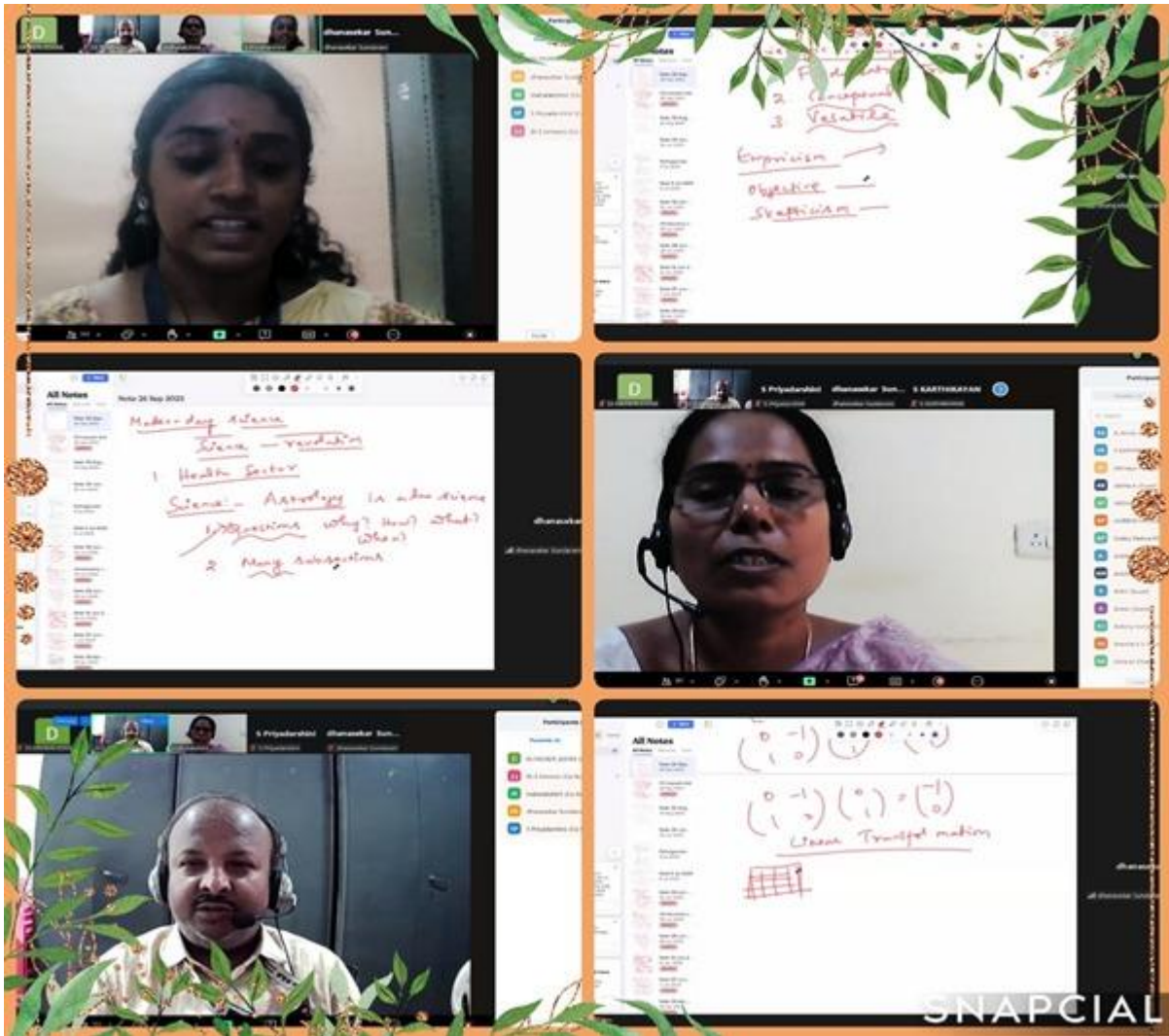
Department of Mathematics, School of Advanced sciences, Vellore Institute of Technology, Vellore, had been introduced by the Research scholar, S. K. Rooban Sanjai, Dept. of Mathematics. In the session, Dr. M. Nalliah explained, how to use predicate logic concepts in the Inference theory. He also explained about the algorithm of propositional set theory, Data modelling and Graph Theory. The session was informative and beneficial to all the participants and make them gaining knowledge.

The session was highly engaging and informative, and it proved to be very beneficial for all the participants, especially the students and faculties from the Bhaktavatsalam Memorial College for Women, Chennai.

Timestamp	Email Address	Name of the Participant	Designation	Department	Name of the College/ Institution	City	Country	Mobile number
9-12-2025 14:58:23	varshavarshug21@gm	Varsha.G	Student	Mathematics	Bhaktavatchalam Memorial College Chennai		Tamilnadu	9344897945
9-12-2025 15:00:26	vinodhini05vino@gmail	A.vinodhini	Student	Mathematics	Bhaktavatsalam memorial college fi Chennai		India	8939374665

Online Seminar on “Impact of Mathematics on Modern Science” (26-09-2025)

Name of the Participant	Department	Designation	Name of the College/ Institution	Place	Mobile number
Gatwech Makuach Gatkuoth	Statistics	Faculty	Gambella University	Gambella, Ethiopia	+251941207756
PADMA D	Mathematics	Faculty	BHAKTAVATSALAM MEMORIAL COLLEGE FOR WOMEN	Chennai	9080369224
Ms.K.R.SANGHAVI	Mathematics	Faculty	Bhaktavatsalam Memorial College for Women	Chennai	9840439559
Dr. E. JOTHI	Mathematics	Faculty	Bhaktavatsalam Memorial College for women	Chennai	9,67,71,37,770
S.BHARATHI	Mathematics	Faculty	Bhaktavatsal am Memorial College for women	Chennai	9566062645
Varsha.G	Mathematics	Student	Bhaktavatchalam Memorial College for women	Chennai	9344897945
Thirisha. P	Mathematics	Student	Bhaktavatsalam Memorial College for Women	Chennai	7358752096
Sangeetha C	Mathematics	Student	Bhaktavatsalam Memorial College , Korattur	Chennai	6238277401
Vinodhini.A	Mathematics	Student	Bhaktavatsalam memorial college for women	Chennai	8939374665



The Department of Mathematics, Dr. M.G.R. Educational and Research Institute organized Online seminar on “Impact of Mathematics on Modern Science” on 26th September 2025. The event was conducted at the Online Mode. The session commenced at 2.00 p.m. with Dr. T. Johnson, HOD, Dept. of Mathematics, welcomed the gathering. The Resource person of the Event was Dr. S. Dhanasekar, Associate Professor, Department of Mathematics, School of Advanced sciences, VIT, Chennai. In the session, Dr. S. Dhanasekar explained, the impact of Mathematics in the field of Image Processing, Health sector, Histogram equalization, Sorting algorithm, Robotics, Cryptography and Quantum computing. The session was informative and beneficial to all the participants and make them to gain knowledge about the topic.



The session was highly engaging and informative, and it proved to be very beneficial for all the participants, especially the students and faculties from the Bhaktavatsalam Memorial College for Women, Chennai.

Name of the Participant	Designation	Name of the college/ Institution	Place	Mobile Number
Varsha.G	Student	Bhaktavatsalam Memorial College for Women	Chennai	9344897945
Dhanalakshmi K	Student	Bhaktavatsalam Memorial College for Women	Korattur	9361048343
Thirisha P	Student	Bhaktavatsalam Memorial College for Women	Korattur	7358752096
A.vinodhini	Student	Bhaktavatsalam Memorial College for Women	Chennai	8939374665
Varshini.L	Student	Bhaktavatsalam Memorial College for Women	Korattur	7200038124



Online seminar on "Finite Automata: A Mathematical Perspective on Algebra and Logic"(14-10-2025)

Timestamp	Name of the Participant	Department	Designation	Name of the College/ Institution	Place	Mobile number
9-29-2025 12:52:43	Varsha.G	Mathematics	Student	Bhaktavatchalam Memorial College for women	Chennai	9344897945
9-29-2025 12:53:20	A.vinodhini	Mathematics	Student	Bhaktavatsalam memorial college for women	Chennai	8939374665
9-29-2025 14:20:23	Ranjitha S	Mathematics	Faculty	BMS College For Women	Bengaluru	8884790287
9-29-2025 16:16:03	Thirisha. P	Mathematics	Student	Bhaktavatsalam Memorial College for Women	Chennai	7358752096
9-29-2025 17:54:20	VAISHALI N K	Mathematics	Faculty	BMS COLLEGE FOR WOMEN,BASAVANAGUDI	Bengaluru	9916004561
9-30-2025 0:02:03	Awoke Tesfaw Arega	Mathematics	Faculty	Gambella University	Ethiopia	+251930741720



The Department of Mathematics, Dr. M.G.R. Educational and Research Institute organized an online seminar "Finite Automata: A Mathematical Perspective on Algebra and Logic" on 14/10/2025. The primary objective of the seminar is to explore the connections between finite automata and mathematical frameworks. The session commenced @2.00pm with a warm welcome address by Dr. T. Johnson, HOD, Dept. of Mathematics. Ms.P.Ramya Gayathri, Research Scholar, Dept. of Mathematics introduced the Resource Person of this event, Dr. R.Kiruthigha, Assistant Professor, Department of Information Technology, SRM Institute of Science and Technology, Ramapuram, Chennai.

The session began with a basic introduction to finite automata, its types, and its role in recognizing regular languages. It then transitioned to the algebraic perspective by explaining DFA, NFA and Designing FA from RE etc.,

The resource person provided a clear and comprehensive overview of finite automata beyond the computational perspective, highlighting the mathematical beauty behind them. Overall, the event was informative and well-structured.



The session was highly conveyed the importance of algebra and logic in understanding finite automata, encouraging participants to appreciate the interdisciplinary nature of theoretical computer science, and it proved to be very beneficial for all the participants, especially the students and faculties from the Bhaktavatsalam Memorial College for Women, Chennai as a part of our MOU.

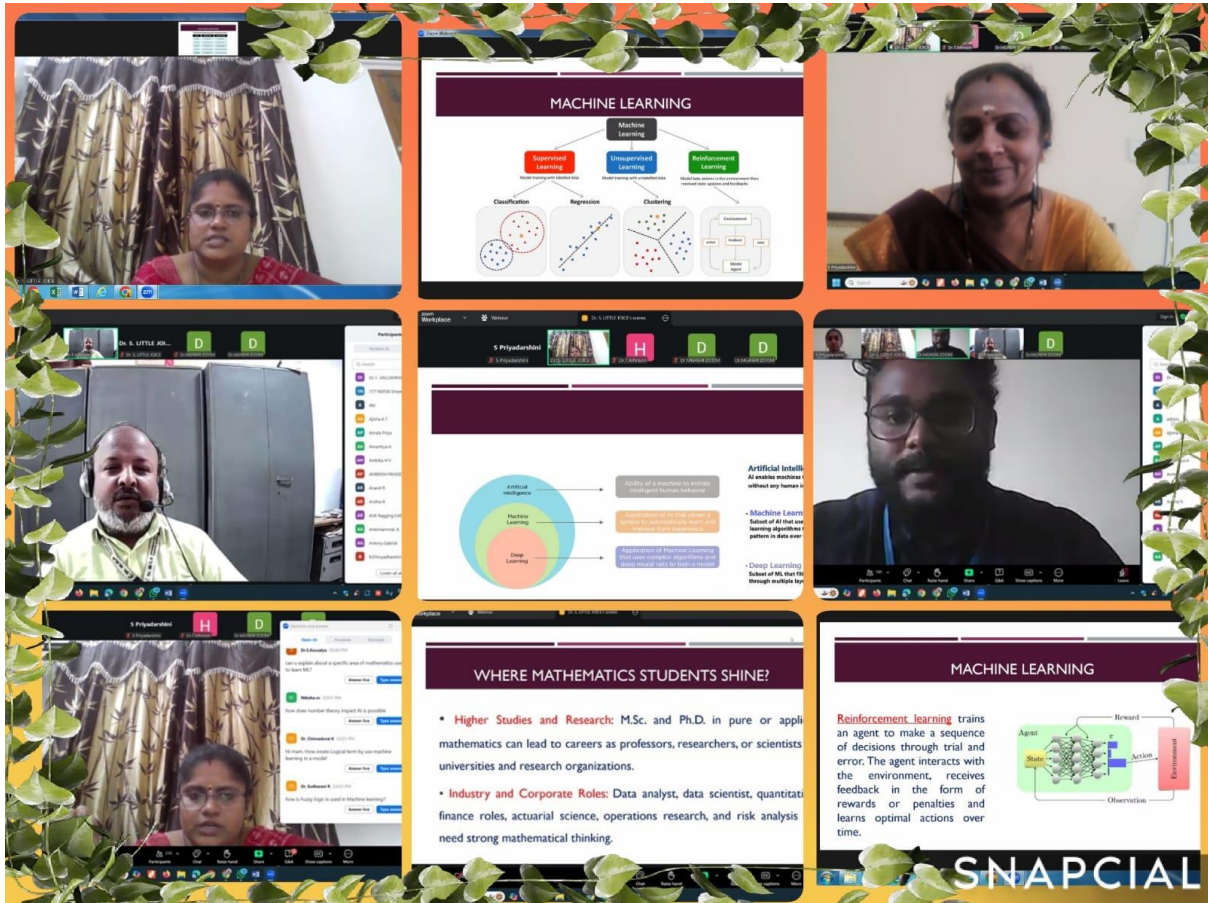
Name of the Participant	Designation	Department	Name of the College/ Institution	Place	Mobile number
VARSHA. G	Student	Mathematics	Bhaktavatchalam Memorial College for women	Chennai	9344897945
A.vinodhini	Student	Mathematics	Bhaktavatsalam memorial college for women	Chennai	8939374665

Online seminar on "Future Trends and key Challenges in Mathematics"(04-12-2025)

Time stamp	Name of the Participant	Department	Designation	Name of the College/ Institution	Place	Mobile number
11-19-2025 10:47:32	VAISHALI N K	Mathematics	Faculty	BMS COLLEGE FOR WOMEN AUTONOMOUS	BANGALORE	9916004561
11-19-2025 10:48:08	Ranjitha S	Mathematics	Faculty	BMSCW Autonomous	Bengaluru	8884790287
11-19-2025 12:37:20	Gatwech Gach Jock	Physics	Lecturer	Gambella University	Gambella, Ethiopia	954615836
11-19-2025 12:48:06	Tekileab Engida Gebremichael	Chemistry	Researcher and Academic Lecturer	Gambella University, Ethiopia	Ethiopia	+251914975434
11-19-2025 21:30:49	Ms.K.R.Sanghavi	Mathematics	Faculty	Bhaktavatsalam Memorial College For Women	Chennai	9840439559
11-25-2025 14:03:51	Sangeetha C	Mathematics	Student	Bhaktavatsalam Memorial College for Women	Chennai	6238277401
11-25-2025 14:08:25	Dhanalakshmi K	Mathematics	Student	Bhaktavatsalam memorial college For Women	Chennai	9361048343
11-25-2025 14:10:15	Dhanalakshmi K	Mathematics	Student	Bhaktavatsalam memorial college For Women	Chennai	9361048343
11-25-2025 14:21:14	VARSHA. G	Mathematics	Student	Bhaktavatchalam Memorial College for women	Chennai	9344897945
11-25-2025 14:24:01	A.vinodhini	Mathematics	Student	Bhaktavatsalam memorial college for women	Chennai	8939374665
11-25-2025	P. Thirisha	Mathematics	Student	Bhaktavatsalam Memorial College for	Chennai	7358752096



21:05:49				Women		
11-25-2025	Awoke Tesfaw	Mathematics	Faculty	Gambella University	Gambella	0930741720
21:51:37						
11-27-2025	Sathyashree	Mathematics	Student	Bhaktavatsalam memorial college for women	Chennai	9342115466
13:35:27						
11-28-2025	Parish GachReat	Computer science	Student	Gambella University	Ethiopia	+251935412187
11:30:10						



The Department of Mathematics, Dr. M.G.R. Educational and Research Institute organized an online seminar titled, "Future Trends and key Challenges in Mathematics" on 4/12/2025. The Primary objective of the event is to explore the future trends in Mathematics.

The session commenced @2.00pm with a welcome address by Dr. T. Johnson, HOD, Dept. of Mathematics. Mr.Roopan sanjai, Research Scholar, Dept. of Mathematics introduced the Resource Person of the event, Dr. S.Little Joice, Assistant Professor, Department of Mathematics, Loyola College, Chennai.

The session began with a basic introduction to future trends in Mathematics. She further explained the application of Mathematics in the

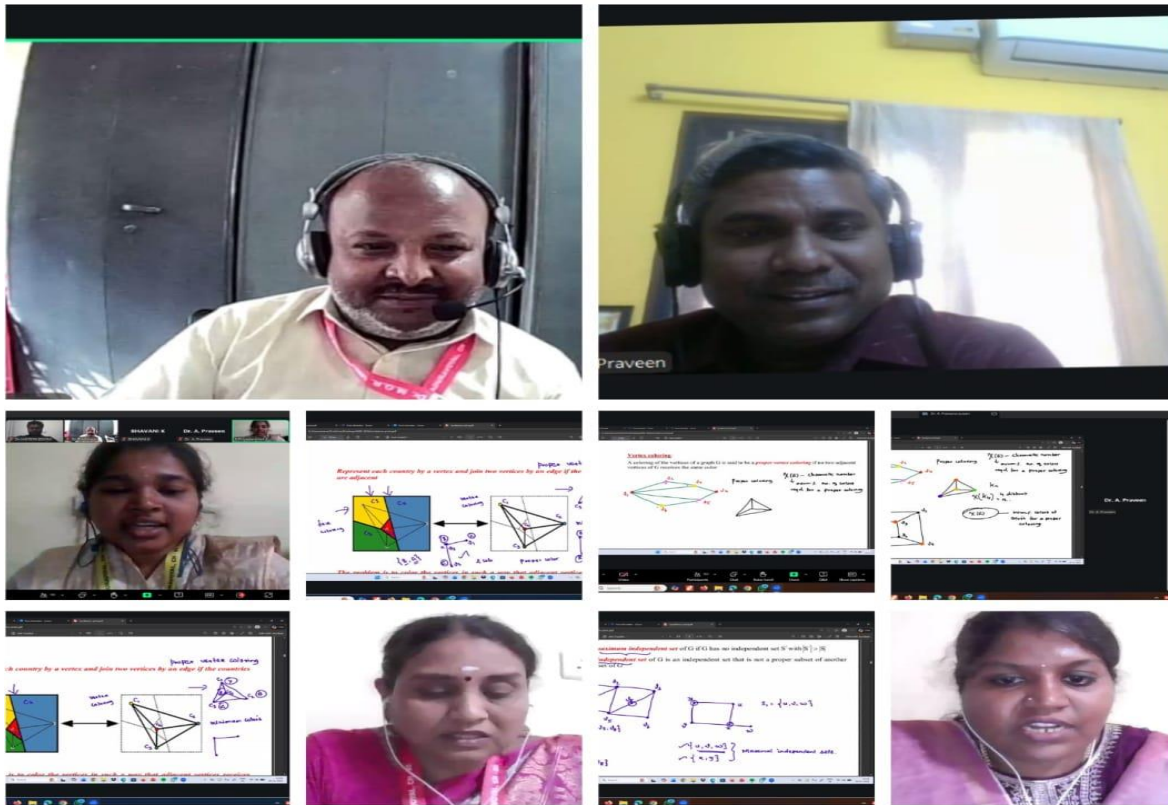


Machine learning, Deep learning and Artificial intelligence etc. She provided a clear and comprehensive overview of the computational perspective, highlighting the Mathematical beauty behind them. Overall, the event was informative and well-structured. It successfully conveyed the importance of Mathematics in Machine learning, Deep learning and Artificial intelligence etc., encouraging participants to appreciate the interdisciplinary nature of Theoretical Computer Science, especially the students and faculties from the Bhaktavatsalam Memorial College for Women, Chennai as a part of our MOU.

Name of the Participant	Designation	Department	Name of the College/ Institution	Place	Mobile number
VARSHA.G	Student	Mathematics	Bhaktavatchalam Memorial College for women	Chennai	9344897945
Dhanalakshmi K	Student	Mathematics	Bhaktavatsalam Memorial College For Women	Korattur	9361048343
Dhanalakshmi K	Student	Mathematics	Bhaktavatsalam Memorial College For Women	Korattur	9361048343

Online seminar on " Graph Theory in Network Analysis"(30-01-2026)

Name of the Participant	Department	Designation	Name of the College/ Institution	Place
Varsha G	Mathematics	Student	Bhaktavatchalam Memorial college for women	Chennai
VAISHALI N K	Mathematics	Faculty	BMS COLLEGE FOR WOMEN, AUTONOMOUS	Bengaluru
Dhanalakshmi K	Mathematics	Student	Bhaktavatsalam Memorial College For Women	Chennai
Sangeetha c	Mathematics	Student	Bhaktavatsalam Memorial College For Women	Chennai
Varshini. L	Mathematics	Student	Bhaktavatsalam Memorial College for Women	Chennai
Vinodhini.A	Mathematics	Student	Bhaktavatsalam memorial college for women	Chennai
P. Thirisha	Mathematics	Student	Bhaktavatsalam Memorial College for Women	Chennai
P. Rithika	Mathematics	Student	Bhaktavatsalam Memorial College for Women	Chennai
Dr. E. JOTHI	Mathematics	Faculty	Bhaktavatsalam Memorial College for women	Chennai
Ms.K.R.SANGHAVI	Mathematics	Faculty	BHAKTAVATSALAM MEMORIAL COLLEGE FOR WOMEN	Chennai
Padma D	Mathematics	Faculty	Bhaktavatsalam memorial college for women	Chennai
P.Nathiya	Mathematics	Faculty	Bhaktavatsalam Memorial college for Women	Chennai
S.BHARATHI	Mathematics	Faculty	BHAKTAVATSALAM MEMORIAL COLLEGE FOR WOMEN	Chennai



The Department of Mathematics, Dr. M.G.R. Educational and Research Institute organized an online seminar titled, "Graph Theory in Network Analysis " organized by the Department of Mathematics, Dr. M.G.R. Educational and Research Institute on 30/1/2026. The Primary objective of the event is to explore the Graph Theory in Network Analysis . The session commenced at 2.00pm with a welcome address by Dr. T. Johnson, HOD, Dept of Mathematics. Ms.P.Ramya Gayathiri , Research Scholar, Dept of Mathematics introduced the Resource Person of the event, Dr. A.Praveen , Associate Professor, Department of Mathematics, St. Joseph's College (Autonomous), Tiruchirappalli . The session began with a basic introduction to Graph Theory in network analysis. Dr.A.Praveen further explained the application of graph theory in network analysis in Königsberg problem in graph theory , Four colour problem, Independent vertices, vertex colouring, and Application of edge colouring problem .etc. He provided a clear and explained overview of the Network Analysis perspective, highlighting the graph theory beauty behind them. Overall, the



event was informative and well-structured. It was successfully conveyed the importance of graph theory in Network Analysis, Deep learning of application etc., encouraging participants to appreciate the interdisciplinary nature of Theoretical Computer Science, especially the students and faculties from the Bhaktavatsalam Memorial College for Women, Chennai as a part of our MOU.

Name of the Participant	Designation	Department	Name of the College/ Institution	Place	Mobile number
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