

# PROVIDENCE COLLEGE FOR WOMEN-COONOOR

## DEPARTMENT OF MATHEMATICS

### MATHEMATICS CLUB ACTIVITIES-REPORT

2022-23

The main objective of this Mathematics Club is to provide a platform for the students to enrich and discover the elegance of the subject. Besides the academic benefits, Mathematics club also paves a way to meet people and develop teamwork skills.

The activities of the Mathematics club started with the election of **Aleena of III B.Sc., Mathematics**, Raasmai **of II M.Sc., Mathematics** as President of UG and PG respectively and **Arya Sunil of II B.Sc., Mathematics** as Secretary.

The students of the department of Mathematics as a part of UBA attended Gramasabha meeting at Yedappalli Village on the 15<sup>th</sup> August 2022. Mrs. Shalini.R Assistant Professor Department of Mathematics along with Catherin Pearl.J and Sumithra.s of III B.Sc Mathematics attended the meeting. The meeting was organised by the Government Officers of various fields like E.B, Education, Health centre, Village heads, Public staff members, Village President, Council & Ward members along with Public. Various questions of the public regarding drainage system, electricity and government free schemes were explained and their doubts regarding various issues were cleared to the public. The importance of linking the aadhar with voter ID and various methods of linking was explained to the public.

As a part of the Teachers Day Celebrations, a visit to **Jothi Seva Trust, Kotagiri** was arranged on **7th September, 2022**. Students accompanied by the faculty of Mathematics visited the home and gave a programme for the blind children. The inmates also gave a programme and noon meal was also served for them. This was organized to bring awareness to our students and to motivate them to help the under privileged people.

An awareness programme on **"Say No to Plastics"** in the adopted village, Shanmuga Nagar, Coonoor was conducted as a part of UBA on 28.09.2022. **Mr.Raju**, President & Secretary of Science Forum of Tamilnadu was the resource person. He explained how plastic is harmful to manufacture and dispose. It affects our health and it also takes an incredibly long time to degrade in a natural environment. People were asked to avoid using plastic in their daily routine life. The students also distributed cloth bags **"Manja-pai"** to all of them. Their grievances were also recorded.

On 30.09.22, the department organized a **'Workshop on R Programming and GRETL'**, **Mr. N. Vigneswar**, Assistant Professor (Senior Grade) of Mathematics, Sri Ramakrishna Engineering College, Coimbatore was the resource person. He explained how the software GRETL provides statistical computing, graphical techniques and how GRETL can be extended via packages. He continued with activities based on data structures of GRETL.

A talk on '**The Role of Internet of Things in Career Development**' was organized on **11.10.2022**. **Dr. S.R. Senthil Kumar**, Associate Professor and Head, Department of Botany, St. Joseph's College, Tiruchirapalli was the resource person. He explained about the different types of food we consume, the diversity in food varieties, Indian seed vault and how the Internet of Things plays in our day today life. He also explained about patent and rules for claiming patent.

On 15<sup>th</sup> October, 2022 there was an Inspection Commission for increase in intake for PhD from the Bharathiar University. Dr.Karthikeyan S. (Convener) Professor, Department .of Mathematics, Erode Arts & Science College, ,Erode and Dr.Julia RoseMary,(Member) Associate Professor, Department of Mathematics,Nirmala College for Women, Coimbatore were the members of the commission.

To bring out the talents of our department students, **November Fantasy-22** was conducted from **08.11.22 to 16.11.22**. Various competitions like Hair Dressing, Flameless Cooking, Nail Art, Pencil Sketching Bridal Make-Up and Wealth out of Waste were conducted.

Pongal is a Harvest festival celebrated as a thanks giving ceremony for the year's harvest. So, the staff of our Department celebrated 'Pongal' on 12.01.2023.

Department of Mathematics Organized '**OLYMPIAD-2023**' in commemoration of **Ramanujan Day** on 23<sup>rd</sup> & 24<sup>th</sup> of January 2023 to enhance the skills of the students. As a part of this event, **Paper Presentation** competition was conducted on 23<sup>th</sup> January on the topic "Optimization Techniques and its Application". Seven students participated in the competition. The Judges for paper presentation were Dr.K.Karuppayi Assistant Professors, Department of Mathematics and Dr. B.Ganga, Assistant Professors, Department of Mathematics.

**Quiz competition** was organized on 24<sup>th</sup> January 2023 to develop interest of the students towards academics as well as beyond academics. There were five rounds in Science, Mathematics & General Knowledge. Students participated enthusiastically in all the events. The overall in charge for these events were Mrs.R.Kalaivani & Mrs.N.Gayathri. The Principal presided over the function and distributed the prizes for the winners of all the competition held during this academic year.

As a part of MOU activity, Department of Mathematics along with Explore Academy conducted the inauguration of III batch of coaching classes for TNPSC and Bank exams on 2<sup>nd</sup> February 2023. A training program was conducted on "Career Opportunity in Government Sectors-2023" in which the information's on TNPSC, bank, railway; SSC examinations, preparation strategy etc were shared to students. The main aim of the program is to prepare the students for their competitive examinations and help them in their career.

As a part of MOU activity, our department and Department of Chemistry K. Ramakrishnan College of Engineering , Samayapuram, Trichy conducted a Webinar on "**Gender Sensitization and Mass Media**" on 11.02.2023. The Resource Person was Dr.B. Radha, Associate Professor, Department of Media and communication, Central University of Tamil

Nadu, Thiruvavur. She explained what is equality and how does it work in a family. She also shared her views about influences of mass media in Gender. The main objective of this programme is to make the students understand that all men and women need to be treated equally and to have the same rights despite their biological differences.

The students of our department attended an One day Workshop on Innovations in Learning Mathematics -SOLSTICE-23, organized by Sri Ramakrishna Mission Vidyalaya College of Arts and Science on 9<sup>th</sup> March 2023. Totally 17 of our students took part in different competitions like Paper Presentation, Scribble, Quibble, Brain Teaser, Math Act, Math Rangoli and Miming to bring out their hidden talents. Out of 11 colleges our students secured the following places:

Aleena Binoy & Arya Sunil got the second prize in paper presentation competition. Baviya & Pooja Bhavana of II M.Sc mathematics secured the second prize in Math Act and Elakkiya S & Dhanushya G of II M.Sc mathematics got the third prize in Brain Teaser.

National Level Inter- Collegiate Fest was conducted in Collaboration with Jyothi Nivas College, Bengaluru on **10<sup>th</sup> March, 2023**. Various competitions like Artistic Geometer, Dumb Ccharades, Pattern creating, Time Hunter, Poster Making & Dress up were conducted. Our students participated in Poster Making & lecture Competition. Pavithra M of III B.Sc Mathematics won the III prize in Poster making Competition.

Our Department in collaboration with Department of Mathematics, Jyoti Nivas College (Autonomous), Bengaluru conducted a webinar on "Reliability Estimations Via Cutsets" on **15<sup>th</sup> March 2023**. The resource person for the webinar was Dr.M.Yamuna, Professor Grade 1, Department of Mathematics, School of Advanced Sciences, VIT University, Vellore. Dr.M.Yamuna spoke on reliability, basic concepts in graph theory and how graph theory and reliability are combined and used to design aircrafts.

A workshop on "**Indian Economy an Oasis in the Desert – Stock Market**" was conducted on **16.03.2023**. The Speaker of the workshop was **Mr.Guru Vittal R**, Cluster Head – HDFC Asset management Company Limited, Coimbatore. He explained about different investments like mutual funds, Stock market, SIP and So on. He gave the differences between investments in banking and investment in stock market. The main objectives of this program is to motivate the students for internship.

The students of III B.Sc Mathematics and II M.Sc Mathematics accompanied by Dr.K.Karuppai have attended the two days workshop on "Innovative Techniques Using Python On Engineering Mathematics" organized by the Department of Mathematics, Bannariamman Institute of Technology, Sathyamangalam from 23.03.2023 to 24.03.2023 as a part of MOU activity. The session covered the importance of learning programming languages like Python Programming.

A group of III B.Sc Mathematics students were taken to Government Higher secondary School, Yedappalli, for Extension activities to teach Mathematics and Science for classes VI, VII and VIII std students under the guidance of **Dr.K.Mahalakshmi** and **Mrs.N.Gayathiri** from February 2023 to March 2023. Sports were conducted for the students in the Government Higher secondary School, Yedapalli, on 29.03.2023 under the extension activity.

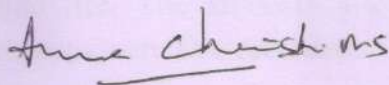
As a part of our extension work on **31st March 2023**, General Medical camp was conducted by the Department of Mathematics along with the District TB Centre and Upgraded Primary Health center, Ketti in, Shanmuga nagar, in the adopted UBA village. More than 40 people attended the camp and got benefitted.

An awareness programme on "Say no to Plastics - Use Manjapai" was organized on **01.04 23** in Bandishola, Coonoor. Mr. Manogar, former President of Consumer Awareness Club gave a talk on this topic and explained how plastics are harmful to the nature and why we have to replace it by the cloth bag (Manjapai) in our daily life. Rev Sr. Mercy Jacob, our former Provincial and Rev. Sr.Principal, Dr. Sr. Sheela presided over the function. Department Staff and students distributed the bags to the public.

As a part of MOU activity, a Multidisciplinary International webinar on Innovations & Sustainability was organized by the Department of Mathematics & Statistics, Providence Women's College, Calicut in association with the Department of Mathematics, Providence College for Women, Coonoor on **01.04.23**. The resource person was Ms. B. N. Madhushree, Responsible Sourcing Programme Manager, The Circulate Initiative, Singapore. She explained how sustainable innovation intentionally aims to "meet the needs of present generations without compromising the needs of the future generations ". She also emphasized on the sustainability issues like natural resources, the climate change, air pollution, waste production, ocean acidification, deforestation and how they can be solved by innovative techniques without market failure. It was an informative session.

It was a year full of talent search activities and it gave a lot of opportunities for students and staff to involve enthusiastically in various activities. We thank our Rev.Sr.Principal, who is always a pillar of support and strength for us in all our endeavors.

Above all we thank the Almighty for His Blessings, showered on us throughout the year.



Signature of the HOD

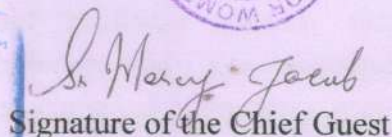




Signature of the Principal

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Signature of the Chief Guest