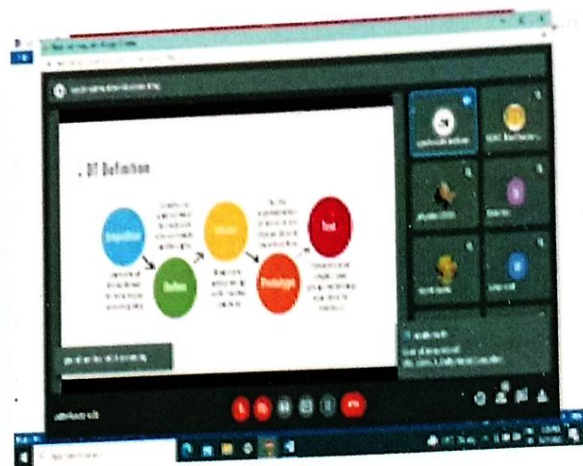


and Mr. M. Manikandan, B.Sc. Agri., Teaching Faculty, Unnati IAS Academy, Thanjavur, have performed as Resource Persons in the workshop.



## Students Induction Program

Students induction program was conducted for the first year UG students on 22.09.2021. The first Session resource person Dr.P.Jayagowri, Assistant professor of Mathematics, Sudharsan college of Arts and Science, Perumanadu, Pudukkottai (District) delivered a lecture on Programme outlook and Avenues. The second session resource person Dr.P.Kavitha Assistant professor of Mathematics, J.J. College of Arts and Science,(Autonomous) Pudukkottai gave a lecture on Skilling upskilling and reskilling- Industrial readiness. The third Session resource person Mr.Syed Nazimudeen, Assistant manager, Minds Cube.Com delivered a lecture on research insight through online.



## Installation of Association



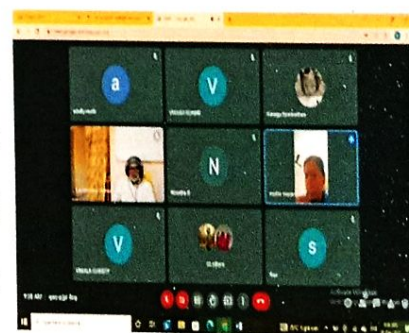
Installation of association were inaugurated successfully on 18.10.2021. Mr.J.Pandian Associate Professor of English, Bon Secours College for women, Thanjavur was the resource person. In our College premises, College office bearers as well as department office bearers took oath.

## Career Counselling Program

Our department organized Career Counselling Program titled “My Career: My Vision” for I and II year UG students on 6th December 2021 at Auditorium III. 151 students participated in the program. Dr S. Priyadharshini, Assistant Professor of Mathematics, J.J. College of Arts and Science, Pudukottai was the resource person.

## National Mathematics Day

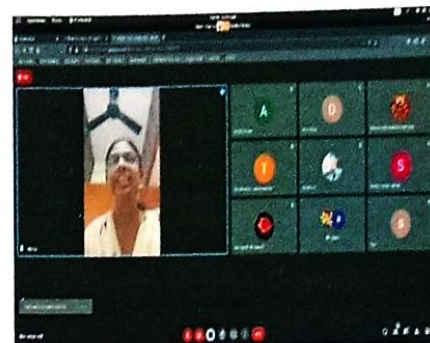
Our Department celebrated the birth anniversary of Srinivasa Ramanujan as National Mathematics day. On that day our department organized a seminar in the Google Meet Platform. 100 students participated in this program. Dr. V. Lakshmana Gomathi Nayagam, Assistant Professor of Mathematics, National Institute of Technology, Trichy, Tamil Nadu, India was the resource person. He gave invited talk on “Application of Fuzzy Number System.





## Republic Day

Our department Celebrated Republic Day in the Google Meet Platform. 100 students participated in this program. Ms. A. Helen Shobana, Assistant professor of Mathematics delivered lecture about freedom fighters. Dr. M. Sheela, Head Department of Mathematics gave a motivational speech on the topic "Youth Power". We organized oratorical and rangoli competition. The theme for the oratorical competition & Rangoli was "Freedom Fighters". For each competition 10 students participated and judges for the competition declared the winners and prizes were awarded on the basis of the ranking.



## University Rank Holders

Our department students got 5 UG and 23 PG university rank in the University Examination in this academic year.

## Student's Achievement

Our department student Ms. R. Abinaya of I Maths 'A' participated in Poetry writing competition organized by Bharathi Puthagaalayam, Tamil Nadu Ariviyal Iyakkam, Tamil Nadu Murpokku Ezhuthalar Kalaingar Sangam on October 2 to 10.

## Staff participation in Seminar, FDP and Workshop

➤ Ms. A. Helen Shobana, Ms. R. Umadevi and Ms. M. Anusiya participated in "Six Days Faculty Development Programme on "Latex" conducted by Department of Mathematics, Auxilium College of Arts and Science for Women, Pudukkottai, from 7th to 12th June 2021.

➤ Ms. R. Umadevi – Participated in Faculty Development Programme on Graph Theory, Christ College of Science and Management, Karnataka from June 29th to July 03rd, 2021

Ms. A. Dally Maria Evangeline, Ms. A. Helen Shobana, Ms. R. Umadevi and Ms. M. Anusiya, participated in the "Six Days Faculty Development Programme on Mathematics and Statistics in Emerging Field" conducted by Department of Mathematics, KPR Institute of Engineering and Technology held from 5th to 10th July 2021.

- Ms. A. Dally Maria Evangeline, Department of Mathematics, has participated in Five Days "National Level Virtual Faculty Development Program on Graph Theory" held from 29th June 2021 to 3rd July 2021 organized by Department of Science in Collaboration with IQAC, Christ College of Science and Management, Karnataka through Google Meet Platform.
- Ms. R. Umadevi – Participated in online workshop on One – Day Swachhta Action Plan, Ministry of Education, Government of India on 27th August 2021
- Ms. R. Umadevi – Participated in online workshop on Mahatma Gandhi National Council of Rural Education, Department of Higher Education, Ministry of Education, Government of India on 27th August.
- Ms. A. Dally Maria Evangeline and Ms. M. Anjali Devi, Assistant Professors of Department of Mathematics, participated in the Four Day National Level Online webinar "Current Trends in Research & Innovation – Research Paper Publications – IPR and Patents – Research Projects & Fund Raising" held from 27th – 31st August 2021 conducted by Institute for Academic Excellence, Hyderabad, in collaboration with "Collegiate Education & Technical Education Department, Telangana through Online Platform.
- Ms. R. Umadevi and Ms. A. Dally Maria Evangeline, participated in International Webinar Series – Advances in Applied Mathematical Sciences from 20th to 24th September 2021 organized by the Department of Mathematics & Statistics, Newman College, Thodupuzha, Kerala through Google Meet Platform.
- Ms. A. Dally Maria Evangeline participated in three days National Level STTP on Quality Enhancement of Research in HEIs organized by Department of Mathematics, PSGR Krishnammal College for Women, Coimbatore under UGC-Paramarsh Scheme, from 23rd September to 25th September 2021 through Zoom Platform.





## BON SECOURS COLLEGE FOR WOMEN

Nationally Accredited with 'A++' Grade by NAAC in Cycle II  
(Recognized by UGC under sections 2(f) & 12(b))

Thanjavur - 613006, Tamil Nadu, India



## DEPARTMENT OF MATHEMATICS

### ABOUT THE DEPARTMENT

The Department of Mathematics has been established in the Academic year 2002, it has been upgraded with PG programme in the year 2005 and has also offered M.Phil. Research Programme from the year 2010. We have sixteen eminent and efficient faculty members and 615 enthusiastic students. The department aims at the overall development of the students by involving them to organize seminars, participate in cultural events, attend the guest lecturers given by the experts, to present power-point presentation to uplift the existing standard and also show-case the talents of the students.

### VISION

The vision of the Department is to produce committed, competent, efficient and professionally capable graduates and research scholars in the field of Mathematics

### MISSION

The Department offers high-quality Mathematics with a view of producing good citizens, who would be efficient teachers and high-tech researchers.

### Problem Solving and Ideation – Using ANT Intelligence (01.02.2022)

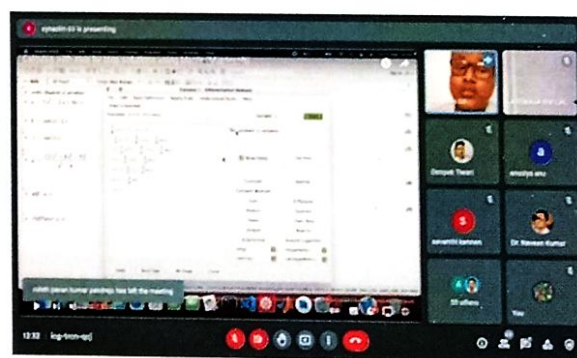
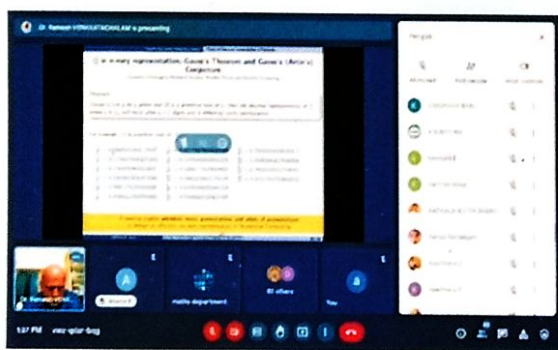
Department of Mathematics in collaboration with Institution's Innovation Council (IIC), organized "Problem Solving and Ideation – Using ANT Intelligence". Dr Sishaj P. Simon, Associate Professor of Department of EEE, National Institute of Technology, Trichy, acted as the resource person. He explained how ants use their ability to communicate, avoid and fight enemies, search for food, show courtship signals, and use complex navigation over long distance. He also explained how the ant intelligence is used to solve Assignment Problem, Transportation Problem and Linear Programming Problem in Mathematics.





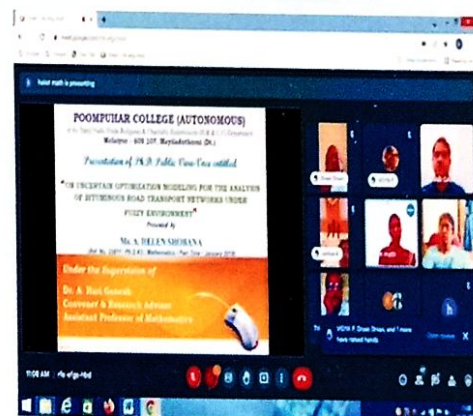
Five Days National Level Online Faculty Development Programme on “Mathematics in Real, Applied & Computational Learning Environment” (MIRACLE 2022) (20.02.2022 to 24.02.2022)

Department of Mathematics organized Five Days National Level Online Faculty Development Programme on “Mathematics in Real, Applied & Computational Learning Environment” (MIRACLE 2022) through Google Meet Platform from 20th February to 24th February 2022. This programme was aimed at addressing the recent developments in the areas of real, applied and all computational learning environments. The objective of this programme is to understand the recent developments in Mathematical Sciences. Also, to identify the areas of current and ongoing research in Mathematics/Statistics. On the first day, Dr Ramesh. V.P., Assistant Professor, School of Mathematics & Computer Science, Central University of Tamil Nadu, Thiruvavur, acted as the resource person. He gave virtual talk on the topic “A Few Discoveries in Number Theory for Scientific Computing”. Mr. S. Syed Nazimuddeen, Assistant Manager (Consultancy), Mindcube.com, acted as the resource person for the day 2 & 3. He gave lectured on “Machine Learning for Mathematics” and “Artificial Intelligence for Mathematics”. Dr B. Rushi Kumar, Associate Professor of Mathematics, Department of Mathematics, School of Advanced Sciences, VIT, Vellore, Tamil Nadu, was the resource person on fourth day and he gave lecture on “Mathematical Modeling using Differential Equations”. On Day 5, Dr H. S Ramane, Professor of Mathematics, Karnatak University, Dharwad, Karnataka, was the resource person and he gave lecture on “Energy of Graphs”. 131 participants registered and 100 participants from the various institutions across the country participated in the programme and certificates were sent to the participants through Gmail.



### Ph.D., Viva Voce (17.03.2022)

Our staff member Ms. A. Helen Shobana, Assistant Professor of Mathematics, successfully completed her Ph. D Viva Voce Online Examination through Google Meet Platform on 17th March 2022 under the title “On Uncertain Optimization Modeling for the Analysis of Bituminous Road Transport Networks under Fuzzy Environment” under the supervision of Dr A. Hari Ganesh, Convener & Research Advisor, Assistant Professor of Mathematics, Poompuhar College (A), Melaiyur-609 107, Mayiladuthurai.





## Extension Programme on “Fundamental of Mathematics” (28.04.2022)

Department of Mathematics organized an Extension Programme on “Fundamental of Mathematics” at Nanjikkottai Middle School, Nanjikkottai on 28th April 2022. 20 students participated in the programme and explained briefly about fundamental concepts of Mathematics through model presentations. School students actively participated in all the activities conducted by our Department students. At the end, as a token of memory, stationery items were distributed to the school students.



## MATH STAR'21 (30.04.2022)

Department of Mathematics organized “MATH STAR'21”, A National Level Inter-Collegiate Competition, on 30th April, 2022. 138 students from 15 various colleges were actively participated. Dr C. Vijayalakshmi, Assistant Professor, Department of Statistics & Applied Mathematics, Central University of Tamil Nadu, Thiruvavur, was the Chief Guest. Dr Sr. Cathelina, Principal, presided over the valedictory function. 7 events such as Math Quiz, Math Mind, Math Poster Presentation, Math Rangoli, Math Aptitude, Math Model Presentation and Math Paper Presentation were conducted for the participants. Idhaya College for Women, Kumbakonam, won the overall championship.



## Staff Participation:

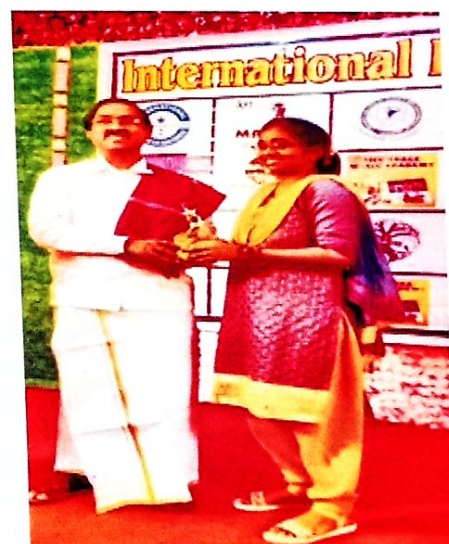
Ms. A. Dally Maria Evangeline, Ms. J. Manjula, Ms. D. Arivuselvi, Ms. D. Lavanya, Assistant Professors of Mathematics, participated in One Week Faculty Development Programme on “Effective Teaching Learning Paradigms through Pedagogical Innovations” organized by the Department of Mathematics, Sathyabama Institute of Science and Technology, Chennai from 7th to 12th February 2022 through Zoom Platform.

Ms. M. Anusiya, Assistant Professor of Mathematics, participated in the Webinar on “Intellectual Property Rights & Innovation” conducted by Govt. Arts College (A), Kumbakonam, on 7th March 2022.

## Student Participation and Achievement:

Ms. R. Abinaya of I B.Sc., Mathematics participated in Poetry Writing Competition organized by Bharathi Puthagaalayam, Tamil Nadu Ariviyal Iyakkam, Tamil Nadu Murpokku Ezhuthalar Kalaingar Sangam on 2nd to 10th October 2022.

Ms. T. Raja Jayasri, II B.Sc., Mathematics, participated and won third prize in Tamil Poetry Recital competition on the commemoration of Women's Day Celebration organized by Manasa Academy in collaboration with International Book of World Records at Bharath College, Thanjavur, on 8th March 2022. She received the prize from grandson of great poet Bharathidasan.





Ms. M. Sowbhakya, Ms. P. Madavi of I B.Sc., Mathematics and Ms. K. Srija and Ms. A. Pavithra of II B.Sc., Mathematics participated in the Skill Development Programme on “Digital Proficiency and Jobs Coalition for the Promotion of Technopreneurs 2025” organized by IQAC & Bon Secours College for Women from 9th to 11th March 2022 sponsored by Rajiv Gandhi National Institute of Youth Development, Ministry Youth Affairs and Sports, Government of India, Sriperumbudur.

Ms. S. Sushmitha and Ms. S. Yazhini of II B.Sc., Mathematics, participated and won third prize in Face Painting Competition in “VOLS-SPL 2K22”, A National Level Inter-Collegiate Competition organized by National Service Scheme, Bishop Heber College, Trichy on 19th April 2022.



Ms. K. Jeno of II B.Sc., Mathematics, Ms. J. Jasmine Vedha and Ms. J. Joan Stefina of III B.Sc., Mathematics participated in “NICHE-2022”, A National Level Intercollegiate Competition organized by Sacred Heart College of Arts & Science, Dindugul in association with Chavara Excellent Skills Academy (CESA), Dindugul, and won first prize in western group song on 20th April 2022 and our college won the overall championship.



Ms. D. Barkavi and Ms. K. P. Harshini of III B.Sc., Mathematics participated in MOTIF Deduct in “ZREYAS-2K22”, A National Level Inter-Collegiate Non-Technical Event, organized by Department of Information Technology, Bon Secours College for Women, Thanjavur, and won first prize on 30th April 2022.

Ms. R. Abinaya and Ms. T. S. Harshini of III B.Sc., Mathematics participated in the event Math Model and won first prize. Ms. Z. Hiba and S. Anu of III B.Sc., Mathematics participated in the event Math Poster Presentation and won first prize in “SANGMATICS – 2021” a State level Intercollegiate competition organized by K. Adie Mohideen College, Adirampattinam on 19.05.2022.

#### Staff Publications:

Ms. A. Helen Shobana, Assistant Professor of Mathematics, published a paper on “Critical Path Method for the Analysis of Bituminous Road Transport Network under Fuzzy Environment of Various Fuzzy Quantities” in Journal of Mathematics and Computational Science, 2021 No: 4, 4720 – 4752.