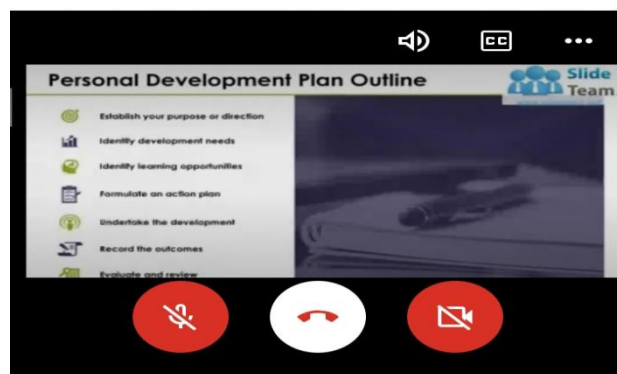
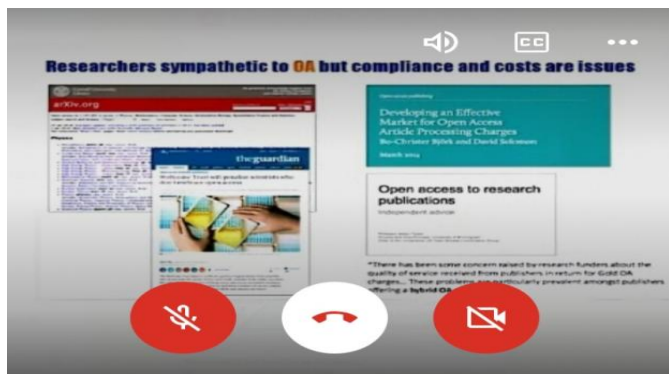


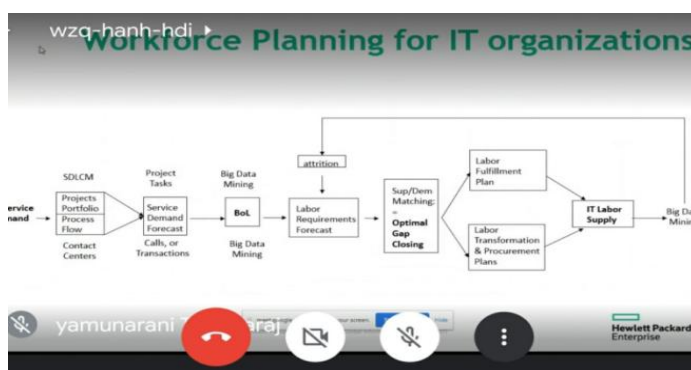
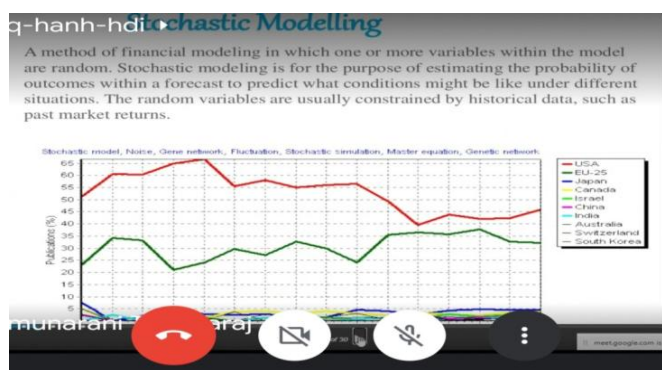
DEPARTMENT OF MATHEMATICS

2020-2021 ACTIVITIES

The Department of Mathematics of P.K.R Arts College For Women organized a “**PERSONALITY DEVELOPMENT PROGRAMME ON PERSONAL EFFECTIVENESS**” on 3rd July, 2020 through the platform on Google Meet. The Resource person of the day was **Ms. S. Mahalakshmi**, CEO, Quantum Leap Solution, Corporate Trainer, Motivational Speaker & Counsellor.

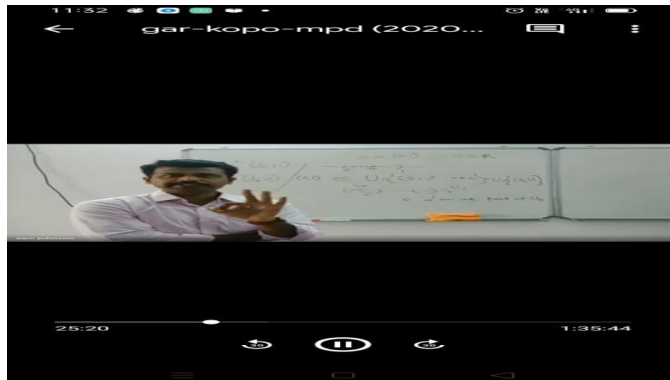
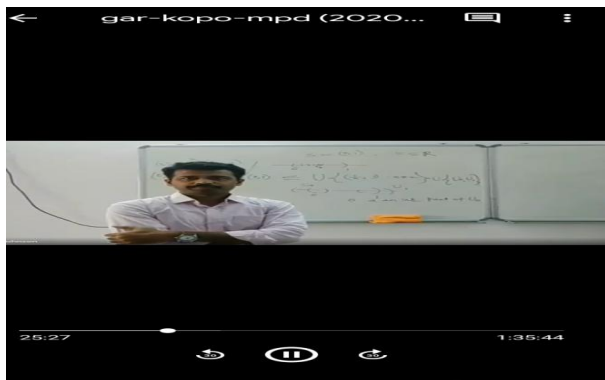


The Department of Mathematics of P.K.R. Arts College for Women organized a “**SEMINAR ON ANALYSIS OF STOCHASTIC MODELS ON MANPOWER RECRUITMENT**” on 4th July, 2020 through google meet. The Resource person of the day was **Dr.K.P.Uma**, Professor & Head Department of Science and Humanities, Hindusthan College of Engineering & Technology Coimbatore.

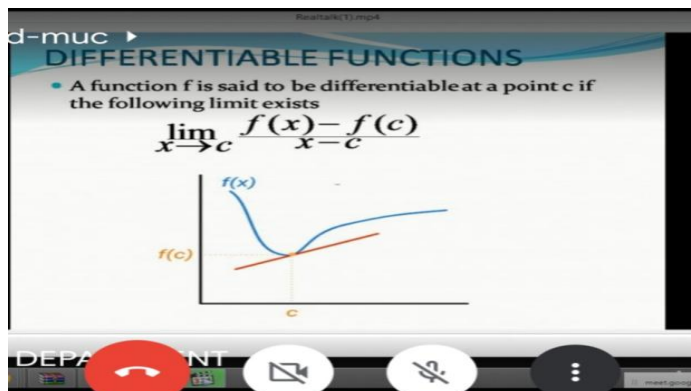
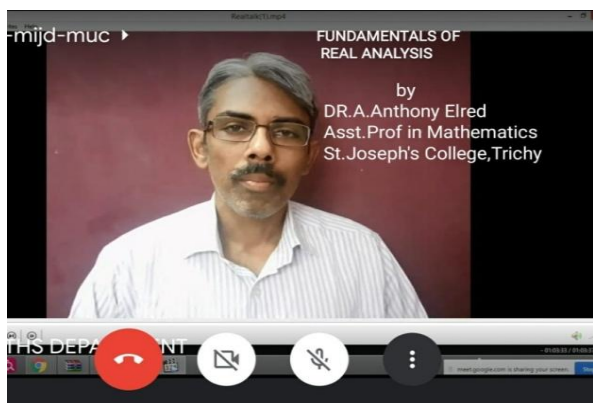


The Department of Mathematics of P.K.R. Arts College for Women organized a “**WORKSHOP ON PROBLEM SOLVING TECHNIQUES IN LINEAR ALGEBRA**” on 9th July, 2020 through Google meet. The Resource person of the day Was **S.Jagadeesan** Assistant Professor & Head Department of Mathematics, K.S.Rangasamy College of Arts and Science(Autonomous), Tiruchengodu.

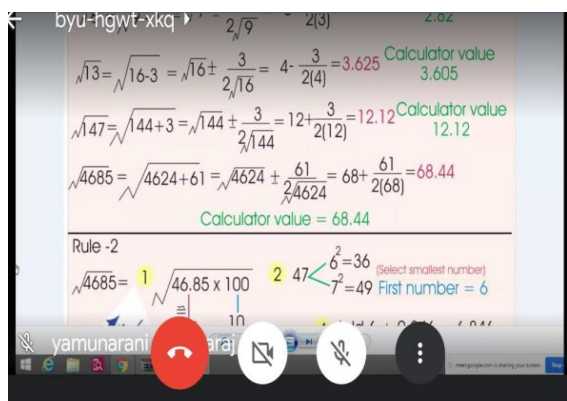
The Department of Mathematics of P.K.R. Arts College For Women organized a National “**WEBINAR ON COMPACTNESS IN A METRIC SPACE**” on 22.07.2020 in the Google Meet platform. The Resource person of the day was **Dr.P.Sam Johnson**, Associate Professor Department of Mathematical and Computational Sciences National Institute of Technology , Karnataka, Surathkal.



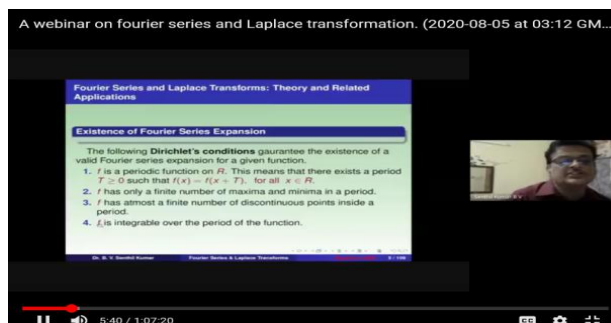
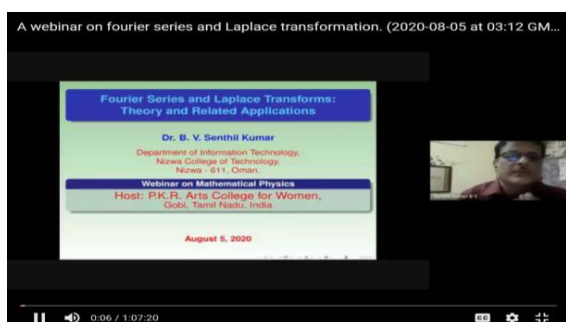
The Department of Mathematics of P.K.R. Arts College for Women organized a “**GUEST LECTURE ON MATHEMATICAL ANALYSIS**” on 30th July, 2020 through Google meet. The Resource person of the day was **Dr.A.Anthony Eldred**, Assistant Professor, Department of Mathematics, St Joseph’s College ,Tiruchirappalli



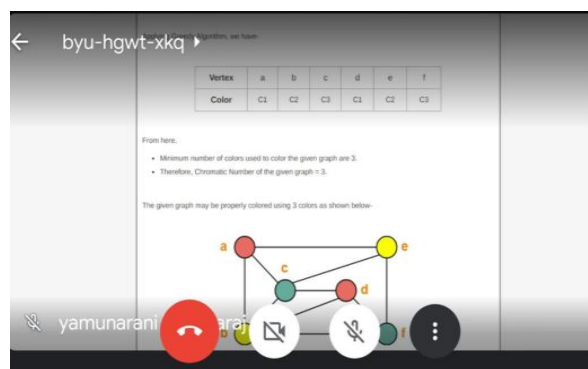
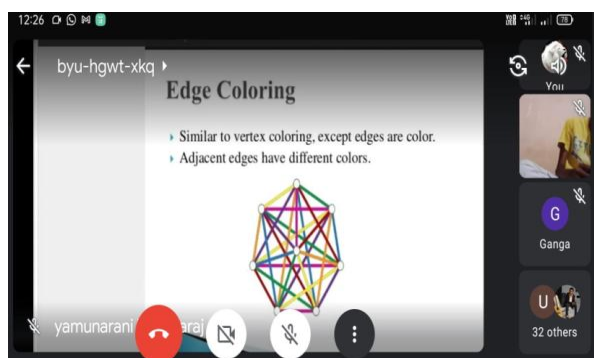
The Department of Mathematics of P.K.R. Arts College for Women organized a “**PROGRAMME ON MEMORY AND MOTIVATION**” on 31st July, 2020 through Google meet. The Resource person of the day was **R.Vijay BE**, Memory, Easy maths and Motivational trainer, Mettupalayam, Coimbatore.



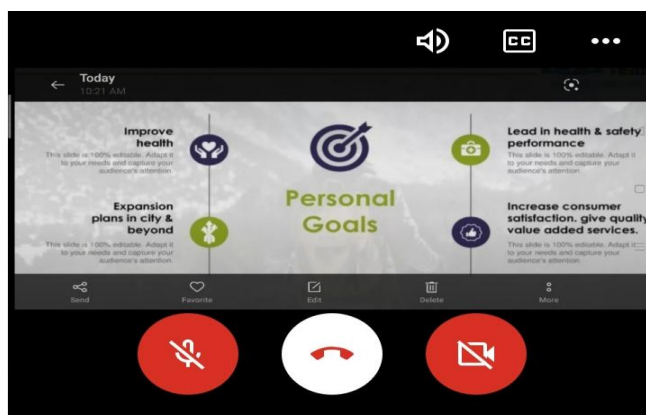
The Department of Physics and Mathematics of P.K.R. Arts College for Women jointly organized a “**WEBINAR ON FOURIER SERIES AND LAPLACE TRANSFORMS**” on 05th August, 2020 through Google meet. The Resource person of the day was **Dr.B.V.Senthilkumar** Professor in mathematics, Department of Information Technology, Nizwa College of Technology, Nizwa.



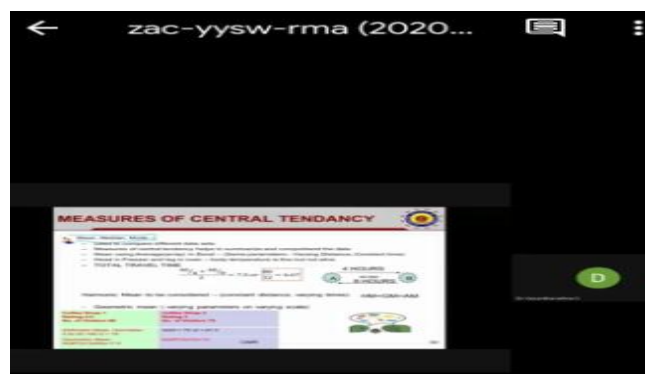
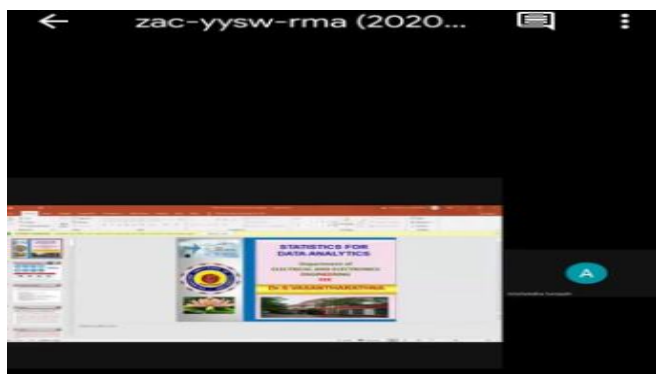
The Department of Mathematics of P.K.R. Arts College for Women organized a webinar on “**GRAPH THEORY- AN EMERGING FIELD OF RESEARCH**” on 12th August, 2020 through Google meet. The Resource person of the day was **Dr. Samir K Vaidya**, Professor and Head, Department of Mathematics, Saurashtra University, Rajkot, Gujarat.



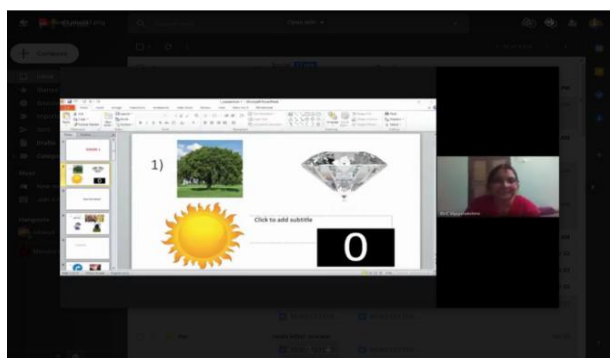
The Department of Mathematics of P.K.R. Arts College for Women organized a webinar on “**APPLICATIONS OF LAPLACE TRANSFORMS**” on 14th Aug 2020 in the online mode. The Resource person of the day was **Dr.R.Prabakaran**, Assistant Professor of Mathematics, CIT, Coimbatore.



Department of Mathematics of P.K.R Arts College for Women, Organized a Webinar on “**STATISTICS FOR DATA ANALYTICS**” on 25th September 2020 through Google meet. The Resource Person of the day was **Dr.S.Vasantharathna**, Professor and Head, Department of Electrical and Electronic Engineering, Coimbatore Institute of Technology, Coimbatore.



Department of Mathematics of P.K.R Arts College for Women, Organized a Webinar on “**MATHEMATICAL METHODS IN SOFT COMPUTING**” on 28th September 2020 through Google meet. The Resource Person of the day was **Dr.C.Vijayalakshmi**, Associate Professor, Department Of Statistics And Applied Mathematics, Central University Of Tamil Nadu, Thiruvavur.

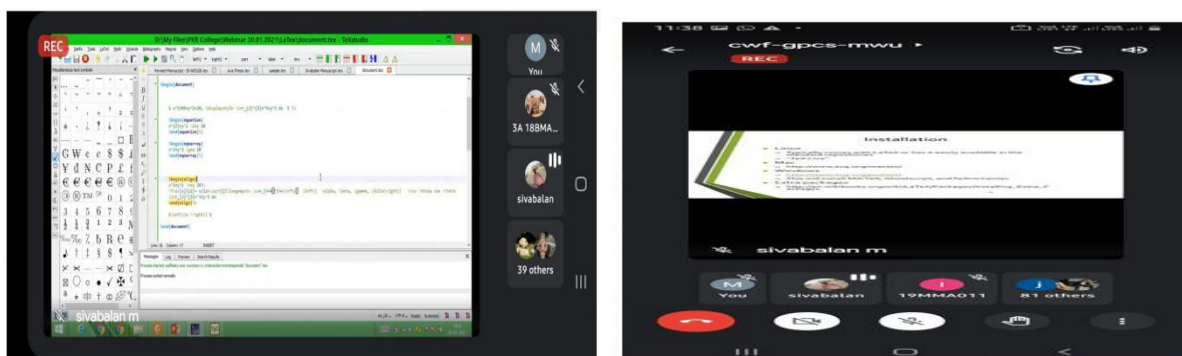


The Department of Mathematics P.K.R Arts College for Women and Sri Ramakrishna Mission Vidhyalaya College of Arts and Science Coimbatore jointly organized a “**FOUR DAYS WEBINAR ON CONVERGENCE AND DIVERGENCE**” on 14th to 17th December, 2020 as a part of “A Collaboration of Knowledge Exchange” between two institutions, Faculty Exchange Programme. The Resource Person was **Dr. M.Sivabalan**, Assistant Professor, Department of Mathematics Sri Ramakrishna Mission Vidhyalaya College of Arts and Science, Coimbatore.

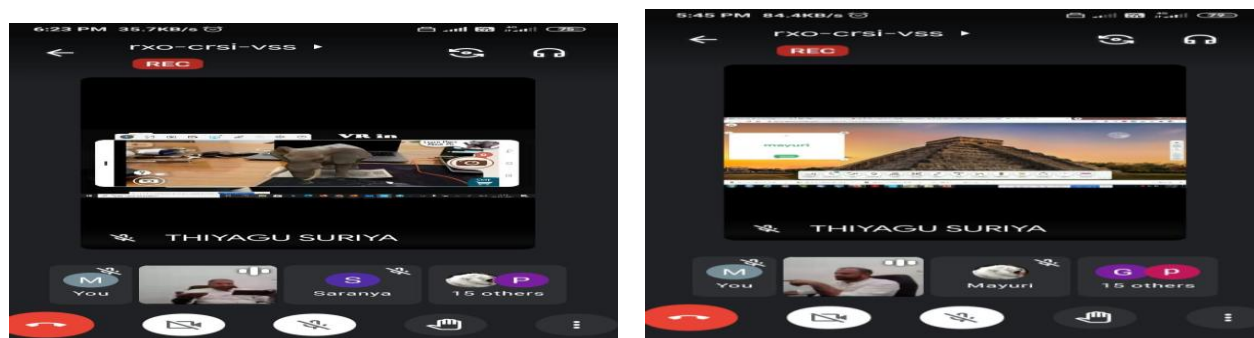


The Department of Mathematics, P.K.R. Arts College for Women celebrates a **“NATIONAL MATHEMATICS DAY”** to recognize and celebrate the works of Srinivasa Ramanujan on 22nd December, 2020. The Department organized an **“Online Quiz”** to commemorate the centenary of the celebrated Indian mathematician.

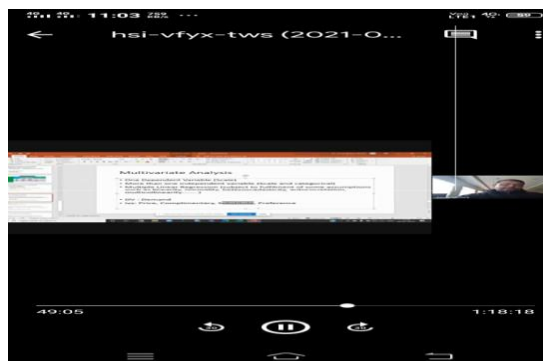
The Department of Mathematics, P.K.R. Arts College for Women and Sri Ramakrishna Mission Vidhyalaya College of Arts and Science Coimbatore jointly organized a **“ONE DAY WORKSHOP ON BASICS OF LATEX – HANDS ON TRAINING”** on 30th January, 2021. The Resource Person of the day was **Dr. M.Sivabalan**, Assistant Professor, Department of Mathematics, Sri Ramakrishna Mission Vidhyalaya College of Arts and Science, Coimbatore.



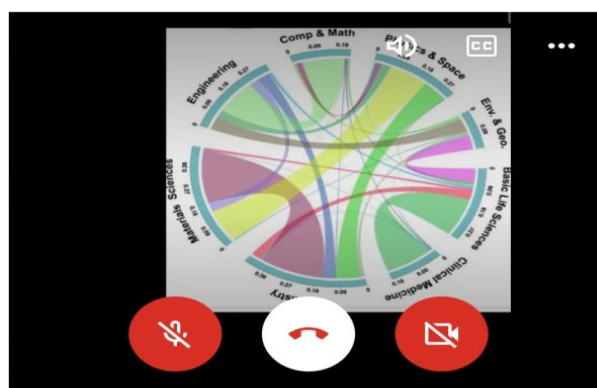
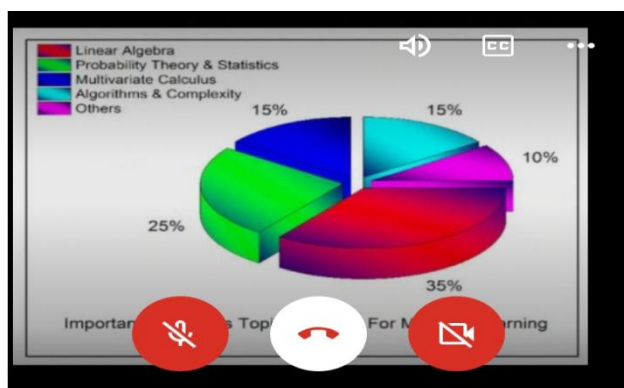
The Department of Mathematics, P.K.R. Arts college for women, Gobi organized a **“PROFESSIONAL DEVELOPMENT PROGRAMME”** on 04th February, 2021. The Resource person for the program was **Dr.K. Thiyagu**, Assistant Professor, Department of Education, Central University of Kerala, Kerala.



Department of Mathematics, P.K.R Arts College for Women, Organized a Guest lecture on “**APPLICATIONS OF STATISTICAL TOOLS IN RESEARCH**” on 05th February, 2020 through Google meet. The Resource Person of the day was **Dr. Amar Kumar Mishra**, Professor, Department of Management Studies, Graphic era Deemed to be University, Dehradun.



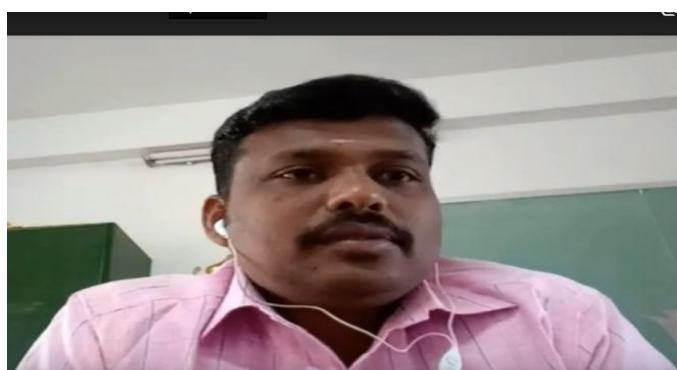
The Department of Mathematics P.K.R Arts College for Women organized a **ONE DAY WORKSHOP ON “APPLICATIONS OF MATHEMATICS IN MECHANICAL ENGINEERING”** on 6th February, 2021. The Resource Person of the day was **Dr. A. S. Krishnan**, Associate Professor, Department of Mechanical Engineering, Coimbatore institute of Technology, Coimbatore.



The Department of Mathematics, P.K.R. Arts college for women, Gobi organized a “**WEBINAR ON CALCULUS OF RESIDUES**” on 11th February, 2021. The Resource person for the seminar was **Dr. M.Balamurugan**, Assistant Professor and Head, Department of Mathematics, K.R.College of Arts and Science, Kovilpatti.

Example
Laurent's series expansion of $f(z) = z^2 e^{1/z}$ about $z = 0$.

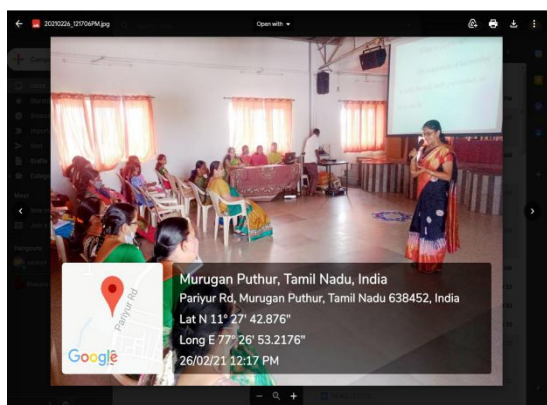
- Clearly $f(z)$ is analytic at all points $z \neq 0$
- Now, $f(z) = z^2 \left[1 + \frac{1}{z} + \frac{1}{2!z^2} + \frac{1}{3!z^3} + \dots \right]$
- $= z^2 + z + \frac{1}{2} + \frac{1}{3!z} + \frac{1}{4!z^2} + \dots$
- This is the required Laurent's series expansion of $z^2 e^{1/z}$ about $z = 0$.



Department of Mathematics of P.K.R Arts College for Women, Organized a “**WEBINAR ON FUZZY MATHEMATICS IN VARIOUS RESEARCH FIELDS**” on 20th February, 2021 through Google meet. The Resource Person of the day was Dr.N.Uma, Professor and Head, Department Mathematics, Sri Ramakrishna College of Arts and Science, Coimbatore.



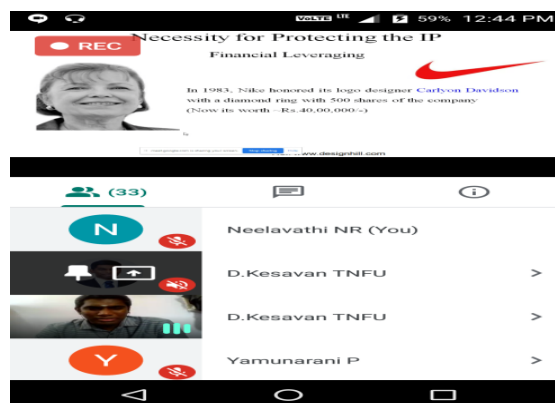
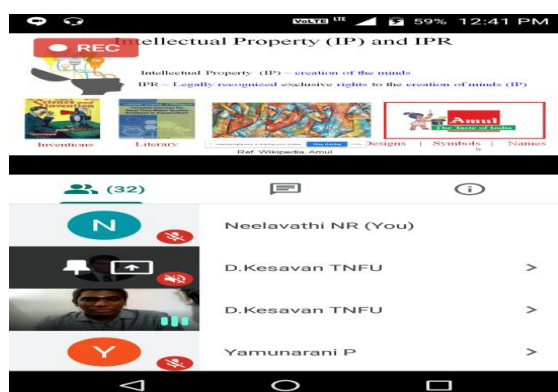
The Department of Mathematics, Department of Computer Science and Department of Physics jointly organized the **NATIONAL SCIENCE DAY ON FUTURE OF SCIENCE, TECHNOLOGY AND INNOVATION : IMPACTS ON EDUCATION, SKILLS AND WORK**” on 26th February, 2021. The chief guest of the day was Dr.S.Kavitha, Associate Professor, Department of Chemistry, Vellalar College for women, Erode.



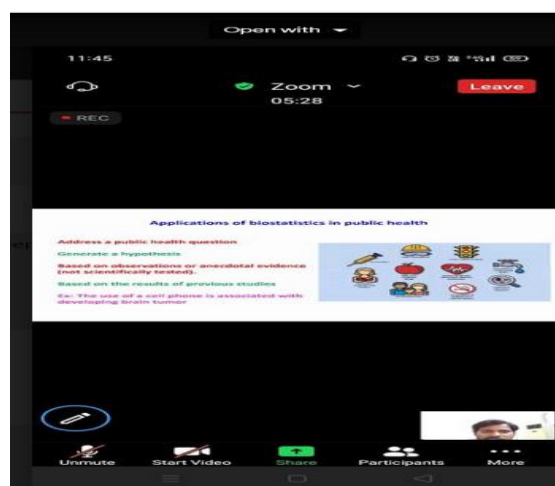
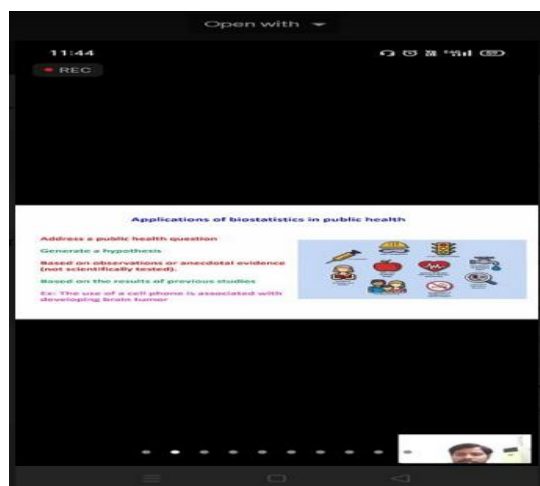
Department of Mathematics organized an “**ONE DAY EXTENSION ACTIVITY ON PREPARATION OF MASALA POWDERS FOR RURAL WOMEN**” on 03rd March, 2021. The programme resource persons of the day were **Ms. M.SIVA**, Scientist (Home Science), KVK-MYRADA and **Ms.VIDHYA**, Master Trainer, Food industry.



The Department of Mathematics, P.K.R. Arts college for women, Gobi organized a **WEBINAR** entitled **“INTELLECTUAL PROPERTY RIGHTS & ENTREPRENEURSHIP”** on 27.03.2021. The Resource person of the webinar was Dr.D.Kesavan, Assistant Professor (Chemistry) & Head, Department of Basic Sciences, College of Fisheries Engineering, Tamil Nadu Dr.J.Jayalalitha Fisheries University, Vettar River View Campus, Nagapattinam.



The Department of Mathematics of P.K.R. Arts College For Women organized **An International Webinar On Biostatistics And Its Applications** on 09.04.2021 in the ZOOM platform. The Resource person of the day was Dr.R.Ramachandran, Postdoctoral fellow, Laboratory of Functional Molecules and Materials School of Physics and Optoelectronic Engineering Shandong University of Technology Zibo Campus Shandong Province, P.R.China.



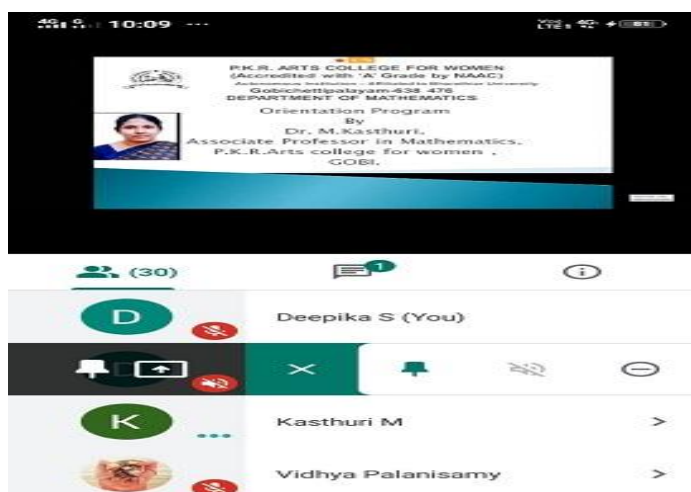
Student Induction Programme

Orientation by Head of the Department

Mrs. R. Jayalakshmi, Head and Associate Professor, Department of Mathematics delivered a talk on the Autonomy, Outcome Based Education, Scheme of Examination, Course Structure, Blooms Taxonomy and Breakup of Marks and also insisted about the importance of Master's degree in Mathematics among the students.



Guidelines to Research and Plagiarism



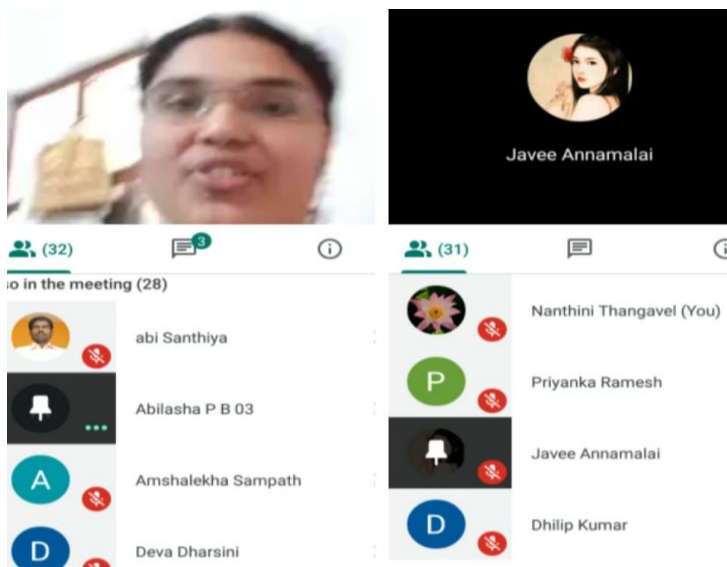
Dr. M. Kasthuri, Associate Professor of Mathematics handled this Session. She quoted that a good researcher must be open-minded and must also adopt a critical way of thinking. Besides, she should be hard working, diligent, focused and devoted to her specific field of interest. Also she motivated the students to do research in their field of interest without taking someone's ideas and passing them off as their own.

Motivational Talk

In this session, a Motivational talk was given to the students on the topic 'Success Begins with the Right Attitude'. Mrs. Meera, Founder, Success Programming, MGN Training & Consultant, Pune was the Guest Speaker for this session. She has articulated on the three-step strategies like understanding your strengths, accept your weakness, figures out ways to improve yourself & take actions. She insisted the students to follow the above 3 strategies to get success in their life with the right attitude.



Inspirational and Motivational Talk By Our Alumni students



Ms.A.Javeena, Associate in Amazon Development Center, Coimbatore and Alumni of P.K.R Arts College for Women, shared her experiences during her stay at college. She explained the activities conducted by our college for the benefits of the first-year students. She delivered a talk on Positive thinking and made the students to change their perception about life. Ms.P.B.Hanudeepa narrated the motivational story of Muniba Hazari and advised the students to have a goal in their life.