G. T. N. ARTS COLLEGE (AUTONOMOUS), DINDIGUL
DEPARTMENT OF MATHEMATICS
GLIMPSES OF DBT ACTIVITIES – ACADEMIC YEAR 2024-25

S. No.	Type of Programme	Title of the Programme	No. of Programme	Date
1.	MoU Signing and Expert Talk	Recent Trends in IT	1	19.07.2024
2.	Seminar	Special Lecture on Recreational Mathematics	4	07.08.2024
		Role of Mathematics in Artificial Intelligence		23.09.2024
		Graph Theory and its Applications		04.10.2024
		Fuzzy set and its application		24.01.2025
3.	Workshop	Graphing 3D objects in Geogebra	4	14.08.2024
		Preparation for Competitive Examination in Mathematical Science		20.12.2024
		Graph Theory and Linear Algebra using Sagemath		22.01.2025
		Fundamentals of Statistics and its Applications using R Programming		27.01.2025
4.	Hands on Training	Day Book in MS-Excel	1	26.09.2024
5.	Winter Training	Algebra and Analysis	1	09.12.2024 - 13.12.2024
6.	Invited Talk	Differential Equations and its Applications	2	17.12.2024
		A Motivational Talk on Mathematics		18.12.2024
7.	Internship	Internship Program at Syscom Infotech, Dindigul	1	06.01.2025 - 19.01.2025
8.	Faculty Development Programme	Intellectual Property Rights and Consultancy in Mathematics	1	21.01.2025
9.	Lab Assistant Development Programme	A Open source software in Mathematics Laboratory	1	04.02.2025
10.	Educational Tour	Educational tour to Mother Teresa University, Kodaikanal	1	11.04.2025
11.	DBT Advisory Committee	DBT Advisory Committee meeting	1	26.03.2025

1. MOU Signing and Expert talk on Recent Trends in IT on 19.07.2024





The Department of Mathematics organized a MoU Signing and Expert Talk on "Recent Trends in IT" on 19.07.2024, where Mr. S. K. Sanjay Raj delivered insights on web development, AI and ML, resulting in opportunities such as internships, skill programs, industrial training and placements through the MoU, and benefiting 56 PG and UG Mathematics students who actively participated and found the session highly useful.

2. A Special Lecture on Recreational Mathematics on 07.08.2024

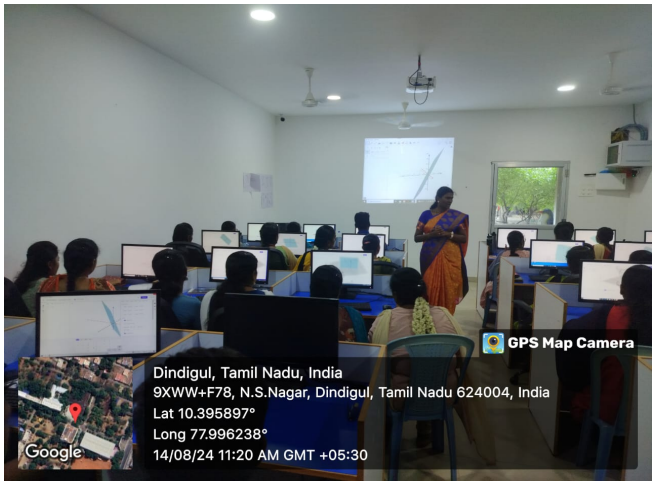




The Department of Mathematics organized a Special Lecture on "Recreational Mathematics" on 07.08.2024, during which Dr. D. Johnson introduced magic squares, fallacies, binary codes and paradoxes, resulting in hands-on learning outcomes such as constructing magic squares and encoding–decoding messages, and benefiting around 48 participating students who gained useful skills and gave positive feedback.

3. Workshop on Graphing 3D objects in Geogebra on 14.08.2024





The Department of Mathematics organized a Workshop on Training on "Graphing 3D Objects in Geogebra" on 14.08.2024, where Dr. Nivetha Martin guided students in exploring, visualizing and constructing mathematical concepts using Geogebra, resulting in enhanced learning outcomes and benefiting around 40 students who actively participated and found the session highly useful.

4. Seminar on "Role of Mathematics in Artificial Intelligence" on 23.09.2024





The Department of Mathematics organized a seminar on "Role of Mathematics in Artificial Intelligence" on 23.09.2024, where Dr. M. Gillbert Rani explained how core mathematical areas such as Calculus, Linear Algebra, Graph Theory and Probability form the foundation of AI used in fields like medicine, technology and education, resulting in improved understanding of AI concepts and benefiting around 50 participants who gave positive feedback.

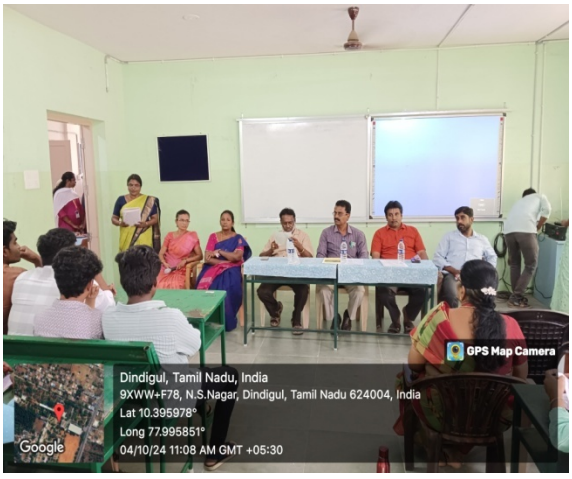
5. A One Day Hands on Training on “Day Book in MS-Excel” on 26.09.2024





The Department of Mathematics conducted a one-day hands-on training on "Day Book in MS-Excel" on 26.09.2024, where Mrs. J. Sangeetha Lakshmi taught students the practical use of Excel for day books, budgeting, billing, sales, reporting and basic mathematical calculations, resulting in improved data-handling skills and benefiting about 60 students who actively participated and found the session highly useful.

6. A Seminar on “Graph Theory and its Applications "on 04.10.2024





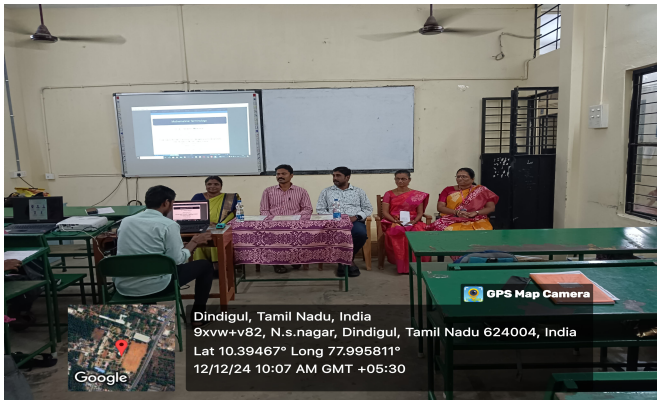
The Department of Mathematics organised an invited talk on "Graph Theory and its Applications" on 04.10.2024, where Dr. R. Revathy explained concepts such as spanning trees, shortest path algorithms, chemical bonds and network flows with real-world examples, resulting in enhanced understanding of graph-theoretic applications and benefiting all participating students through the department’s continued effort toward quality academic enrichment.

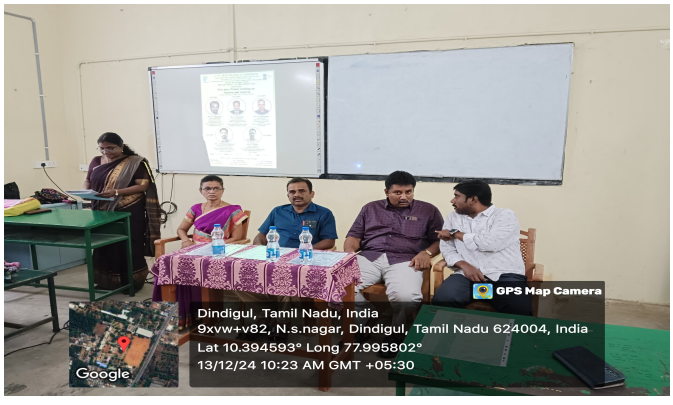
7. Five Day Winter Training on Algebra and Analysis from 09.12.24 to 13.12.24











The Department of Mathematics organized a Five Days Winter Training on "Algebra and Analysis" from 09.12.2024 to 13.12.2024, during which eminent mathematicians delivered sessions on sequences and series, metric spaces, sets and functions, axioms and proofs, and algebraic structures, resulting in enhanced conceptual understanding in analysis and algebra and benefiting around 60 participating students who found the entire training highly useful.

8. An Invited Talk on Differential Equations and its Applications on 17.12.2024





The Department of Mathematics organized an invited talk on "Differential Equations and its Applications" on 17.12.2024, where Dr. P. Muthukumar explained models such as bacterial growth, Lotka–Volterra predator–prey interactions, autonomous and non-autonomous systems, linear and nonlinear systems, and discrete and continuous models, resulting in deeper understanding of dynamic systems and benefiting the students, who found the session highly informative and inspiring.

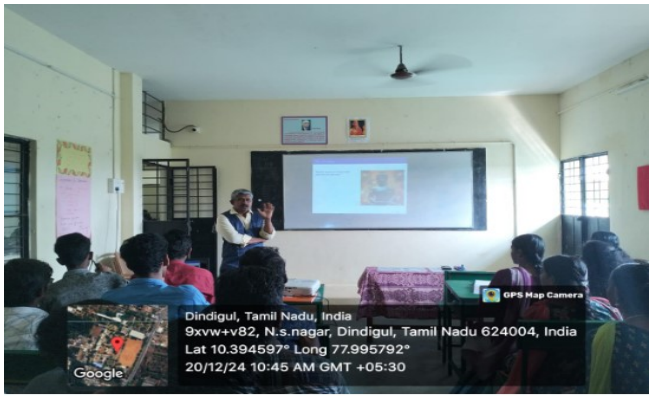
9. "A Motivational Talk on Mathematics" on 18.12.2024





The Department of Mathematics organized an invited talk on "A Motivational Talk on Mathematics" on 18.12.2024, where Dr. A. Mohamed Ali shared inspiring stories of mathematicians and explained real-life applications of mathematics, resulting in increased student motivation and benefiting the participants who gave positive feedback and expressed interest in developing a stronger mathematical mindset.

10. A Workshop on Preparation for Competitive Examination in Mathematical Science on 20.12.2024

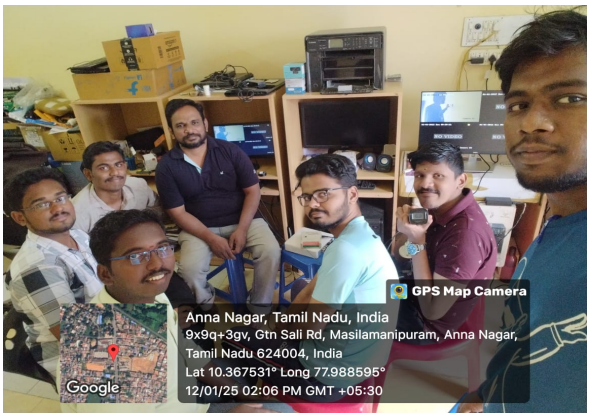




The Department of Mathematics organized a workshop on "Preparation for Competitive Examinations in Mathematical Science" on 20.12.2024, where Dr. S. Ganesan explained strategies such as mastering core concepts, practicing problems, managing time and using standard resources, resulting in improved exam-preparation skills and benefiting the participating students who gained practical guidance for competitive tests

11. Internship Programme on Syscom Infotech from 06.01.2025 to 19.01.2025





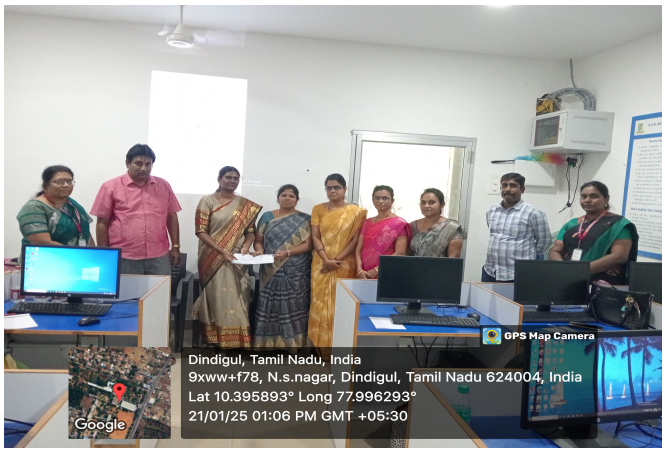




A group of 21 students from III year B. Sc., Mathematics participated in a 15-day Internship Program at Syscom Infotech, Dindigul from 06.01.2025 to 19.01.2025.

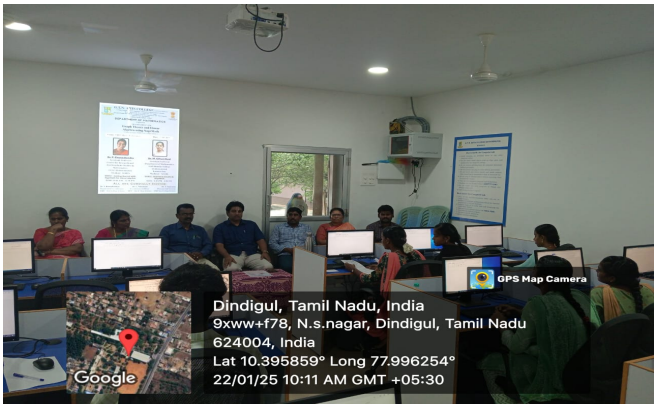
12. FDP on Intellectual Property Rights and Consultancy in Mathematics on 21.01.2025

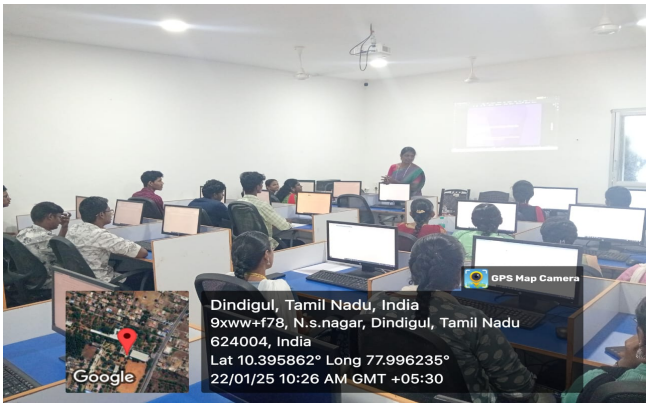




The Department of Mathematics organized a Faculty Training Programme on "Intellectual Property Rights and Consultancy in Mathematics" on 21.01.2025, where Dr. Nivetha Martin explained the importance of IPR and patents along with the step-by-step patent-filing process, resulting in enhanced awareness of research innovation and benefiting 22 faculty members who found the session highly useful.

13. A Workshop on Graph Theory and Linear Algebra using Sagemath on 22.01.2025



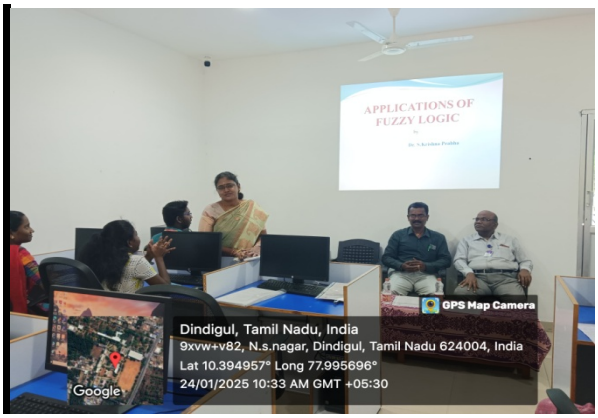


The Department of Mathematics organized a One-Day Workshop on "Graph Theory and Linear Algebra using SageMath" on 22.01.2025, where Dr. P. Gnanachandra and Dr. M. Gilbert Rani introduced SageMath, explained graph-theoretic and linear algebra applications, and guided

participants in creating graphs and solving mathematical problems, resulting in improved computational skills and benefiting 22 students and 10 staff members who actively participated.

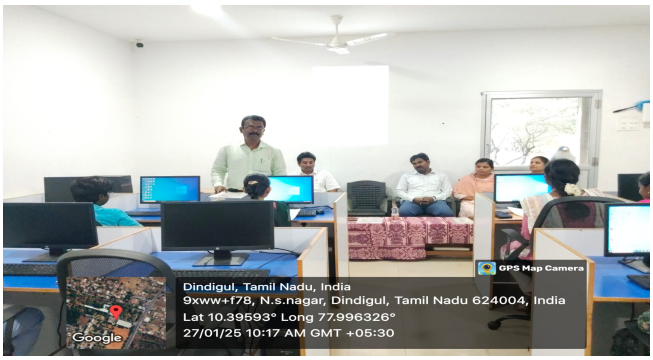
14. A Seminar on Fuzzy set and its Applications on 24.01.2025

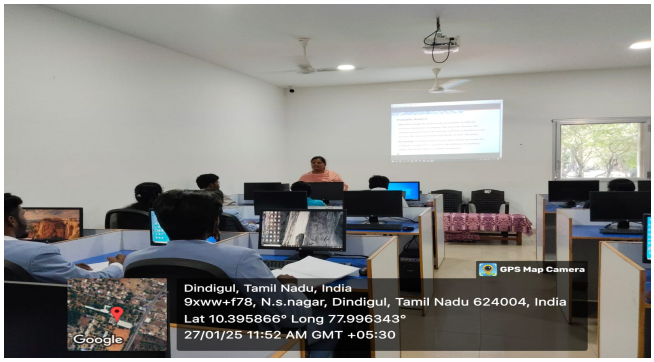




The Department of Mathematics organized an invited talk on "A Seminar on Fuzzy Set and its Applications" on 24.01.2025, where Dr. S. Krishna Prabha explained fuzzy logic, types of fuzzy sets, defuzzification methods and real-world applications, resulting in clearer understanding of fuzzy set theory and benefiting the students who learned to identify practical problems where fuzzy logic can enhance decision making.

15. A Workshop on Fundamentals of Statistics and its Applications using R Programming on 27.01.2025

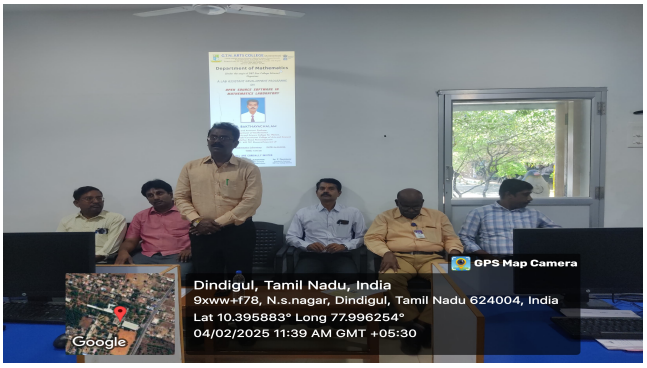


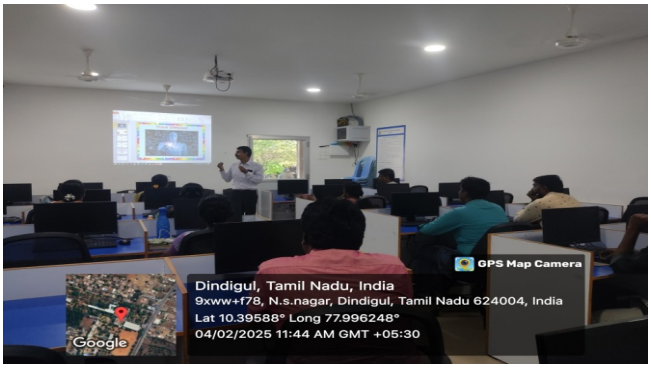


The Department of Mathematics organized a workshop on "Fundamentals of Statistics and its Applications using R-Programming" on 27.01.2025, where Dr. M. Shafiya introduced core

statistical concepts and future prospects, and Dr. B. Karthick demonstrated data analysis techniques in R with practical coding, resulting in enhanced statistical and computational skills and benefiting all participating students through effective hands-on learning.

16. A Lab Assistant Development Programme ON "A OPEN SOURCE SOFTWARE IN MATHEMATICS LABORATROY" on 04.02.2025





The department of Mathematics organized a one-day Lab Assistant Development Programme on "Open Source Software in Mathematics Laboratory" on 04.02.2025, where Dr. R. Bakthavachalam introduced various free mathematical software tools, installation methods, data analysis features and problem-solving platforms, resulting in enhanced practical skills and benefiting lab assistants, research scholars and faculty who found the session highly informative and useful.

17. EDUCATIONAL TOUR ON 11.03.2025

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The Department of Mathematics, G T N Arts College (Autonomous) organized an educational tour to Mother Teresa University, Kodaikanal on March 11, 2025 with 48 students of I,II and III year students. Four Faculty members, Dr. P. Pandiammal, Assistant Professor of Mathematics, Dr.J.Kaliga Rani, Assistant Professor of Mathematics, Mr. K. Sujatha, Assistant Professor of Mathematics and V. Kasivishalakshi Praveena, Assistant Professor of Mathematics accompanied the students.

18. **DBT INTERNAL ADVISORY COMMITTEE MEETING ON 26.03.2025**







The Department of Mathematics conducted Research Advisory Committee Meeting on 26.03.2025. Dr. R. Uthaya Kumar, Senior Professor and Dr. G. Mahadevan, Professor, Department of Mathematics, The Gandhigram Rural Institute – Deemed to be University, Gandhigram – 624 302., was the resource person. Around 15 staff members attend the meeting.