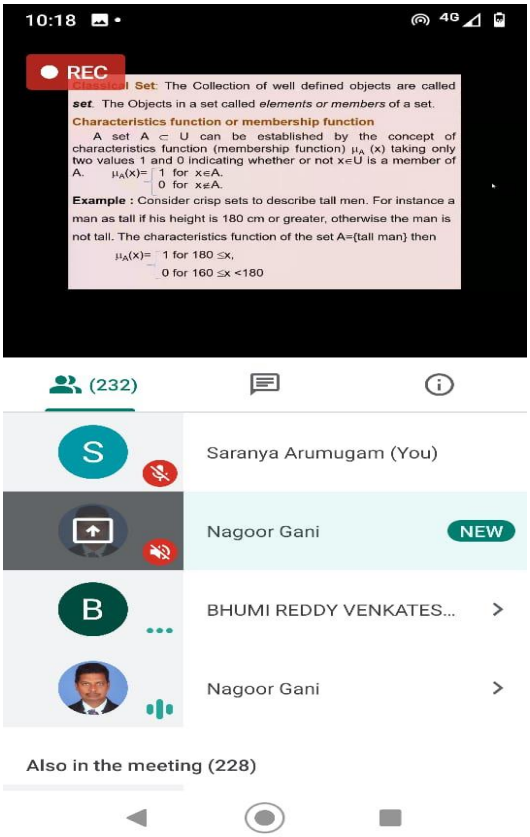
HOLY CROSS COLLEGE (AUTONOMOUS) TIRUCHIRAPPALLI-620002

PG & RESEARCH DEPARTMENT OF MATHEMATICS

MATHEMATICS ASSOCIATION REPORT(2020-2021)

The inaugural meeting was held on 23rd June 2020 for electing the office bearers of the Mathematics Association for the academic year 2020-2021. The first meeting was held on 30th June 2020. **Dr. A. Nagoor Gani,** Associate Professor, PG & Research Department of Mathematics, Jamal Mohamed College (Autonomous), Tiruchirappalli gave a lecture on the topic **"Optimization Models Using Fuzzy Numbers".** Dr. W. Ritha, Head and Assistant Professor, PG and Research Department of Mathematics, Holy Cross College (Autonomous), Trichy, welcomed the resource person and the gathering. The lecture primarily focused on Optimization models and it gave a brief idea about fuzzy production quantity models and fuzzy supply chain model. The participants gained knowledge about fuzzy linear system of equation and fuzzy linear programming problem, algorithm for Motzkin Elimination method with the help of numerical illustrations.



In order to motivate the participants in the field of research, a session was organized by the Mathematics Association on 25th July 2020. **Dr. Anjaly Kishore**, Assistant Professor, Department of Mathematics, Vimala College(Autonomous), Trissur, Kerala, was the resource person. She delivered a lecture on the topic **"Applications of Various Divisions of Mathematics in Graph Theory".** The ideas for research especially on applications of Topology and Linear algebra in Graph theory was discussed in this session. Madam explained about graph embedding in topological spaces along with few restrictions for it; Jordan curve theorem, Jordan Schonflies theorem based on the same.

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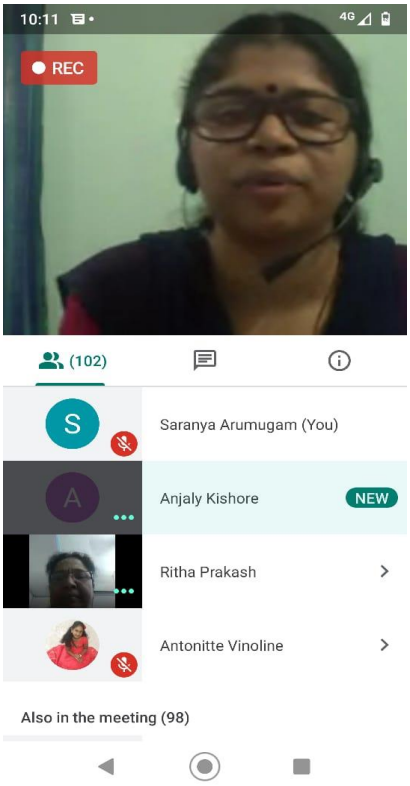
PG AND RESEARCH DEPARTMENT OF MATHEMATICS
State Level Webinar on
Applications of Various divisions of Mathematics in Graph Theory
Resource Person
Dr.Anjaly Kishore,
Assistant Professor,
Department of Mathematics,
Vimala College(Autonomous),
Trissur,Kerala.
Presided by
Rev.Dr.(Sr.)A.Christina Bridget,
Principal,
Holy Cross College(Autonomous),
Tiruchirappalli-620 002.
Join us
Google meet
DATE: 25.07.2020
TIME: 10.00 A.M-11.30 A.M
Convenor
Dr.W.Ritha,
Head and Assistant Professor,
PG and Research Department of Mathematics,
Holy Cross College(Autonomous),
Tiruchirappalli-620 002.
No Registration Fee
&
E-Certificate will be issued
Register Now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Ritha Prakash
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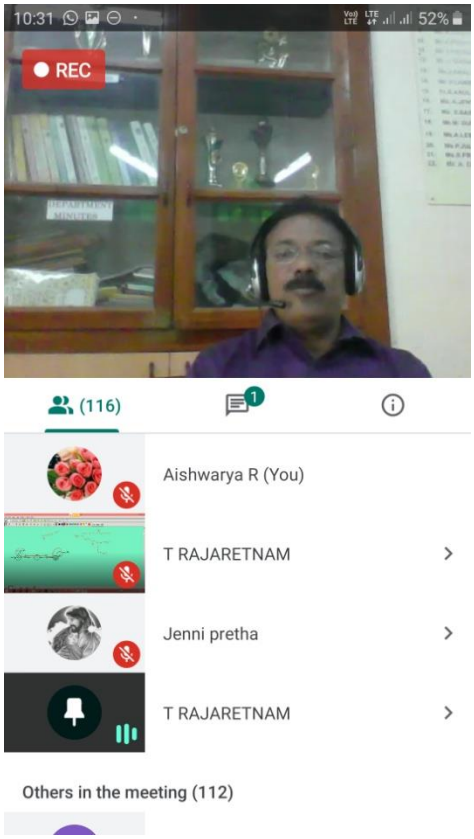
Also in the meeting (98)

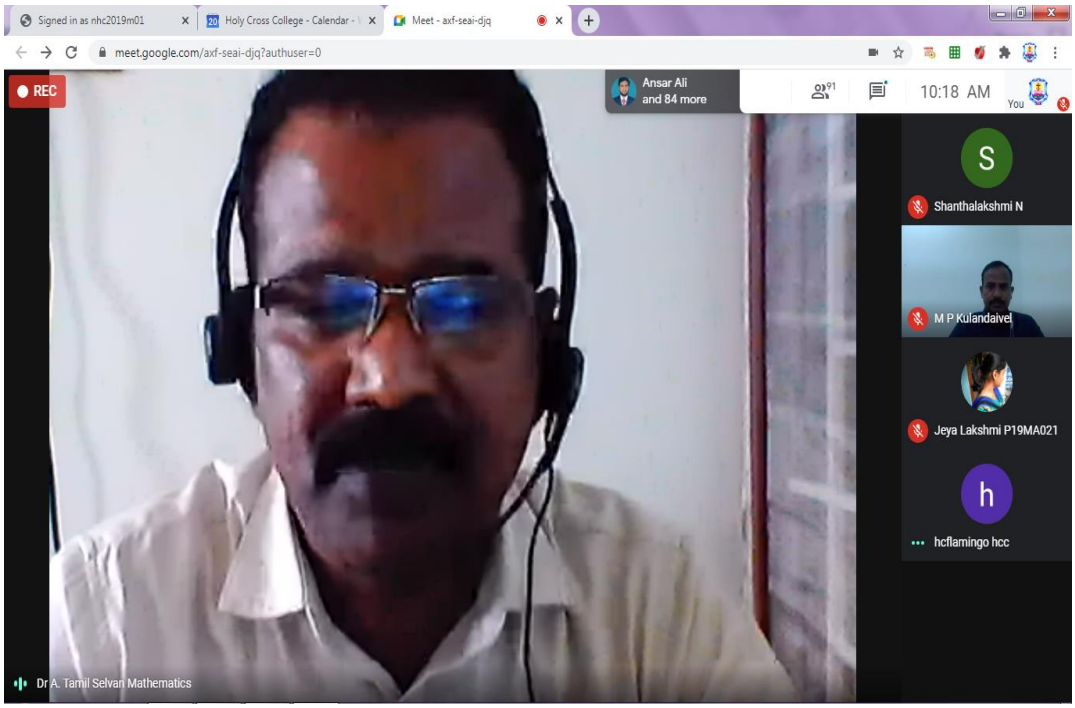
Next meeting was conducted on 1st August 2020, on the topic **"Designing Finite State Automata"**. **Dr.T. Rajaretnam,** Head and Associate Professor, PG & Research Department of Mathematics, St. Joseph's College (Autonomous), Tiruchirappalli, was the resource person. He gave detailed explanation on string catenation, transition diagram and regular expressions. He mainly focused on designing finite automata discussing the classification of automata such as Deterministic Finite State Automation (DFA) and Non-Deterministic Finite State Automation (NFA) with appropriate illustrations.



To equip the students with the knowledge on Mathematics applications in current scenario, two days international seminar was organized on 16th& 17th November 2020 on the topic **"Present Trends in Applications of Mathematics"** with four Technical Sessions. Dr.A. Tamilselvan, Professor and Head, Chair, School of Mathematical Sciences, Bharathidasan University, Trichy, inaugurated the international seminar through mathematical modeling on 16th November 2020. The technical session I was conducted by **Dr. M.P. Kulandaivel**, Professor, Mathematics Section, Department of Information Technology, University of Technology and Applied Sciences - Al Mussanah, Sultanate of Oman. He spoke on the topic **"Advances in the Applications of Differential Equations"** which kept the audience spell bound. **Dr. S. Rajeshwari,** Assistant Professor, Department of Mathematics, Presidency University, Bangalore, handled the Technical Session II on the topic **"Applications of Complex Analysis in Science and Engineering".** The talk delivered by the resource person insisted that

complex numbers find greater applications in the complex field of Physics, Computer science, Electrical and Mechanical area, thereby motivating the audience to contribute substantially in the above areas by the use of complex functions.

On 17th November 2020, the 2nd day of the International seminar, technical Session III was handled **by Dr. Rajendran Swamidurai**, Associate Professor, Department of Mathematics and Computer science, Alabama State University, United States of America, on the topic **"Mathematics for Big Data Analytics".** The resource person elucidated the exponential growth of big data and its vast opportunities and also emphasized the bright future for the mathematicians in the field of big data analytics. Technical Session IV was taken by **Dr. Mary George**, Associate Professor and Head (Rtd), Department of Mathematics, Mar Ivanios College, Trivandrum. She spoke on the topic **"The Profound Applications of Mathematics: From 'Counting' to 'Covid-19' and Beyond"**. This session discussed the applications of mathematics in various fields like satellite navigation, weather prediction, population dynamics, construction, air transportation, traffic optimization, finance and banking, speech recognition, ATM security etc. The lecture mainly focused on applications in medical sciences and the role of the Fuzzy Mathematics in detail in the pandemic situation of COVID-19. After the technical sessions, 32 research papers were presented by the participants after scrutinizing the research papers received from all over India and the papers were also published in UGC-CARE list journal.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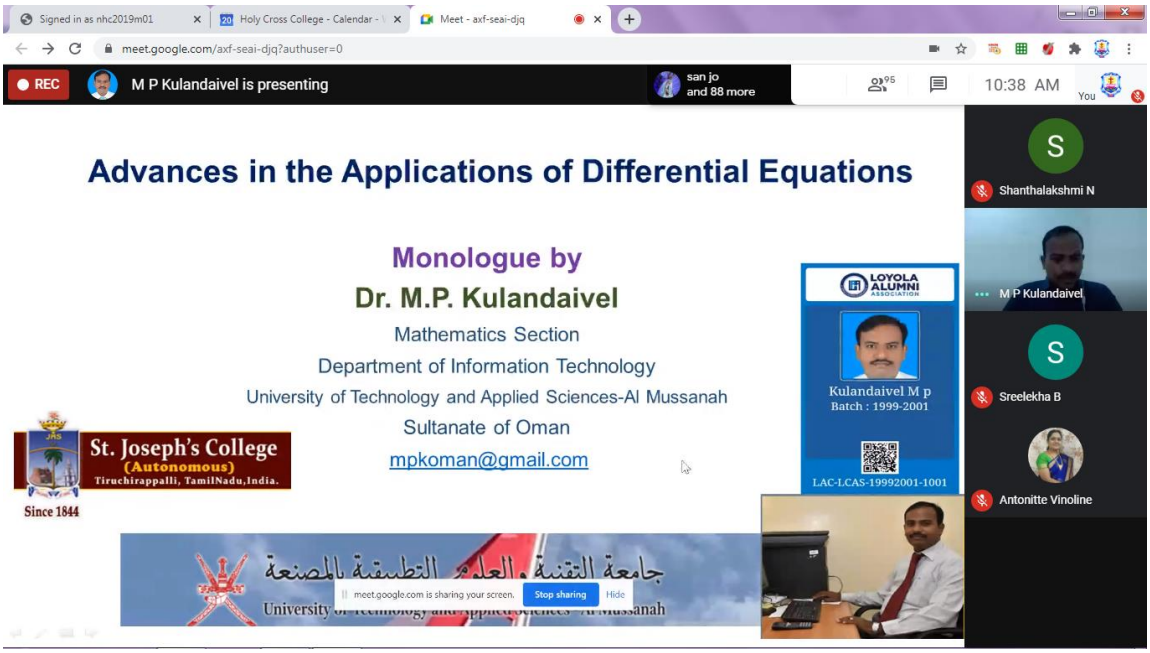
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Dr. M.P. Kulandaivel
Mathematics Section
Department of Information Technology
University of Technology and Applied Sciences-Al Mussanah
Sultanate of Oman
mpkoman@gmail.com
St. Joseph's College
(Autonomous)
Tiruchirappalli, TamilNadu,India.
Since 1844
LOYOLA ALUMNI ASSOCIATION
Kulandaivel M p
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University of Technology and Applied Sciences-Al Mussanah
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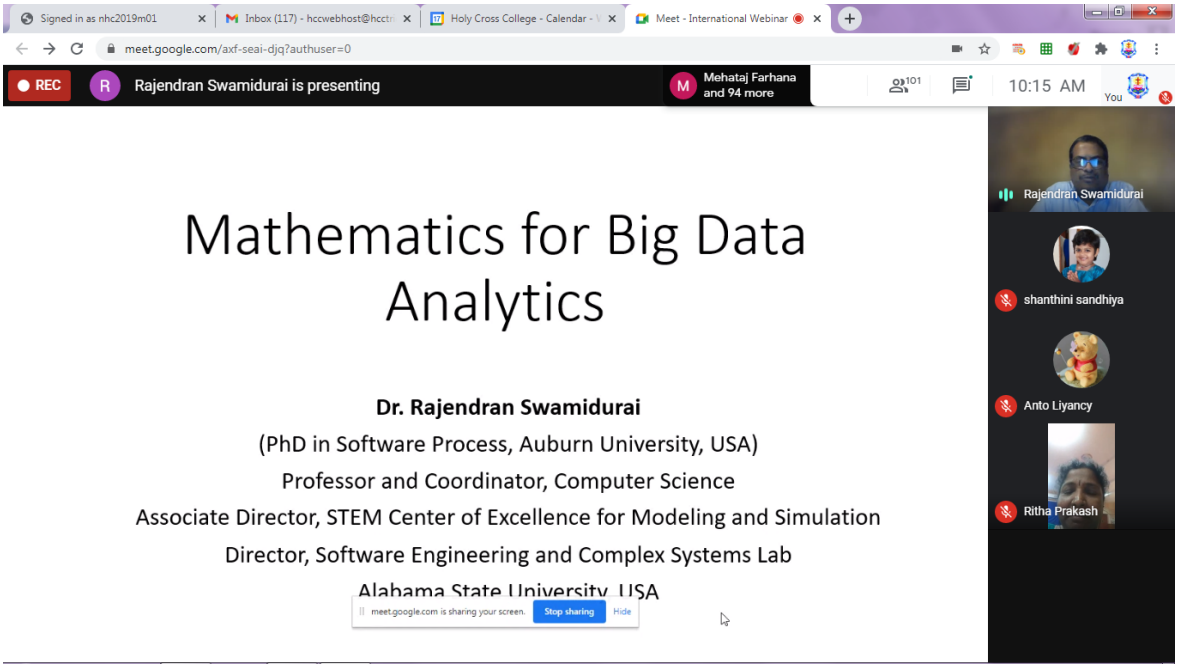
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Mathematics for Big Data Analytics
Dr. Rajendran Swamidurai
(PhD in Software Process, Auburn University, USA)
Professor and Coordinator, Computer Science
Associate Director, STEM Center of Excellence for Modeling and Simulation
Director, Software Engineering and Complex Systems Lab
Alabama State University, USA
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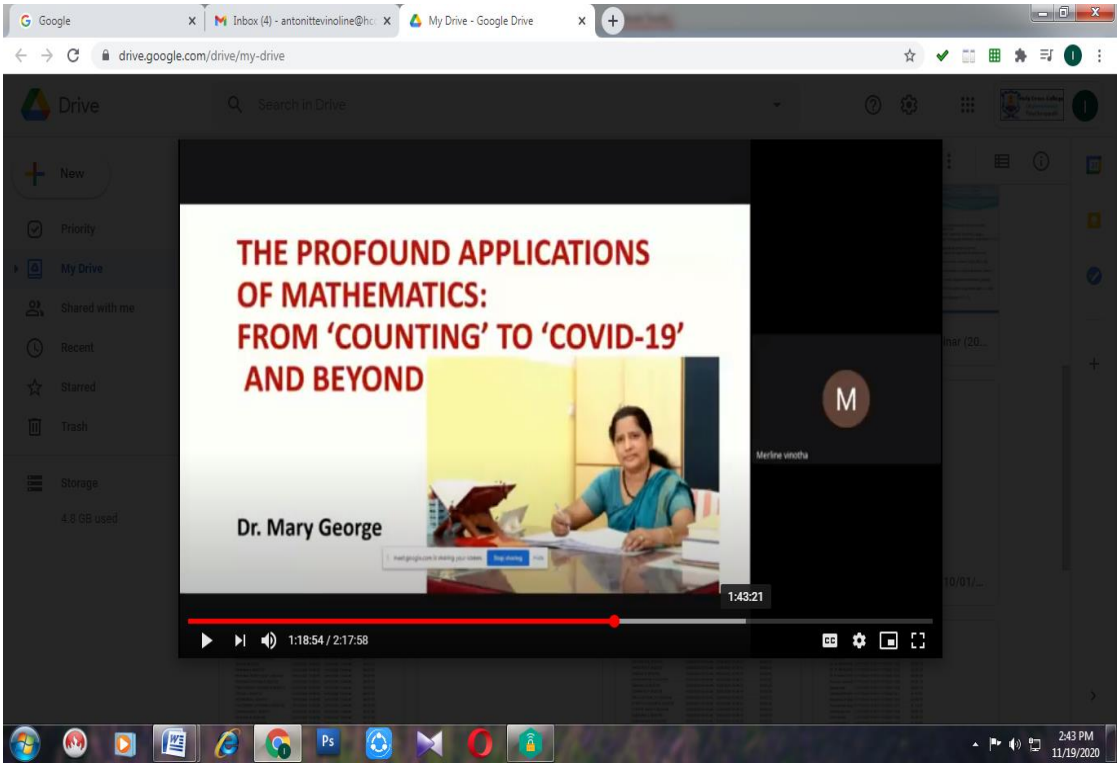
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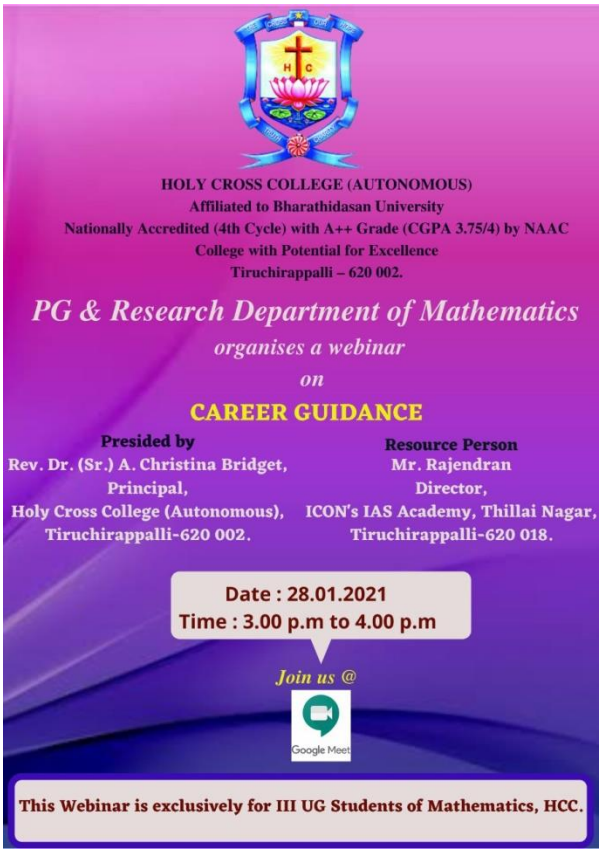
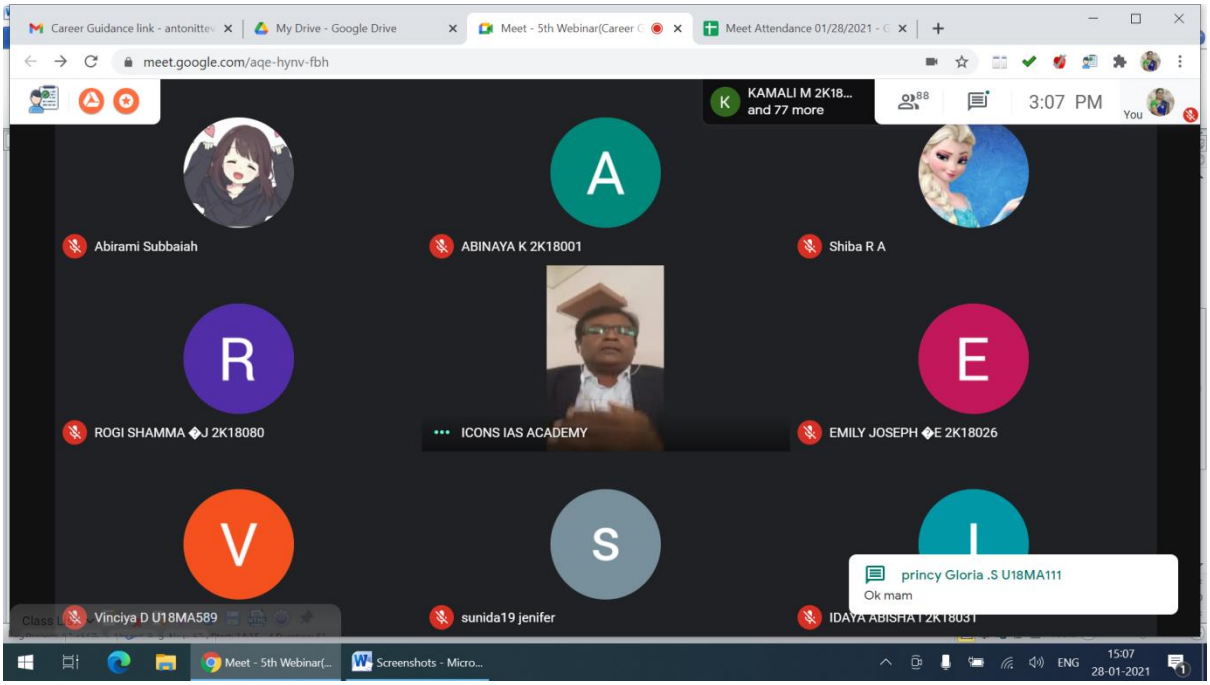
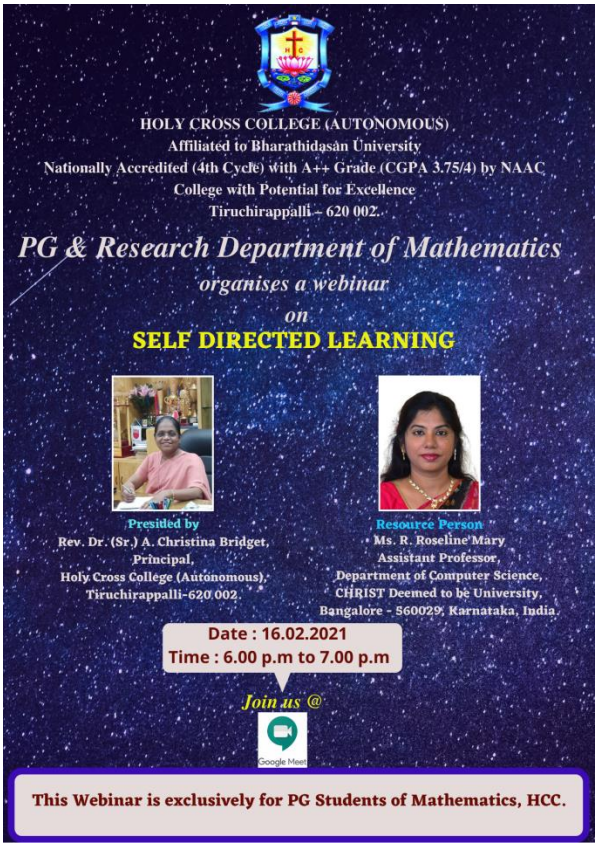
To make the students aware about the job opportunities, a session on **"Career Guidance"** was conducted on 28th January 2021. The Resource person was **Mr.Rajendran,** Director, ICON's IAS academy, Thillai Nagar, Trichy. The lecture detailed about the job opportunities available in Central Government and State Government exclusively for mathematics students. He insisted on the importance of communication skills and resume writing to get a better job.





The next meeting was organized by the Mathematics Association on 16th February, 2021 on the topic **"Self- Directed Learning"**. The resource person was **Ms. R. Roseline Mary,** Assistant Professor, CHRIST Deemed to be University, Bangalore, Karnataka, India. The guest lecture strongly motivated the students that they are capable of self-directed learning and must try to develop the skill of self-directed learning. She also suggested popular online resources for self- directed learning.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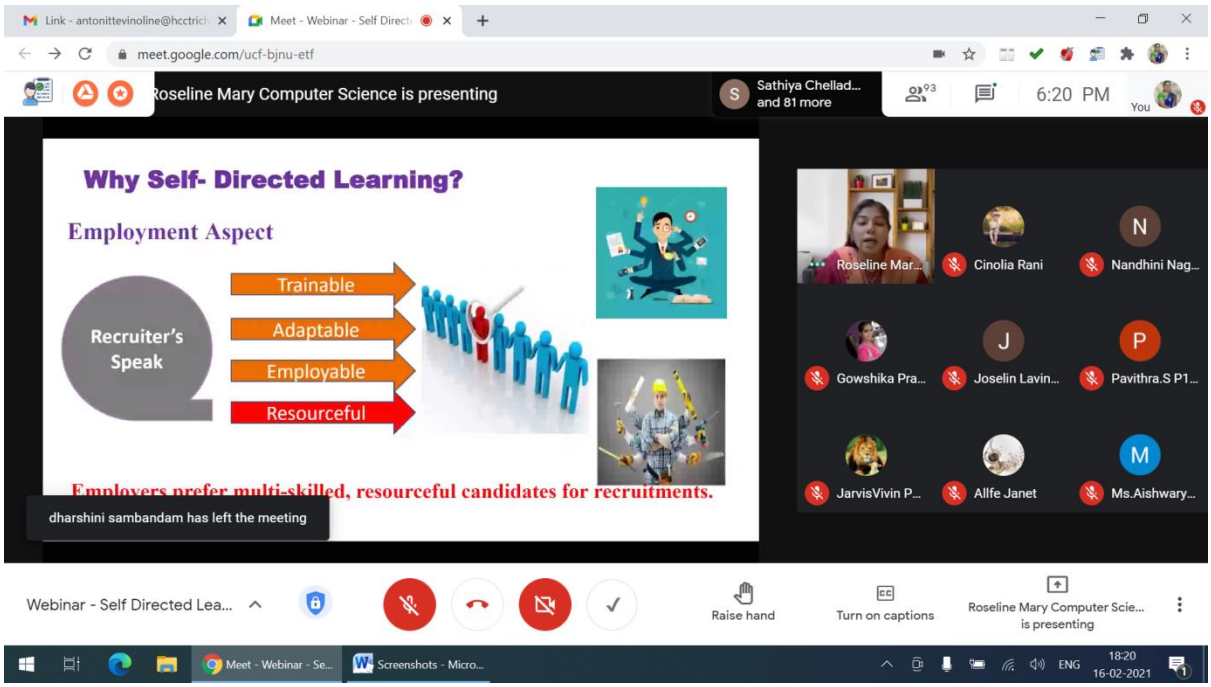
PG & Research Department of Mathematics
organises a webinar
on
SELF DIRECTED LEARNING
Presided by
Rev. Dr. (Sr.) A. Christina Bridget,
Principal,
Holy Cross College (Autonomous),
Tiruchirappalli-620 002.
Resource Person
Ms. R. Roseline Mary
Assistant Professor,
Department of Computer Science,
CHRIST Deemed to be University,
Bangalore - 560029, Karnataka, India.
Date : 16.02.2021
Time : 6.00 p.m to 7.00 p.m
Join us @
Google Meet
This Webinar is exclusively for PG Students of Mathematics, HCC.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Adaptable
Employable
Resourceful
Employers prefer multi-skilled, resourceful candidates for recruitments.
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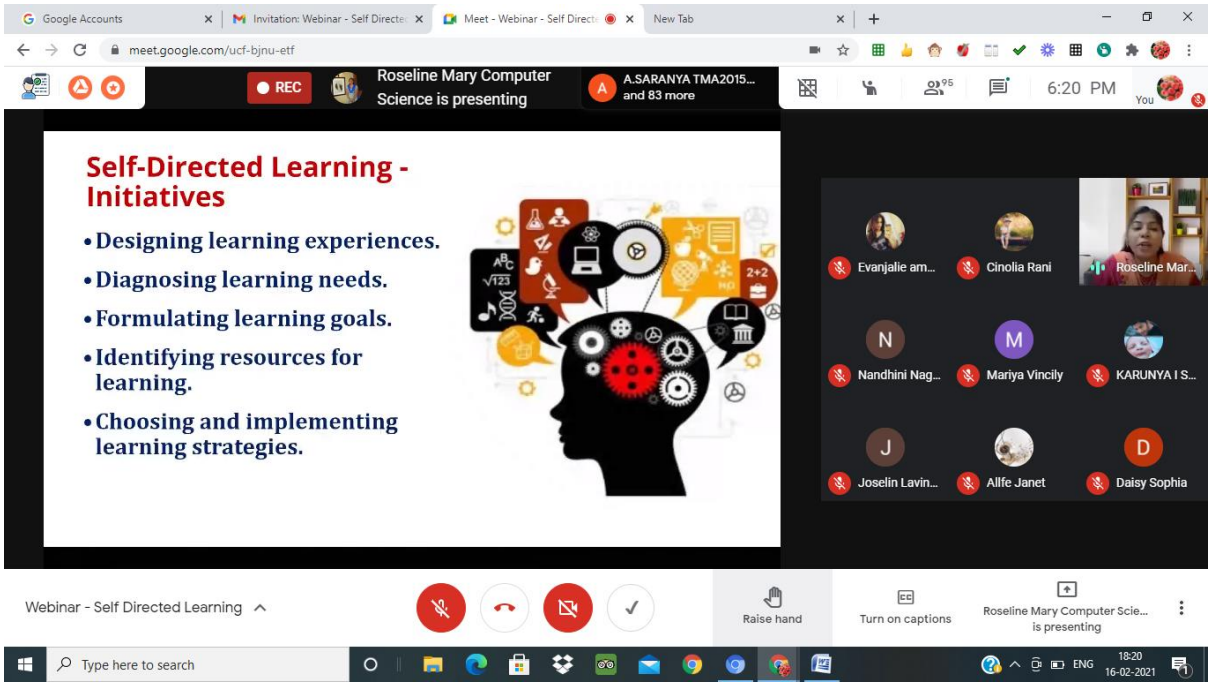
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• Diagnosing learning needs.
• Formulating learning goals.
• Identifying resources for learning.
• Choosing and implementing learning strategies.
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