

ARCSSCAL 2022 (Annual Research Conference of Science, Social science, Commerce, Arts and Literature)

Annual Research Conference of Science, Social Science, Commerce, Arts and Literature (ARCSSCAL) is an International Conference organized by the Research Committee, in association with IQAC, VTMNSS College, Dhanuvachapuram to provide an opportunity to understand different viewpoints and to assimilate new ideas and trends, to acquaint with modern technology, cutting edge equipment and recent developments in the research field. The conference also provides an invaluable opportunity to broaden the spectrum of expertise by mastering new skills in a scholarly environment. This year, five International Conferences on recent research trends in respective disciplines with well-established resource persons were conducted under the banner of ARCSICAL 2022 from 23.03.2022 to 31.03.2022.

1. International Conference on Recent Research Trends in Physics, Chemistry & Mathematics (ICRTPCM) 2022.
2. International Conference on Research Trends in Social Sciences: History, Economics and Political Science (ICRTSS) 2022.
3. International Conference on Recent Research Trends in Biological Sciences (ICRTBS) 2022.
4. International Research Conference on Current Trends in Language and Literature (IRCCTLL) 2022.
5. International Research Conference on Commerce & Management (IRCCM) 2022)

Objectives

The objective of the conference is to provide a platform for the research scholars and faculty members from science, social science, commerce, arts and various literature streams to share and discuss their research contributions among their peers. More than 160 research scholars/faculty members presented their research works in addition to 31 invited talks on various topics of international relevance in diverse academic disciplines and around 1000 delegates participated in ARCSICAL 2022. All the full paper submissions were peer-reviewed by a panel of expert referees and rewritten by incorporating their suggestions after which, they were accepted for publication. These edited papers are compiled and published in two proceedings with ISBN number as part of ARCSICAL 2022.

Brochure – ARCSSCAL 2022

The image is a collage of promotional materials for the ARCSSCAL 2022 International Conference. It features a detailed program schedule on the left, a central banner with a portrait of a religious figure and text about the conference, a VTM NSS College logo on the top right, and a large 'ARCSSCAL-2022' banner at the bottom with a stylized tree logo.

Inaugural session

The ARCSSCAL 2022 was inaugurated virtually by Prof (Dr) K S Anil Kumar, Registrar, University of Kerala on 23.03.2022. The session started at 7.30pm. The Principal Dr. V M Anandakumar presided over the meeting and the coordinator Dr. Bijini B R, Associate Professor, Department of Physics, VTM NSS College, Dhanuvachapuram welcomed the gathering. The IQAC convenor Ms. Shama Pillai and Council Secretary Mr. Sreejith delivered felicitations. The inaugural sessions ended with the vote of thanks by Dr. Sushama S Raj, Assistant Professor, Department of Botany, VTM NSS College.

Platform used: Google Meet.

Meeting link: <https://meet.google.com/kjf-tpux-rji>



VTM NSS COLLEGE

Dhanuachapuram, Thiruvananthapuram
(Accredited by NAAC with CGPA 2.71 at B+ Grade)
www.vtmnsscollege.ac.in



ARCSSCAL-2022

Annual Research Conference of Science, Social Science,
Commerce, Arts and Language

INTERNATIONAL CONFERENCE

2022 March 23 - 31

Organized by Research Committee
In association with IQAC

Platform: Google Meet

Dear Sir/Madam,

VTM NSS College, Dhanuachapuram, one of the foremost educational institutions that offers qualitatively holistic education to its learners (mostly coming from the rural areas) from Southern Kerala is organising its first ever Annual Research Conference of Science, Social Science, Commerce, Arts and Languages (ARCSSCAL) 2022 from 23.03.2022 to 31.03.2022 on recent trends in research in all spheres of Research and learning. The focus of the research Conference is to explore, analyse and conduct academic discourses on the emerging trends in diverse academic disciplines. Eminent resource persons, will enrich various technical sessions. The conference aims to familiarise the faculty members, research scholars and students with new avenues of knowledge and to instigate a scientific outlook and logical thinking in research. Prof. (Dr.) K.S.Anilkumar, Registrar, University of Kerala will officially inaugurate the ARCSICAL 2022 on 23rd March 2022.

On behalf of Research Committee & IQAC, VTM NSS College, Dhanuachapuram cordially solicit your esteemed support and participation to make this event a grand success.

With warm regards,

Dr. Bijini B.R
Coordinator, ARCSICAL 2022

Shama Pillai
Coordinator, IQAC

Dr. Anandakumar V.M.
Principal

Inaugural Session

<https://meet.google.com/kjf-tpux-rji>

23rd March 2022, at 7 p.m.

Prayer,

Acharyanusmaranam

Welcome : Dr Bijini B R (Coordinator, Research Committee & ARCSICAL 2022)

Presidential Address : Dr. Anandakumar V M (Principal)

Inauguration : **Prof. (Dr.) K.S. Anilkumar** (Registrar, University of Kerala)

Felicitation : Sreejith P V (Secretary, College Council)

Shama Pillai (Coordinator, IQAC)

Vote of Thanks : Dr Sushama Raj R V (Convener, ICRTBS 2022)

1. International Conference on Recent Research Trends in Physics, Chemistry & Mathematics (ICRTPCM) 2022

International Conference on Recent Research Trends in Physics, Chemistry & Mathematics (ICRTPCM-2022) was conducted by departments of Physics, Chemistry and Mathematics as part of International Conference: ARCSSCAL 2022 (Annual Research Conference of Science, Social science, Commerce, Arts and Literature), by the Research Committee in association with IQAC, VTMNSS College, to expose Research scholars, faculty members and students to a wide range of science topics, current research, and opportunities to improve their own research and experimental projects. The seminar was conducted in online platform on 24,25and 26 of March 2022. Students, Faculty members and Research Scholars participated and presented papers in the seminar.

Important Dates

Last date of submission of abstract : 18-03-2022
Acceptance of abstract: 21-03-2022
Submission of full paper: 23-03-2022

Abstract and paper should be sent to the e-mail id.
icrtpcm2022@vtmnsscollege.ac.in

Please Click here to register
<https://forms.gle/WMMkAjJ8RXXihQcic6>

Correspondence

Dr. Deepa V

Co-ordinator, Department of Physics
Contact No. 9495392837

Dr. Suprabha .S

Co-ordinator, Department of Chemistry
Contact No. 9446615992

Deepa .D

Co-ordinator, Department of Mathematics
Contact No. 8547383588

About College

The Nair Service Society established **VTM NSS College** in 1964 in commemoration of the great freedom fighter Thalakkalathu Velu Thampi Dalawa on the occasion of his 200th birth anniversary. The college is affiliated to the University of Kerala and accredited with B⁺ Grade (CGPA 2.71) by NAAC. The college offers 11 UG & 4 PG Programmes. Our research committee aims to inculcate research aptitude among the faculty, research scholars and students. It encourages research interest among faculty and the exchange of information regarding various aspects of recent trends in research. Research committee always tries to update the recent trends in Science & Technology.

Organizing Committee

Dr. V.M. Anandakumar (Principal)
Ms. Shama Pillai (Co-ordinator, IQAC)
Dr. Bijini B.R. (Co-ordinator, Research Committee & Head, Department of Physics)
Ms. Sreeja T.G (Head, Department of Chemistry)
Dr. Suprabha S. (Co-ordinator, ICRTPCM)
Ms. Deepa .D (Head, Department of Mathematics)
Dr. Praveen.VN
Dr. Deepa.V
Mr. Satheesh. R
Dr. Nitha L.P
Ms. Manju M.J

Paper Submission Guidelines

- ❖ Papers are invited on sustainable futuristic areas in multi disciplinary fields of Chemistry, Physics & Mathematics.
- ❖ Papers shall be typed only in MS Word format, Times New Roman, font size 12 and line spacing 1.5 with 1 inch margin on all sides.
- ❖ Paper should not exceed 2500 words (including abstract) and five pages in A4 size paper (including figures, tables & references).
- ❖ The beginning of the paper should contain the following information at the top –Title of the paper, Authors name, Name and address of the Institution, email id and contact no.
- ❖ References should be in APA Format.
- ❖ Authors have to abide by UGC Prevention of plagiarism norms with the maximum acceptable level of similarity upto 10%.
- ❖ The author shall give a letter of undertaking regarding the originality of the paper written.
- ❖ Abstract and full length paper shall be sent to the specified e-mail id.

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ARCSSCAL-2022

(Annual Research Conference of Science,
Social Science, Commerce Arts and Language)



Call for Papers



International Conference on Recent Research Trends in Physics, Chemistry & Mathematics (ICRTPCM-2022)

2022 March 24, 25, 26
Platform : Google Meet

Organized by

Departments of
Physics, Chemistry & Mathematics
in Association with IQAC
(Internal Quality Assurance Cell)

Invited Speakers



Dr. Ajay Mohan Raveendran
Senior Scientist, Center for Prototype
Climate Modeling, NYU, Abu Dhabi
PO.Box 129188, UAE



Dr. Assa Aravind. S
Adjunct Professor, Nano & Molecular System
Research Unit, University of OULU, Finland



Renjith Raman Pillai MS.McE
Research scholar,
Dept. of Material Science & Engineering
University of Alabama, Birmingham, US



Gayathri Sankar
Research scholar,
Yusuf Hamied Department of
Chemistry, University of Cambridge.



Dr. M Kamal Kumar
Professor, Department of Information
Technology- Mathematics,
University of Technology and Applied Sciences,
Muscat, Sultanate of Oman.



Dr. Azeef Muhammed P. A
Postdoctoral Research Fellow
Centre for Research in Mathematics and Data
Science, Western Sydney University, Australia

Thrust Areas

Nano Science & Technology
Biomaterials & Biotechnology
Crystal growth & application
Materials for Nonlinear/Opto Electronics/Photonics
Energy Storage application
Luminescent materials
Meta Materials
Pigment Materials
Space & Atmospheric Sciences
Environmental pollution
Bioactive Molecules and Drug discovery
Thermodynamics and Computational Research
Co-ordination Chemistry
Soil Chemistry
Renewable Energy
Green and sustainable Chemistry
Applied Mathematics
Algebra
Discrete Mathematics and Graph theory
Topology
Data Analysis
Differential Equations
Non linear Dynamics

Peer reviewed full papers presented
at the conference will be published
in conference proceedings with
ISBN Number

Programme Schedule		CHEMISTRY		MATHEMATICS	
International Conference on Recent Research Trends in Physics, Chemistry & Mathematics ICRTPCM 2022 Google Meet Link: https://meet.google.com/wec-jhyg-vkh					
PHYSICS					
Day 1: 24/03/2022 Invited Talk 1: 10.00 am - 11.00 am "How Climate Models got so accurate that they earned a Nobel Prize" Welcome : Satheesh R (Department of Physics, VTM NSS College) Resource Person : Dr Ajay Mohan Raveendran Senior Scientist, Center for Prototype Climate Modeling, NYU, Abu Dhabi Vote of Thanks : Dr Deepa V (Department of Physics, VTM NSS College) 1.30 pm : Oral Presentations Chair : Dr V N Praveen (Department of Physics, VTM NSS College)		Day 1: 24/03/2022 Invited Talk 3: 11.30 am - 12.30 pm "Energy Landscape Study on RNA molecules" Welcome : Manju M J (Department of Chemistry, VTM NSS College) Resource Person : Gayathri Sankar Yusuf Hamied Department of Chemistry University of Cambridge Vote of Thanks : Dr. Lekshmi C S Nair (Department of Chemistry, VTM NSS College)		Day 1: 25/03/2022 Invited Talk 5: 10.30 am - 11.30 am "Domination Energy in Graphs" Welcome : Deepa D (Department of Mathematics, VTM NSS College) Resource Person : Dr. M. Kamal Kumar Professor, Department of Information Technology- Mathematics, University of Technology and Applied Sciences, Muscat, Sultanate of Oman Vote of Thanks : Afila AS (Department of Mathematics, VTM NSS College)	
Day 2: 26/03/2022 Invited Talk 2: 3.30 pm - 4.30 pm "Density Functional Theory in Material Research" Welcome : Dr. V.N. Praveen (Department of Physics, VTM NSS College) Resource Person : Dr Assa Aravindh Nano & Molecular System Research Unit, University of Oulu, Finland Vote of Thanks : Adarsha JM (Department of Physics, VTM NSS College) 9.00 am : Oral Presentations Chair : Dr Deepa V (Department of Physics, VTM NSS College)		Day 2: 25/03/2022 Invited Talk 4: 11.00 am - 12.00 pm "Plasma surface engineering and natural fibres for potential applications" Welcome : Ms Sreeja TG (Department of Chemistry, VTM NSS College) Resource Person : Renjith Raman Pillai MS.ME. Department of Material Science & Engineering, University of Alabama, Birmingham, US Vote of Thanks : Dr Suprabha S (Department of Chemistry, VTM NSS College) 1.30pm : Oral Presentations Chair : Ms Manju M J (Department of Chemistry, VTM NSS College)		Day 2: 26/03/2022 Invited Talk 6: 11.30 am - 12.30 pm "Structure of regular semigroups" Welcome : Keerthi Chandran C (Department of Mathematics, VTM NSS College) Resource Person : Dr Azeef Muhammad P A Center for Research in Mathematics and Data Science, Western Sydney University, Australia Vote of Thanks : Arya Ashok (Department of Mathematics, VTM NSS College) 1.30pm : Oral Presentations Chair : Deepa D (Department of Mathematics, VTM NSS College)	

PHYSICS

There were two international invited talks and 25 paper presentations in Physics session. The first technical session was held on 24.03.22 and the second on 26.03.22. Out of 26, eighteen papers were presented on 25.03.22 and remaining eight on 26.08.22.

The first technical session was handled by Dr Ajay Mohan Ravendran, Senior scientist, The centre for prototype, Climate modelling NYU Abu Dhabi on day 1 (24.03.2022) on the topic "How climate models got so accurate that they earned a Nobel prize". The session was chaired by Mr. V N Praveen, Assistant Professor, Department of Physics, VTM NSS College, Dhanuvachapuram.

The second session was handled by Dr Assa Aravind S, Adjunct Professor, Nano & Molecular System, Research unit, University of OULU, Finland, on 26.03.2022 on the topic "Density functional theory in Material Research". The session was chaired by Dr. Deepa V, Assistant Professor, department of Physics, VTM NSS College, Dhanuvachapuram.

The paper presentations were evaluated by a panel of three adjudicators; Dr. K Rajendra Babu, Emeritus Scientist, Mahatma Gandhi College, Thiruvananthapuram, Dr. Jayasudha S, Assistant Professor, Department of Physics, HHMSPB NSS College, Neeramankara, Thiruvananthapuram & Dr.

Meenu S, Assistant Professor, Department of Physics, HHMSPB NSS College, Neeramankara, Thiruvananthapuram.

Presentations: Physics

Day 1: 24.03.22

Chair: Dr. V N Praveen, Assistant Professor, Department of Physics, Dhanuvachapuram.

1. NijuThankachan T, Assistant Professor, Department of Radiotherapy, Government Medical College, Thrissur.

Comparative study of point dose measurements of dual energy X-ray photons in the peripheral region to evaluate the effect of angular dependence of radiation beam with five field IMRT, single full arc VMAT and 3D box field technique in carcinoma cervix.

2. Bindu R G, Department of Physics, NSS College, Nilamel, Kollam, Kerala, India.

Molecular Interaction Studies in Binary Mixtures of Nitriles with Methanol using a Concentration Dependent Acoustic Relation

3. C.L.Shiny, Department of Physics and Research Centre, Malankara Catholic College, Mariagiri-629153

Investigation on Molecular Structure, ESP and FMO analysis of Lithium Fumarate.

4. Nimmy. A. V, Department of Physics, Mahatma Gandhi College, Thiruvananthapuram, Kerala, 695004

A study on temperature dependant phase transition in nanostructured TiO₂

5. Keerthi B S, Dept. of Optoelectronics, University of Kerala

Photocatalytic activity of Sm_{1.9}Gd_{0.1}Zr₂O₇Nanoceramic

6. Pravitha S

Enhanced electrochemical and photocatalytic activity of ZnO-NiO nanocomposite synthesized through modified combustion method.

7. Sariga C Lal, Dept. of Physics, University of Kerala

Probing the Photoluminescence in a Tellurate Based Double Perovskite for Broadband NIR Applications.

8. M. S. Anju, Department of Physics, Mahatma Gandhi College, Thiruvananthapuram, Kerala, 695004

Photoluminescence characteristics of ZnGa₂O₄:0.1 Eu³⁺ phosphor.

9. K. S. Mary Linsa, Research and Postgraduate Department of Physics, Government College, Kottayam, Kerala

Trends in use of Polyaniline as conducting polymer for tuning properties of nanotubes: A review based on citation network analysis

10. D.G. Arya, Department of Physics, Mahatma Gandhi College, Thiruvananthapuram, Kerala, 695004

Growth, characterization and dielectric study of Zinc complex of 2, 4, 6-Trioxypyrimidine.

11. AthiraRajan

A Simulation-Based Approach for Enhanced Electromagnetic Interference Shielding in Magnetic-Conducting Composites.

12. P. Aji Udhaya, Department of Physics, Holy Cross College, Nagercoil, Affiliated to Manonmaniam Sundaranar University, Abishekapatti, Tirunelveli-627012, India

Mechanistic Studies of Photo Catalytic behavior of Copper Ferrite nano particles.

13. S. Monica, PG Department of Physics, St Joseph's College for Women, Alappuzha, Kerala- 688001, India

Assessment of age-dependent Uranium intake due to drinking water consumption.

14. Femi Frederic N.F, Department of Physics & Research Centre, Nesamony Memorial Christian College, Marthandam. 629165, TamilNadu, India

Theoretical studies of molecular structure and vibrational spectra of N,N- Dimethyl Cyanurotriamine.

15. Vidhya Lalan

MayeniteElectride with Graphene Interfaces for Electromagnetic Interference Shielding and High-frequency Microwave Absorption.

16. M.Jinipramila, NMCC, Manonmaniam Sundaranar University, Abishakapatti, Tirunelveli- 627012, Tamilnadu, India

NLO, Natural Charge, C-H...O/N-H...O hydrogen bonding, aim and fukui analysis of n-2(hydroxy phenyl) acetamide.

17. Kiran K, Department of Physics, Mahatma Gandhi College, Thiruvananthapuram, Kerala, 695004

Estimation of percentage noise in data using recurrence plot.

Day 2: 25.03.22

Chair: Dr. Deepa V, Assistant Professor, Department of Physics, Dhanuvachapuram.

18. P.Maheswari, Sri Sai Ram Engineering College

Synthesis and Biological Applications of TiO₂ Nanoparticles.

19. Sreekala G, St Joseph's College for Women, Alappuzha, Kerala- 688001

Effect of higher order correction in the propagation of ion acoustic solitary wave in a permeating plasma.

20. B Vasanthi, Department of Physics, Mahatma Gandhi College, Thiruvananthapuram, Kerala, 695004

Structural and optical properties Eu^{3+} doped of BaLaGaO_4 ceramic phosphor.

21. Vindhya P S, Department of Physics, Mahatma Gandhi College, Thiruvananthapuram, Kerala, 695004

Investigation of Structural, Optical and Dielectric properties of Green Synthesized Tin Oxide Nanoparticles.

22. Adlin D Steffy, Department of Physics & Research Center, Nesamony Memorial Christian College

Quantum chemical investigation and topological analysis of 4-aminobenzene sulfonic acid.

23. S. Sangeetha Priya, Department of Physics and Research Centre, Scott Christian College (Autonomous), Nagercoil - 629 003, Tamil Nadu.

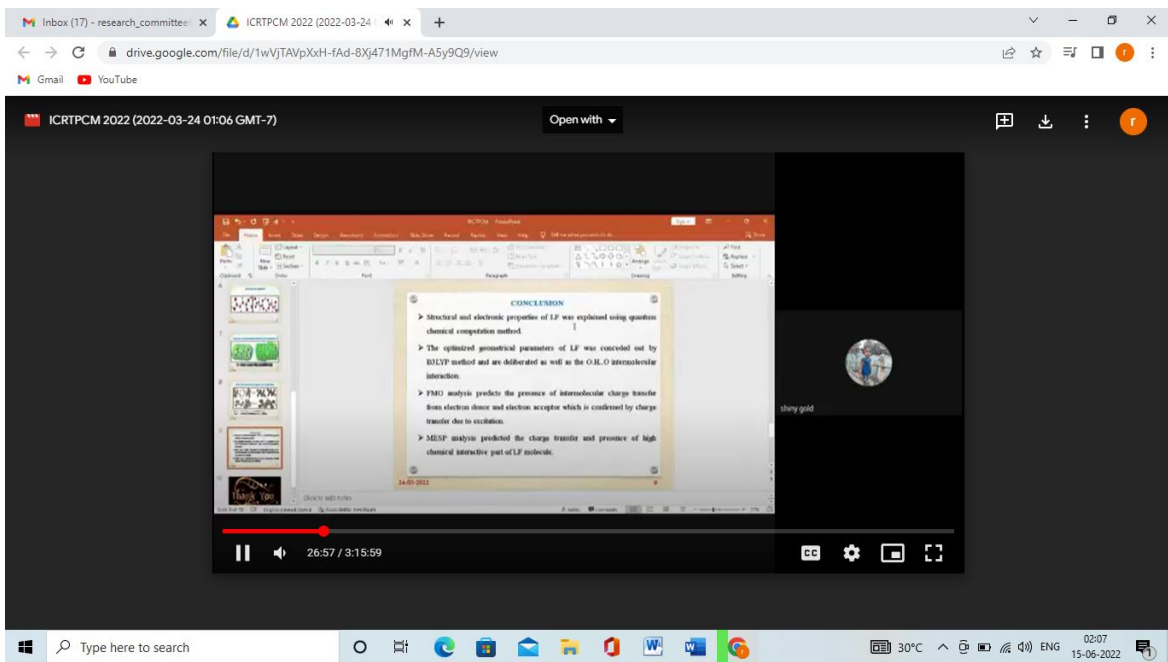
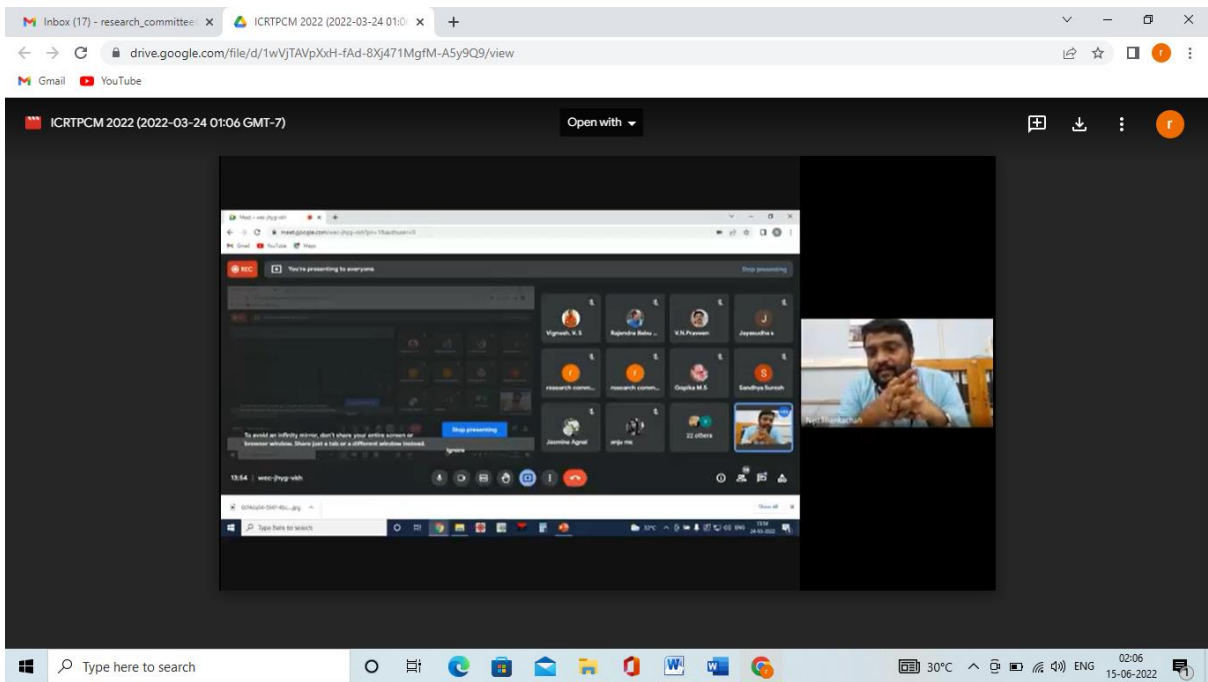
Structural and optical analysis of auto-combusted $\text{La}(\text{OH})_3$ nano crystalline powders.

24. J. Abimalar, Department of Physics and Research Centre, Scott Christian College (Autonomous), Nagercoil - 629 003, Tamil Nadu.

Structural and morphological characterization of perovskite BaZrO_3 nanoparticles via sol-gel auto-combustion method.

25. Chithra S, Department of Physics, University of Kerala, Kariavattom, Thiruvananthapuram, Kerala, India, 695581

Studies on the nanostructured WO_3 as a photocatalyst.



The screenshot shows a Google Drive video player displaying a presentation slide. The slide is titled "Broadband electromagnetic properties" and contains six subplots (a-f) showing various electromagnetic parameters versus frequency (Hz) for different materials. The video player interface includes a play button, volume, and progress bar. The video player is titled "ICRTPCM 2022 (2022-03-24 01:06 GMT-7)". The video player is playing a video titled "Broadband electromagnetic properties" by "Akhya Rajan".

CHEMISTRY

There were two international invited talks in the seminar and about 21 papers were presented by the delegates in different areas in the seminar on 24th and 25th march. The technical sessions were handled by two experts in different areas namely Gayathri Sankar, Yusuf Hamied Department of Chemistry, University of Cambridge and Mr Renjith Rajan Pillai, Department of Material Science & Engineering, University of Alabama, Birmingham, US.

On Day 1(24.03.22) at 10.30am Gayathri Sankar handled the topic “Energy Landscape study on RNA molecule”. The session was chaired by Ms, Sreeja T G, Assistant Professor and head, Department of Chemistry, VTM NSS College, Dhanuvachapuram.

On Day 2 (25.03.22) Renjith Rajan Pillai handled the topic “Plasma surface engineering and natural fibres for potential applications”. The session was chaired by Dr. Nitha L P, Assistant Professor, Department of Chemistry, VTM NSS College, Dhanuvachapuram.

Thirteen papers were presented in the conference and published in the proceedings with ISBN number. Two of the presenters were honoured with best paper presentation awards at the valedictory session. The presentations were held on 25.03.22 from 12pm. There were thirteen presentations and they were evaluated by Dr. AjayaKumar G, Assistant Professor, Govt. Women’s college, Thiruvananthapuram and Dr. Bindu P Nair, Assistant Professor, Mahatma Gandhi College, Thiruvananthapuram.

Presentations: Chemistry

Chair: Dr. Nitha L P, Assistant Professor, Department of Chemistry, Dhanuvachapuram.

1. Akhilash M,
Energy Systems Development Division, Energy Systems Group, PCM Entity, Vikram Sarabhai Space Centre, Thiruvananthapuram, India-695022
A Cobalt free lithium rich layered cathode material for lithium ion cells.
2. S.Sibmah, Research Scholar, Department of Chemistry & Research Centre,
Nesamony Memorial Christian College, Marthandam-629165, Tamilnadu, India.
Impacts of operational parameters on photocatalytic degradation of quinalphos using nano structured ZnO/MgO photocatalyst.
3. J. JebaLenet, Department of Chemistry & Research Centre, Nesamony Memorial Christian College, Marthandam, Tamilnadu, India
Synthesis, characterization and dft calculations of 2-[2-(4-alkylamino)-4-phenylaminothiazol-5-oyl]naphthalenes.
4. R. Anisha, Department of Chemistry, Nesamony Memorial Christian College, Marthandam, Tamilnadu, India.
Photocatalytic activity of La doped TiO₂ photocatalyst synthesized by sol-gel method under visible light.
5. B.V.Deepthi, Department of Chemistry and Research Centre, Nesamony Memorial Christian College , Marthandam, Tamilnadu,,India.
The potential of antimicrobial studies of an Alkyldimethylbenzylammoniumchloride against the Pandemic Situation.
6. Kavitha. K.R, Post Graduate Department of Botany, Sree Narayana College, Chempazhanthy, University of Kerala,Thiruvananthapuram, Kerala, India,
Tensile Properties of Electron Beam Irradiated Corypha Leaves treated with Methyl methacrylate.
7. Sritha V, Centre for Electrochemical Studies, Department of Chemistry, St. Thomas' College (Autonomous),Thrissur, (University of Calicut), Kerala-680001, India.

Insilico molecular docking studies of novel polynuclear derivatives of Schiff bases against human epidermal growth factor receptor and covid 19.
8. Anashafer R.L, Department of Chemistry & Research Centre, Nesamony Memorial Christian College, Marthandam, Tamilnadu, India

- Study on Molecular Structure Vibrational assignments, of HOMO-LUMO Analysis and DFT calculations of (1-benzyl)-2(2-methylaminothiazol-4-yl)benzimidazole.
9. R. Jeeffin Blessikha, Department of Chemistry & Research Centre, Nesamony Memorial Christian College, Marthandam, Tamilnadu – 629165, India.
Green amalgamation of copper nanoparticles using avarrhoa carambola leaf juice and their antimicrobial activity.
 10. Lakshmi C S Nair, Department of Chemistry, VTM NSS College, Dhanuvachapuram 695 503, Kerala, India
Theoretical study on the non-linear optical property of p-N,N- dimethylamino chalcone derivative with nitro substitution.
 11. Resmi Raghunandhan, Assistant professor, Department of Chemistry, NSS College, Nilamel, Kerala, India
Green Synthesis, Characterization and Biological Studies of Mn doped ZnO Nanoparticles.
 12. Harisankar A, PG Department of Chemistry and Research Centre, Mahatma Gandhi College, University of Kerala, Thiruvananthapuram 695004, Kerala, India
Sensitive Cu²⁺ detection by “Turn off” Fluorescence using ZnO@MOF-5.
 13. Sreedevi LK, UG Department of Chemistry, VTMNSS College, Dhanuvachapuram
Analysis of soil samples for its physico-chemical parameters from Perumkadavila block, Thiruvananthapuram, Kerala, India.
 14. J. Jenisha, Department of Chemistry & Research Centre, Nesamony Memorial Christian College, Marthandam, Tamilnadu-629165, India
Synthesis and Computational Analysis of 5-aryl-3-(naph-2-yl)isoxazole
 15. Preethi. P. C, Post Graduate Department of Chemistry and Research Centre, Mahatma Gandhi College, University of Kerala, Thiruvananthapuram 695004, Kerala, India
Synthesis, structural studies and sensing applications of diglycolic acid functionalized strontium metal
 16. Jisha George,
Department of chemistry, University College, Trivandrum, Kerala, India.
An investigation of different aspects of single source molecular precursor method for nanosynthesis.
 17. Manju M J, Department of Chemistry, VeluThampi Memorial Nair Service Society College, Dhanuvachapuram, University of Kerala, Thiruvananthapuram 695503, Kerala, India.

A brief review on antimicrobial activity and anticancer activity of chalcones.

18. R Aswathy, Division of Basic Science & Humanities,TKMIT Ezhukone Kollam Dist.Kerala, India.

Preparation of PVDF/TiO₂ nanocomposite film and designing of Broadband Microstrip Antenna for 5G Wireless Systems Operating at 28 GHz.

19. Nitha L P, Department of Chemistry, VeluThampi Memorial Nair Service Society College, Dhanuvachapuram, University of Kerala, Thiruvananthapuram 695503, Kerala, India.

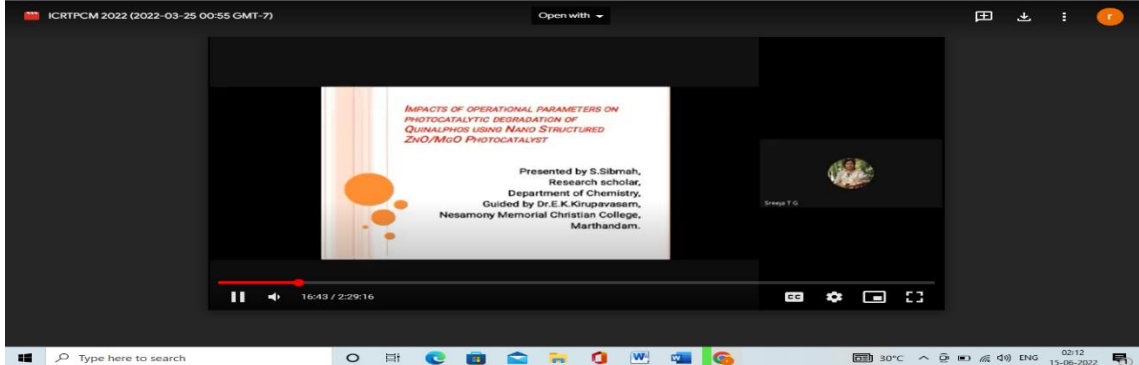
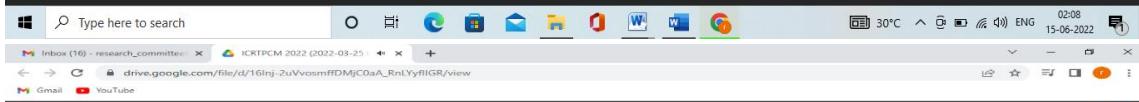
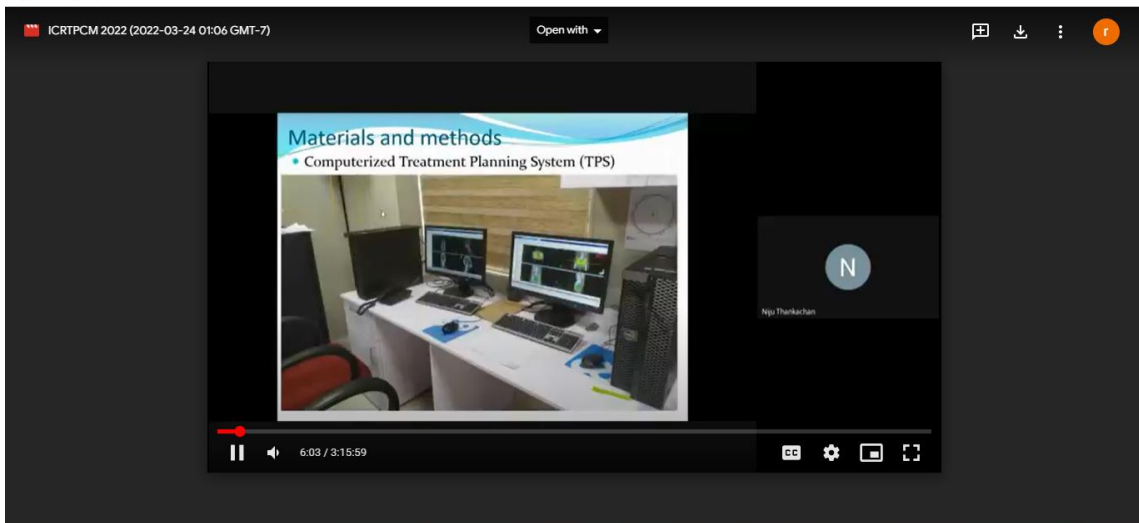
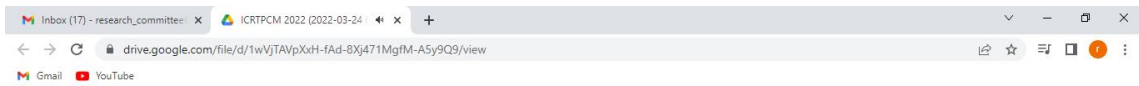
Studies on some oxocation complexes with a potentially bioactive bishydrazone derivative.

20. SushamaRaj R V, Department of Chemistry, VeluThampi Memorial Nair Service Society College, Dhanuvachapuram, University of Kerala, Thiruvananthapuram 695503, Kerala, India.

Comparison of the variations found in cell wall materials present in the secondary wood of *tectona grandis*, linn. using computational methods and development of biomodelling database.

21. Sreeja T G, Department of Chemistry, VeluThampi Memorial Nair Service Society College, Dhanuvachapuram, University of Kerala, Thiruvananthapuram 695503, Kerala, India.

Homology modeling and surface analysis of ligand binding domains of human aryl-hydrocarbon receptor.



MATHEMATICS

The Department of Mathematics started functioning since the inception of the college in 1964. The degree course in Mathematics was started in the year 1967. Since then, the department has proved its excellence in both academic and non-academic areas. The department has actively involved in research activities and organized two invited talks and one oral paper presentation session in ICRTPCM 2022.

The first Invited Talk in Mathematics was held on 25th March 2022 at 10:30 am. The topic of lecture was “Domination Energy in Graphs” and the resource person was Dr M Kamal Kumar, Professor, Department of Information Technology Mathematics, University of Technology and Applied Sciences, Muscat, Sultanate of Oman. Ms Deepa D, Assistant Professor, VTM NSS College delivered the welcome speech and Ms Afil A S of Mathematics department delivered the vote of thanks. The session came to an end at 11:30 am along with discussion session.

The second Invited Talk was on the topic “Structure of Regular Semigroups” By Dr Azeef Muhammad P A , Center for Research in Mathematics and Data Science, Western Sydney University, Australia. It was held on 26th March from 11:30am to 12:30pm. Ms Keerthi Chandran of Mathematics department delivered the welcome speech and Ms Deepa D, HoD of Mathematics delivered the vote of thanks.

The Oral Presentation session started at 1:30 pm on 26th March and was chaired by Ms Arya Ashok of Mathematics department. There were nine participants registered for the oral presentation, out of which 8 presented. The presentations were evaluated by two experts Dr John K Rajan, Assistant Professor, University College, Thiruvananthapuram and Dr Dilip D S, Assistant Professor, St. John’s College, Anchal and the best presenter was selected.

Presentations: Mathematics


Chair: Ms Deepa D, Assistant Professor, Department of Physics, Dhanuvachapuram.

1. Sarika M. Nair, Research scholar in Mathematics, NSS Hindu College Changanassery.
The Mobius Euler Function Graph.

2. M. Vasuki, Research scholar in Mathematics, Veltech Rangarajan Dr Sagunthala R&D Institute of Science and Technology.
Average Fuzzy Resolving number and Average Fuzzy Super Resolving number of a Fuzzy Graph.
3. Lijo Vincent, Department of Mathematics, TKM College of Engineering, Kerala, India
Affiliated to APJ Abdul Kalam Technological University.
Vertex Energy and Energy of Graphs
4. Deepa D, Research Scholar, Department of Mathematics, TKM College of Engineering, Kollam.
Neighbourhood Degree Sum Multiplicative Sombor Index of Some Nanotubes and Some Graphs.
5. Reema Paul, St Aloysius College, Edathua, Alappuzha.
Frieze Groups
6. Muhsina C S, St.Thomas College, Thrissur
Impact of Online Class on College Students.
7. P. M. Shihab, Department of Mathematics, TKM College of Engineering, Kerala, India.
Affiliated to APJ Abdul Kalam Technological University
Linear Models for Topological Indices of Line-Graphs of Linear Alkanes.
8. P. K. Hemalatha, Research scholar in Mathematics, Veltech Rangarajan Dr Sagunthala R&D Institute of Science and Technology.
Modified Fuzzy Geometric Mean Labelling

Domination Energy in Graphs

Dr. M. Kamal Kumar
 Faculty in Department of Information Technology-
 Mathematics Section
 University of Technology and Applied Sciences
 Higher College of Technology, Sultanate of Oman
Kamal.Kumar@hct.edu.om, kamalmvz@gmail.com



جامعة العلوم والتقنية
 University of Technology and Applied Sciences
 Higher College of Technology

4:20 / 51:51

ICRTPCM 2022 (2022-03-24 22:00 GMT-7)

- Ivan Gutman and Boris Furtula, The Total π -Electron Energy Sage, *Croatica Chemica Acta*, 90(3), 2017
- E. Sampath Kumar, Graphs and Matrices, Proceedings of National Workshop on Graph theory Applied to chemistry, chapter-2, Centre for Mathematical Sciences, Pala Campus, Kerala, 1-3, Feb 2010.
- M. Kamal Kumar, Domination energy of some well-known graphs, *International Journal of Applied Mathematics*, 3(1), 417-424, 2012.
- M. Kamal Kumar, Johnson Johan Jeyresy and R. Winson, Different Domination energies in graphs, *International Journal of Mathematical and Combinatorics*, Vol. 4, 103-145, 2018

43:30 / 51:51

ICRTPCM 2022 (2022-03-26 20:31 GMT-7)

These numbers show that semigroups do not much resemble groups, and this diversity and the complex structure makes it a very interesting object.

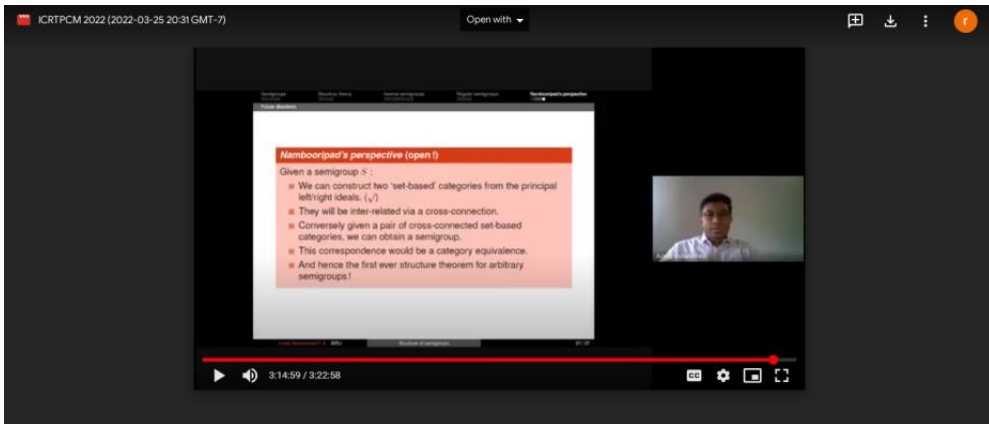
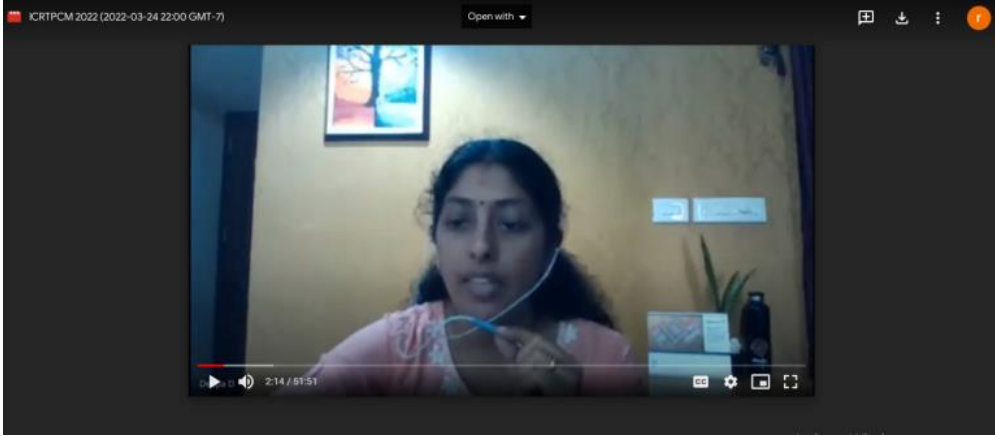
Some classical examples of semigroups are:

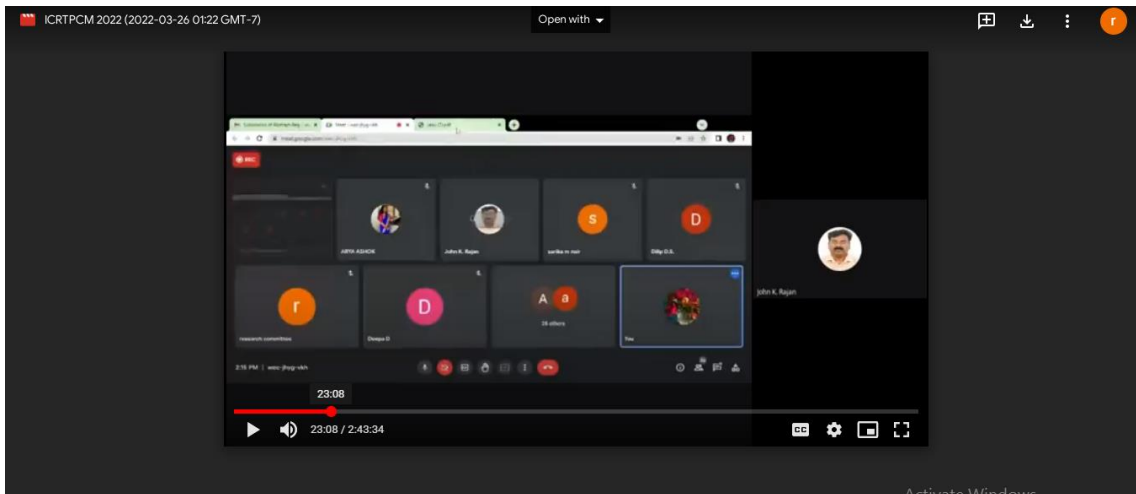
Example
 The set of Natural numbers is a semigroup under addition.

Example
 All transformation semigroup: The semigroup of all mappings on an arbitrary set X.

2:42:31 / 3:22:58

Activate Windows





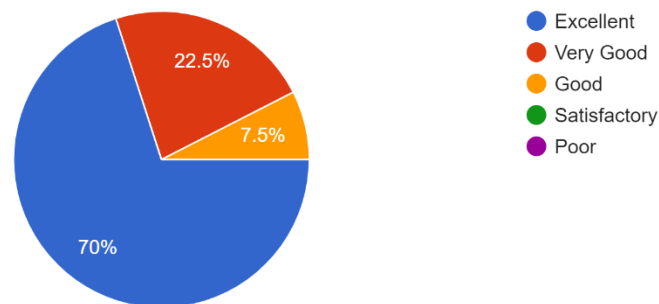
Feedback

The feedback was collected and analysed. Researchers, students and faculties submitted their valuable feedback for ICRTPCM-2022 and they gave excellent rating for the programme. Out of overall responses, 70% rated excellent, 22.5 % very good and 7.5 % rated as good.

https://docs.google.com/spreadsheets/d/11WVBlDpt_7_iihOc9KEctT70eYG99MI/edit?usp=sharing&ouid=114221826774247548748&rtpof=true&sd=true

How do you rate the overall conduct of the Research Conference?

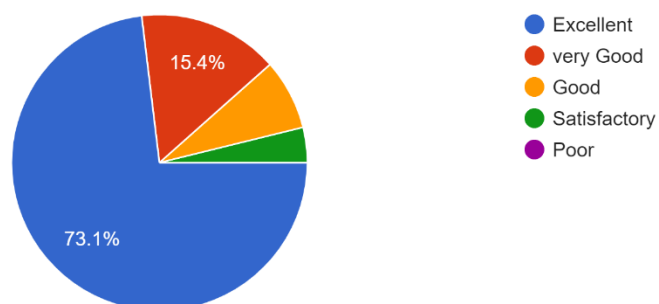
40 responses



The feedback for our Resource persons are as follows

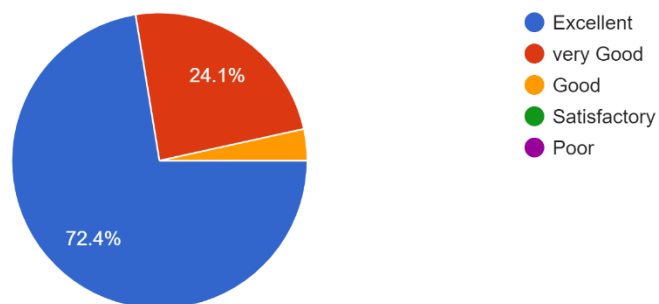
For Physics Delegates - How do you rate the Technical Session - "How Climate Models got so accurate that they earned a Nobel Prize " by Dr Ajay Mohan Raveendran?

26 responses



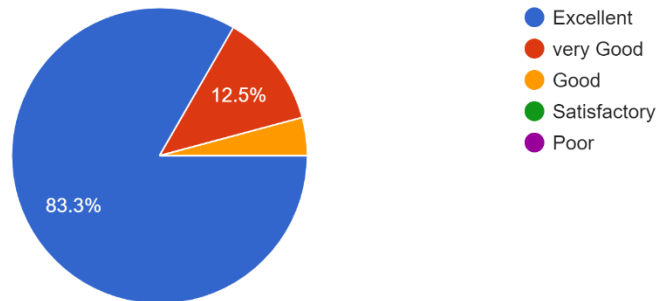
For Physics Delegates - How do you rate the Technical Session - "Density Functional Theory in Material Research" by Dr S Assa Aravindh?

29 responses



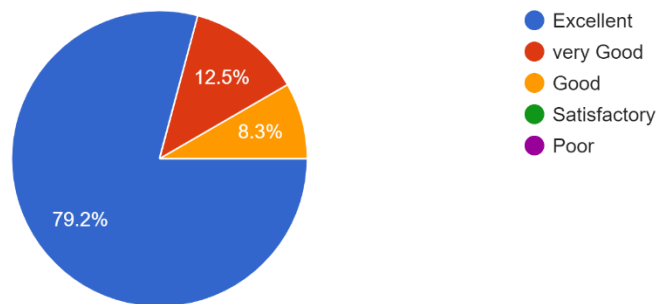
For Chemistry Delegates - How do you rate the Technical Session - "Energy Landscape Study on RNA Molecules" by Ms Gayathri Sankar?

24 responses



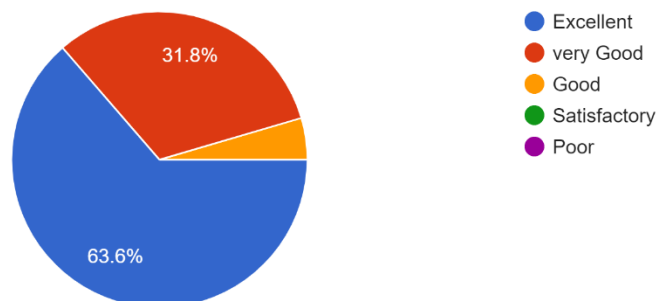
For Chemistry Delegates - How do you rate the Technical Session - "Plasma Surface Engineering and Natural Fibres for Potential Applications" by Mr Renjith Raman Pillai?

24 responses



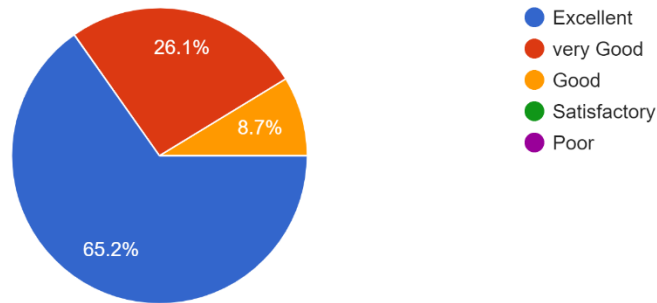
For Mathematics Delegates - How do you rate the Technical Session - "Domination Energy in Graphs" by Dr M Kamal Kumar?

22 responses

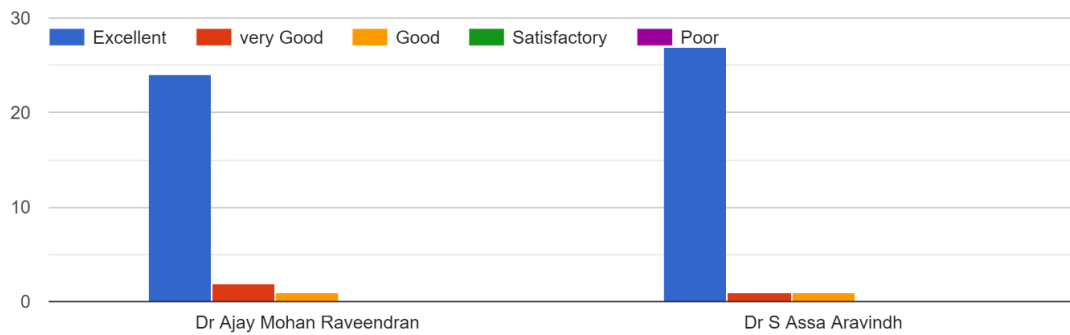


For Mathematics Delegates - How do you rate the Technical Session - "Structure of Regular Semigroups" by Dr Azeef Muhammad P A?

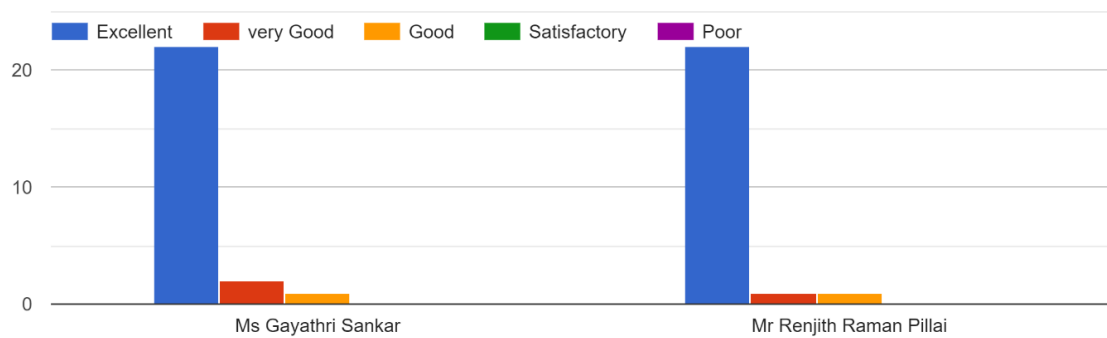
23 responses



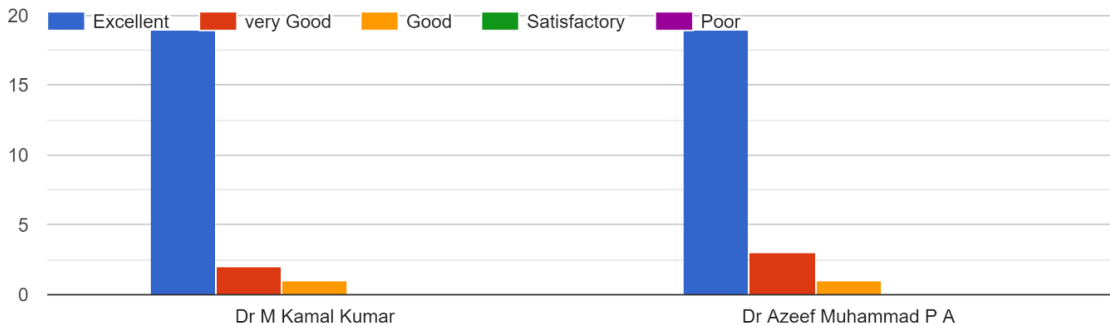
How do you rate the subject expertise of the Resource persons of International Research Conference in Physics?



How do you rate the subject expertise of the Resource persons of International Research Conference in Chemistry?



How do you rate the subject expertise of the Resource persons of International Research Conference in Mathematics?



2. International Conference on Research Trends in Social Sciences: History, Economics and Political Science (ICRTSS) 2022.

International Conference on Research Trends in Social Sciences: History, Economics and Political Science (ICRTSS) 2022 aimed to enhance the knowledge and discourse of the academic community and thereby the society by promoting and applying social ideas, concepts and theories. It helps to bring faculties, academicians and scholars from various disciplines to a platform and thereby share and enrich the academic knowledge of the participants.

ICRTSS-2022 was organized as part of ARCSSCAL 2022 by the Departments of History, Economics and Political Science jointly and conducted invited talks of eminent international personalities in online platform on 24, 25, 26 March 2022. Students, faculty members and research scholars actively participated and presented papers in the seminar. The conference was conducted in online mode through Google meet.

The objective of the conference was to provide exposure to the students regarding current issues in social science which will instill a research bend in their minds.

Video links

1. <https://drive.google.com/file/d/1NGngXX7lBGZYCiMB-Dcc4lQ45YNb2QyW/view?usp=sharing>

2. https://drive.google.com/file/d/1bB5Jy6A027d4FLt16T1wWYeCq2_gxkai/view?usp=sharing

3. <https://drive.google.com/file/d/1jXQ0GXyWVavEuURq1lox5sfN2qDJDy3Y/view?usp=sharing>.



VTM NSS COLLEGE
DHANUVACHAPURAM, THIRUVANANTHAPURAM
 (Accredited by NAAC with CGPA 2.71 at B* Grade)
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ARCSSCAL - 2022
 (Annual Research Conference of Science, Social - Science,
 Commerce, Arts & Language)



International Conference on
**Recent Trends in Social Sciences:
 History, Economics & Political Science
 (ICRTSS-2022)**

2022 March 24, 25, 26
 Platform : Google Meet

Organized by
 Department of Political Science,
 Post Graduate Departments of History
 and Economics in association with IQAC
 (Internal Quality Assurance Cell)

Thrust Areas

- Gender History
- Local History
- Methodologies and theories in History
- Political History
- Religious History
- Social History
- Subaltern History
- Unsung heroes in History
- Agriculture
- Industry
- Banking and Finance
- Health
- Education
- Sustainable Development
- Public Finance
- Labour Market
- Democratic Governance
- Welfare policies and Pandemic
- War as a mechanism to solve the legitimacy issue of Governments
- Market Economy and Labour Crisis in India
- Corporate Sovereignty: A Challenge to New International Order
- Decentralisation and Participatory Democracy in Kerala

Peer reviewed full papers presented at the conference will be published in conference proceedings with ISBN Number

Invited Speakers



Dr. Lekha Chakraborty
 Professor at NIPFP and Member of the Governing Board of Management, International Institute of Public Finance, Munich



Mr. Balagopal Balakrishnan
 Editor & Activist Information Portal for the NRI Community in Europe London
www.ukmalayalee.com



Ms. Geethu Baby
 Faculty of Education University of Tasmania Australia



Dr. V. Biju Kumar
 Associate Professor, Centre for Political Studies, School of Social Sciences, Jawaharlal Nehru University, New Delhi-110067



Ms. Gayatri Nair
 Economic Advisor to Vice Chairperson Kerala State Planning Board, Govt of Kerala.



Dr. Agnes Thomas
 Executive Director CCS, Toronto

Concept Note

Through history, we learn how past societies, systems, ideologies, governments, cultures and technologies were built, how they have operated and how they have changed. Studying history allows us to observe and understand how people and societies behaved. It expounds the culture of the present time by describing the past.

Presently, the world economy is facing an unprecedented crisis due to the covid 19 pandemic. Supply chain disruptions, inflation and unemployment in developed as well as emerging economies are shaking the governments. Adding to that the political unrest and polarisation among the world economic powers are placing a great threat to humanity. Economists all over the world are trying to find a new road map for the macroeconomic policies to revive the sluggish economies. It is time for the academic fraternity to unite to give direction and hope for economic revival, transcending the boundaries.

The issue of legitimacy looms over the governments on how best to cope with the issues of economic crisis and welfare aspirations. A political institution can only be legitimate when it succeeds in persuading the aspirations of the people. The response of the system towards the emerging crisis demands more theoretical as well as philosophical explanations. The various questions on Governance, Welfare Policies, Labour crisis, Market economy, Corporate Sovereignty and Decentralisation provides more space for research which helps to review these common conceptions in the multilateral realm.

ECONMICS

Department of Economics organised talks and paper presentations 24.03.2022 and 25.03.2022.

On 24.03.2022 at 10:30 am the talk was by Dr Lekha Chakraborty, Professor at NIPFP and Member of the Governing Board of Management, International Institute of Public Finance, Munich on "Fiscal Risks and Global Uncertainties". 80 participants joined the talk through the Google meet.

On 25/3/2022, 10.30 am talk by Ms Gayatri Nair IES, Economic Advisor to Vice Chairperson, Kerala State Planning Board on "Role and relevance of Planning in Kerala in current times". Around 80 participants joined the talk through the Google meet.

On 25/3/2022 afternoon paper presentations by the department through Google meet. Smt Greeshma RP, Assistant Professor, Department of Economics, NSS College, Cherthala chaired the paper presentation session.

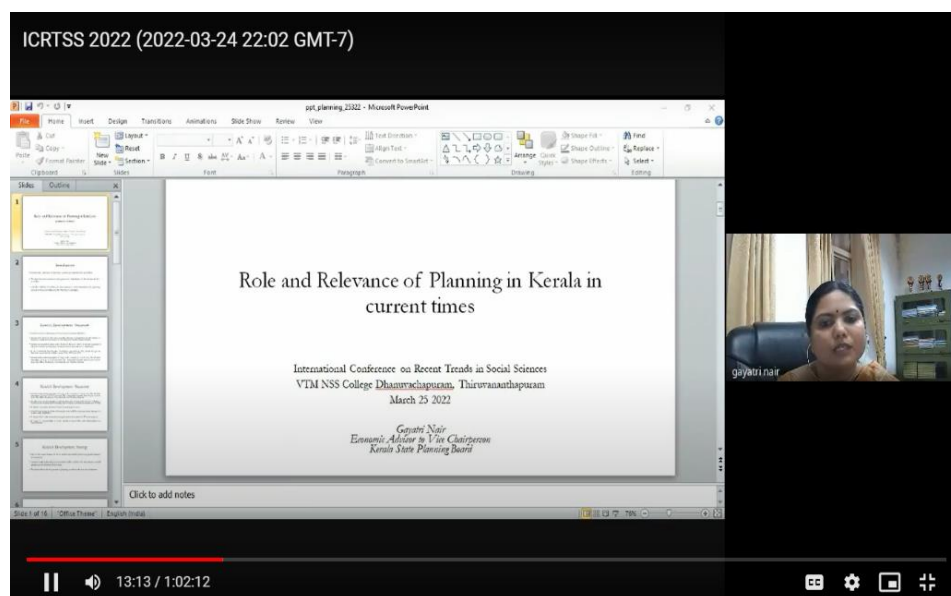
Students, teachers and research scholars from various institutions attended the webinar. The feedback revealed that the participants were satisfied with the content of the webinar, resource person and coordination of the webinar.

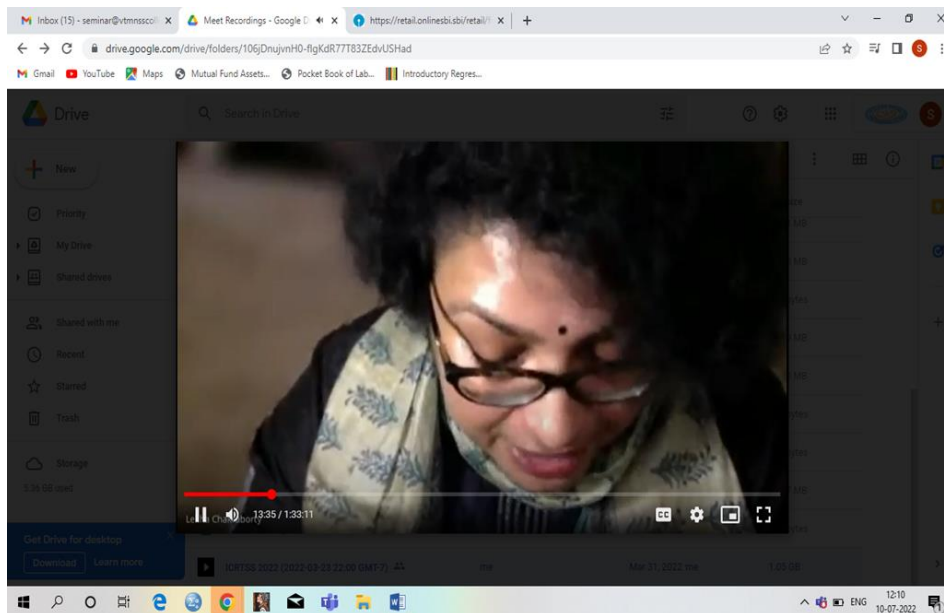
Presentations: Economics

Chair: Akhilasree L, Assistant Professor, PG Department of Economics, VTM NSS College, Dhanuvachapuram

1. Shereen Beula L. Jose, Research Scholar, Department of Economics, University of Kerala:
Educational Progress Of Tribal Communities In Kerala
2. Lakshmi Santhosh, I BA Economics, Department of Economics, Bharata Mata College,
Thrikkakara, Ernakulam.
History Of Evolution Of Pandemics And The Economic Changes
3. Dr. Sunitha Vijayan, Assistant Professor (Contract), School of Distance Education,
Kariavattom Campus, University of Kerala Thiruvananthapuram.
Crop Insurance in Kerala:A Performance Appraisal of SCIS.
4. N K Sunil Kumar, Assistant Professor, Department of Sociology, M G College,
Trivandrum:
Impact of Covid on Social Relations.

5. Akhilasree.L Asst.Professor, Department of Economics,VTMNSS College,
Dhanuvachapuram.
Sustainable Development Goals And Self Help Groups.
6. Akshara V, Third Year BA Economics student, VTM NSS College,
Dhanuvachapuram,
& Vishnu P. S. Assistant Professor, Dept. of Economics, VTM NSS College,
Dhanuvachapuram, Thiruvananthapuram.
Economic Cost of Road Traffic Injuries on Household: A Study on Neyyattinkara
Taluk
7. Dr. Sunitha Vijayan, Assistant Professor (Contract), School of Distance Education,
University
of Kerala, Thiruvananthapuram.
Crop Insurance in Kerala: A Performance Appraisal of SCIS





POLITICAL SCIENCE

The Department of Political Science conducted an invited talk on 24.0./22 at 7.00 p.m. -8.00 p.m. on ‘State and Globalisation’, Mr. Sudheesh Kumar J, Head of the Department of Political Science offered the welcome speech. Dr.V.Biju Kumar, Centre For Political Science, School Of Social Science, JNU was the resource person. Bindhu Chandran V, Assistant Professor of Political Science conveyed the vote of thanks.

On Day 2 (26.03.22) the invited talk was conducted at 4.00-5.00 p.m. on ‘The Role of Migrants in UK in Nation Building: An Introspective Overview’. Sreejith P. V. Assistant Professor of Political Science delivered the welcome address. The resource person was Balagopal Balakrishnan Editor and Activist Information Portal for the NRI community in Europe, London. The session concluded with the vote of thanks by Sudheesh Kumar J, Head of the Department of Political Science. On Political Science, there were eight paper presentations held on 25.03.22 between 2.00 -3.30 p.m. The session was chaired by Sreejith P.V Assistant Professor of Political Science, VTM NSS College, Dhanuvachapuram.

Presentations: Political Science

Chair: Sreejith P V, Assistant Professor, Department of Political Science, VTM NSS College, Dhanuvachapuram

1. Harilal C, Assistant Professor, Department of Political Science, Government College for Women, Thiruvananthapuram
Contours Of Democracy And Legitimacy In Myanmar

2. Athira P T, Research Scholar, Department Of Political Science, Sree Narayana College,
Kollam
Political imagination, Alienation of Tribal land and recent trends in Kerala
3. Suja Karappath, Assistant Professor in Political Science, S N College, Kollam:
Gender And
Sexuality
4. Tony George, Research Scholar, Dept of Political Science, University of Kerala
Redefining the Idea of University: A Study of Central Universities in India.
5. Julie John, Research Scholar, Department of International Relations and Politics,
Central
University of Kerala, Kasaragod
Post Materialism and New Social Movements
6. Preetha G S, Assistant Professor, Department of Political Science, S N College,
Kollam:
National Education Policy 2000
7. Rahul Vijayan. V, PhD Scholar, Department of Political Science, University of
Kerala:
Marginality And Education: A Case Study Of Alternatives, Schools In Kerala
8. Midhula Ajay, Mphil scholar, Department of Political Science, University of
Kerala, Trivandrum, Kerala.
Religion; Checking Facts and Practices



HISTORY

On Day 1(25.03.22), the Department of History conducted an invited talk on the “Evolution of English Education in India” at 6.00 p.m.-7.00 p.m. The welcome address was delivered by Dr.Sajini P, Head of the Department of History. The resource person was Ms Geethu Baby, Faculty of Education, University of Australia. Dr Unnithan S, Assistant Professor of History delivered the vote of thanks.

The paper presentations were held on 26.3.22 between 10.00-11.30 am. There were twelve presentations in History. The session was chaired by Dr Ambili S, Assistant Professor of History, VTM NSS College, Dhanuvachapuram.

The International Conference on Recent Trends in Social Sciences: History, Economics and Political Science (ICRTSS 2022) concluded on 26.03.22.

Paper presentations: History

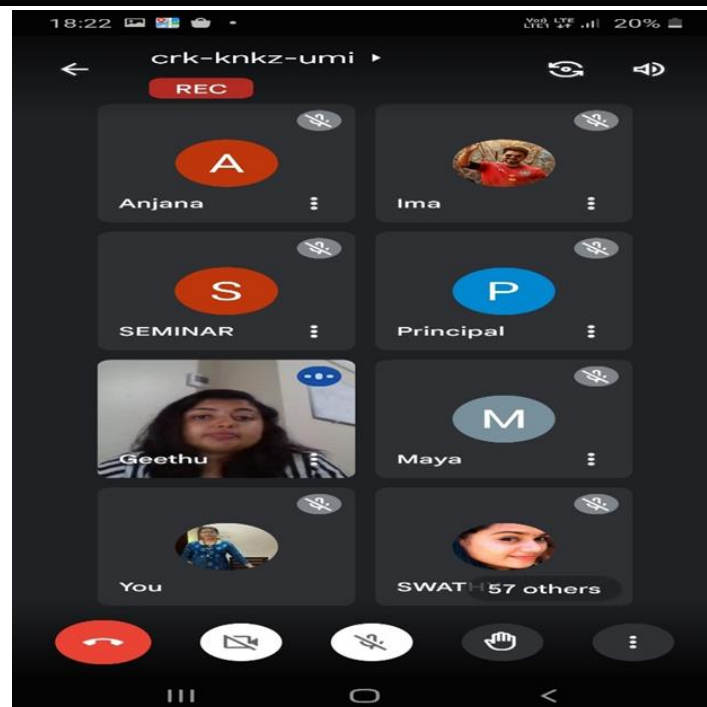
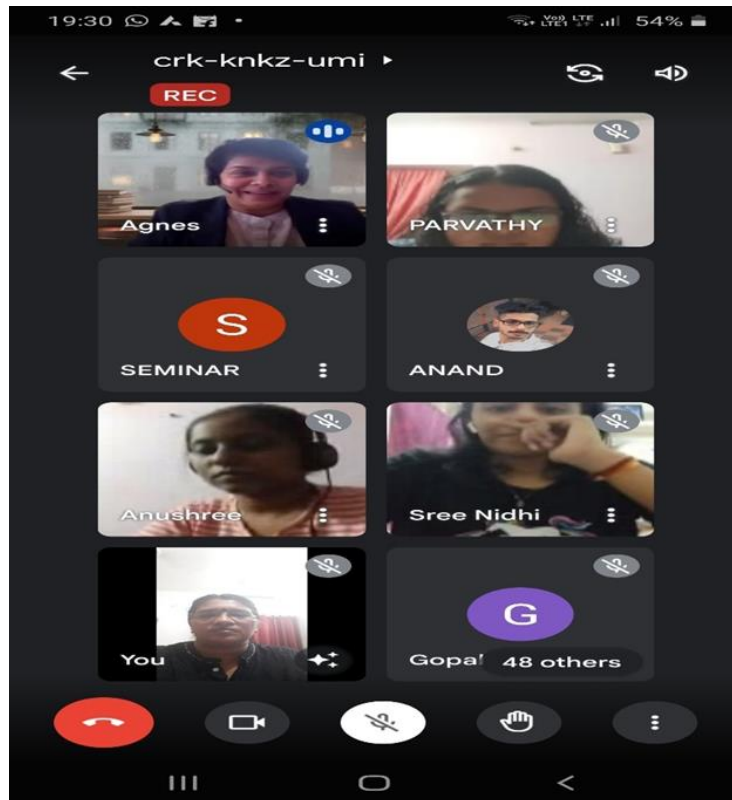
Chair: Dr. Ambili S, Assistant Professor, PG Department of History, VTM NSS College, Dhanuvachapuram.

1. Mani V, Assistant Professor, Department of History, S.N College for Women Kollam.
Dr .B.R Ambedkar: A Champion of Reservation for the depressed classes in India
2. Dr. Aranya K Sasi, Assistant Professor, Department of History, Sree Narayana College, Kollam.
Arattupuzha Veleyudha Panikkar: A Warrior Of Social Justice
3. Keerthana Santhosh, Assistant Professor & Part Time Research Scholar, St. Mary's College (Autonomous) Thoothukudi.
Dress, Ornaments and Women – An Analysis of transformation in Travancore
4. Retheesh R, Research Scholar, Dept. Of History, Manonmaniam Sundaranar University, Tirunelveli.
The Role of Archaeology in the Development of Historical Studies of Kerala.
5. Dr. Vishnu Sreevalsan, Assistant Professor, Department of History & Political Science, Sanatana Dharma College Alappuzha
The Historical Background of the Russo-Ukrainian Conflict.
6. Faisal I, Social Science Teacher, Good Shepherd Public School And Junior College, Thengana, Changanacherry.
Subaltern History And The Legacy of Tribal Communities in India's Freedom Struggle.
7. Anagh, Research Scholar, Mahatma Gandhi University, Kerala.
Normalisation of Hyper Masculinity and Torture of Men
8. Dr. Sreekala K L, Associate Professor, N.S.S. Training College, Changanacherry:
Augmented Reality: A Future trend in Education
9. Rajathi Johnson, PhD Research Scholar, Institute of Management in Government, University of Kerala, Thiruvananthapuram.
Menstruational Discourse among Homosexual people.
10. Dr. Shahila Sheril P S, Kerala University, UPSA.

Dowry Deaths in Thiruvananthapuram during lockdown: Women have to fight back.

11. Dr. Deepu JS, Assistant Professor of History, Govt. College for Women, Thiruvananthapuram, Kerala. & Seema S L, Research Scholar, Dept. of History, University College, Thiruvananthapuram.

C.V. Kunjiraman as a Journalist and visionary



Feedback

The feedback was collected and analysed. Researchers, students and faculties submitted their valuable feedback for ICRTSS-2022 and they gave excellent rating for the programme. Out of overall responses, 74% rated excellent and 26 % very good.

How do you rate the overall conduct of the Research Conference?

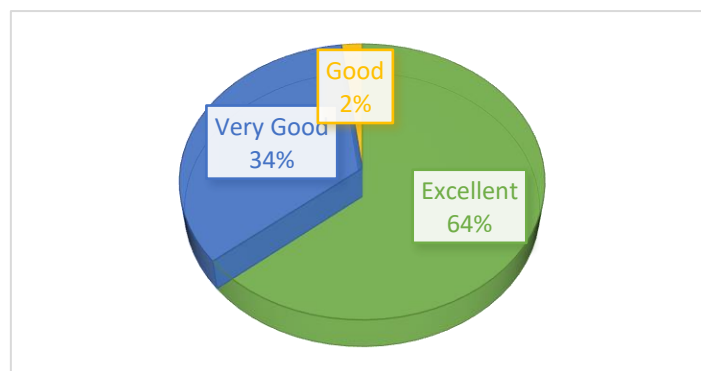
- Excellent – 37
- Very Good – 13
- Good – Nil



The feedback for our resource persons is as follows: -

How do you rate the subject expertise of the Resource persons of International Research Conference in Political Science? [Dr V Biju Kumar]

Excellent – 32, Very Good – 17 & Good – 1



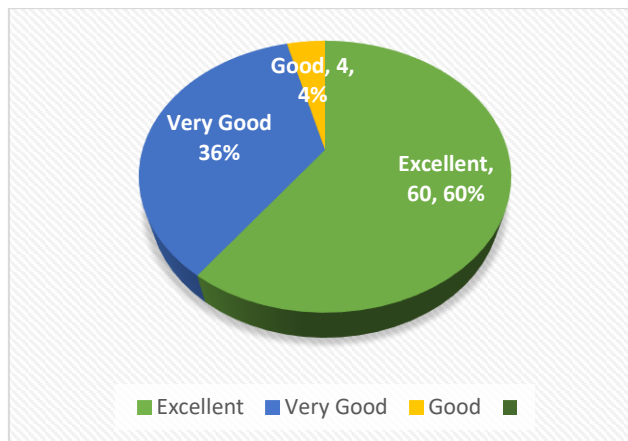
How do you rate the subject expertise of the Resource persons of International Research Conference in Political Science? [Mr. Balagopal Balakrishnan]

Excellent – 34, Very Good – 14 & Good – 2



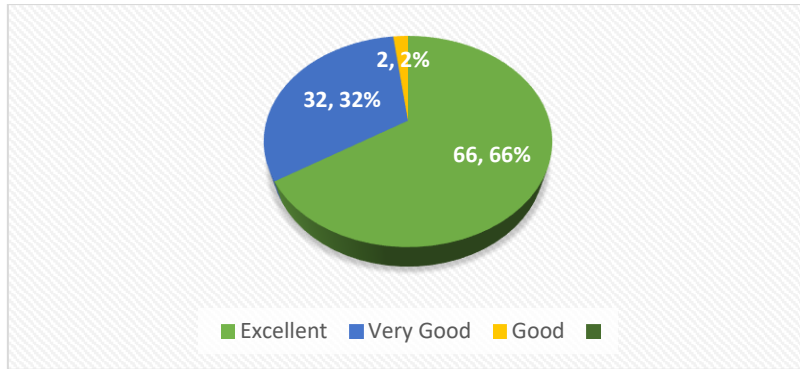
How do you rate the subject expertise of the Resource persons of International Research Conference in Economics? [Dr Lekha Chakraborty]

Excellent – 30, Very Good – 18 & Good – 2



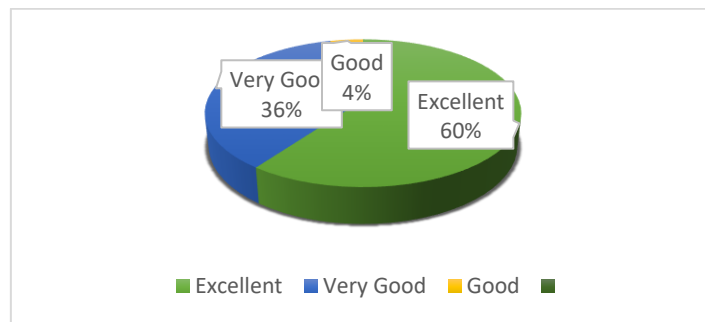
How do you rate the subject expertise of the Resource persons of International Research Conference in Economics? [Ms Gayatri Nair]

Excellent – 33, Very Good – 16, Good – 1



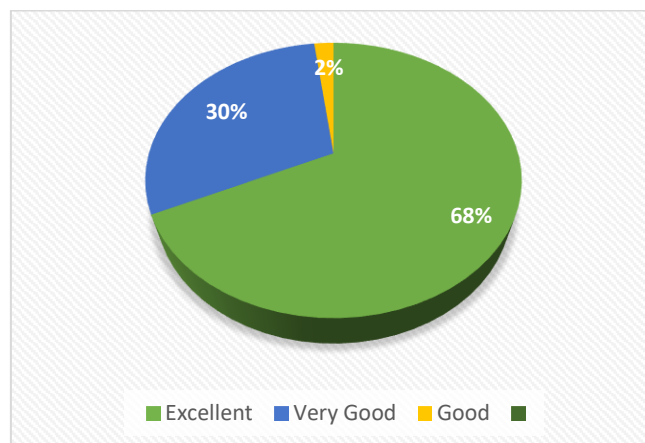
How do you rate the subject expertise of the Resource persons of International Research Conference in History? [Ms Geethu Baby]

Excellent – 30, Very Good – 18, Good – 2



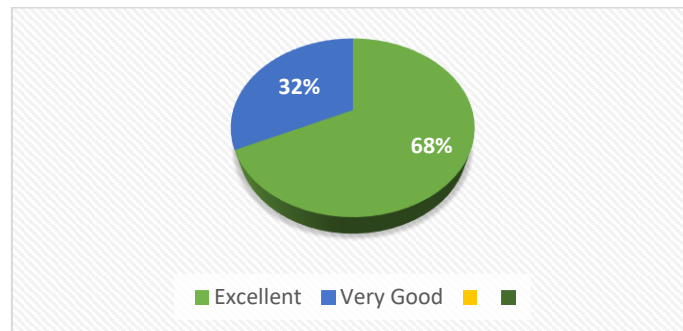
How do you rate the subject expertise of the Resource persons of International Research Conference in History? [Dr Agnes Thomas]

Excellent – 34, Very Good – 15, Good – 1



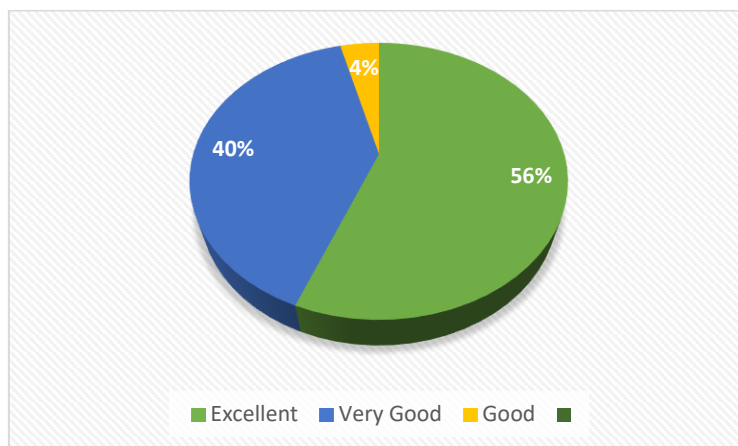
For Political Science Delegates - How do you rate the Technical Session - "State and Globalisation " by Dr V Biju Kumar?

Excellent – 34, Very Good – 16, Good – Nil



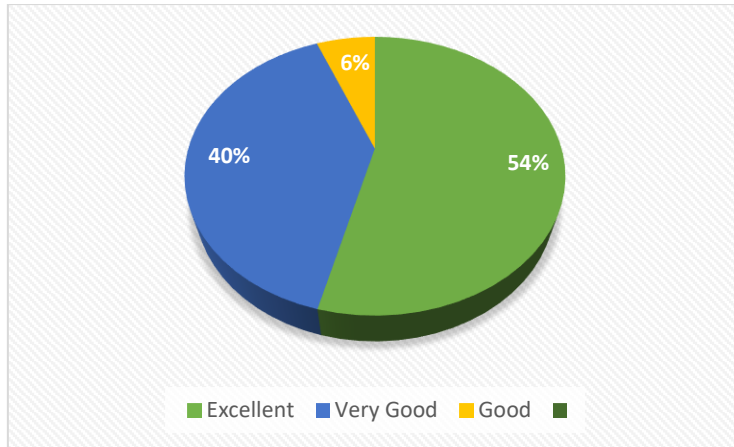
For Political Science Delegates - How do you rate the Technical Session - "The Role of Migrants in UK in Nation Building; An Introspective Overview" by Mr Balagopal Balakrishnan?

Excellent – 28, Very Good – 20, Good – 2



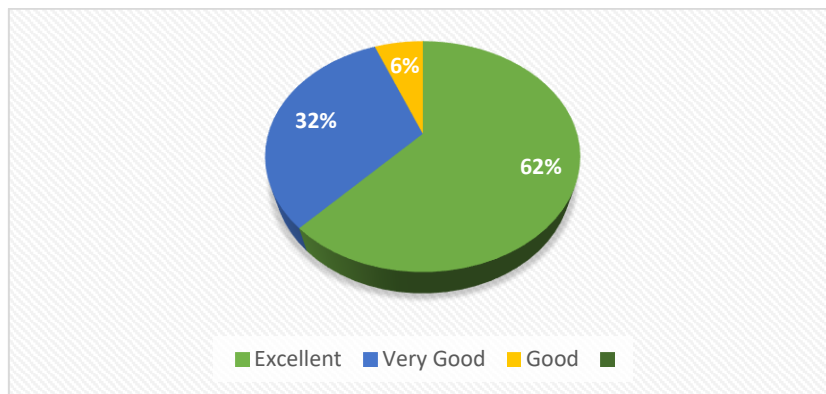
For Economics Delegates - How do you rate the Technical Session - "Fiscal Risks and Global Uncertainties" by Dr Lekha Chakraborty?

Excellent – 27, Very Good – 20, Good – 3



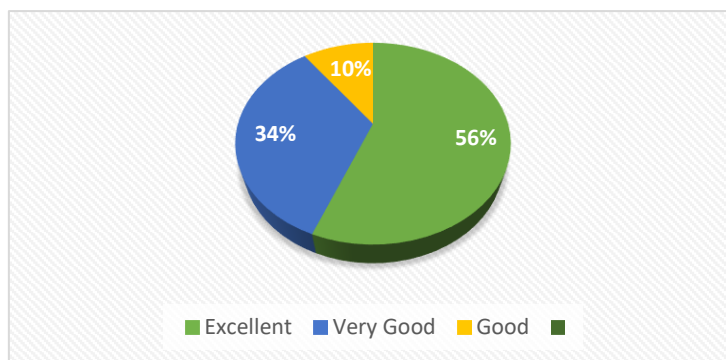
For Economics Delegates - How do you rate the Technical Session - "Role and relevance of Planning in Kerala in Current Times" by Ms Gayatri Nair?

Excellent – 31, Very Good – 16, Good – 3



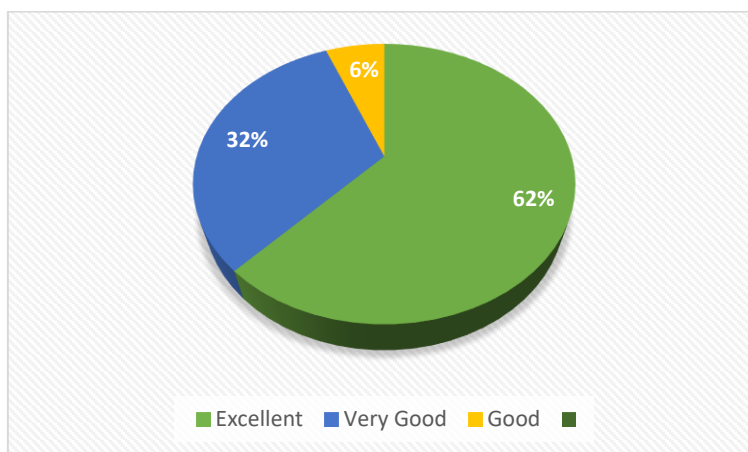
For History Delegates - How do you rate the Technical Session - "The Evolution of English Education in India" by Ms Geethu Baby?

Excellent – 28, Very Good – 17 , Good – 5



For History Delegates - How do you rate the Technical Session - "Impacts of Gender and Class on Social Development" by Dr Agnes Thomas?

Excellent – 31, Very Good – 16, Good – 3



3. International Conference on Recent Research Trends in Biological Sciences (ICRTBS) 2022.

We live in an era when the world is changing rapidly. Biological Science is the science of the future. Every day we are racing towards discovering ways of understanding different disciplines under Biological Science. However, recent changes are usually associated in people's minds and unprecedented advances in digital technologies. In the face of these truly remarkable successes, which are widely advertised by the mass media, the scientific advances seem to be relatively minor. But this impression is inaccurate. The success of the natural sciences in recent decades is no less impressive than that of technology. Successes of biology are an excellent example of the achievements of the natural

sciences. It would not be an exaggeration to say that over the past 50 years, biology has developed much faster than any other science.

India has emerged as one of the leading countries in the field of biological research. To fulfil its aspirations, India's greatest challenge will be in educating, recruiting, and supporting its next generation scientists, academicians, policy makers and students in the field of biological sciences. The goal of this conference is to provide a common platform for researchers, academicians, and students to share their knowledge about the recent developments in the field of Biological Sciences, and its future prospects. The organizers would be pleased to host wide range of researchers from various disciplines of biological sciences across the country.

Important Dates

Last date of submission of abstract : 27/03/2022
Acceptance of abstract: 28/03/2022
Submission of full paper: 10/04/2022

Abstract and paper should be sent to the e-mail id.
icrtbs2022@vtmnsscollege.ac.in

Please Click here to register

<https://forms.gle/naxZ54xvNfGN3J2s9>

Correspondence

Dr. Sushama Raj R.V.
Co-ordinator, ICRTBS 2022
Contact No: 9847232143

Dr. Gayathri Elayidom U.
Co-ordinator, Department of Zoology
Contact No: 7025029251

About College

The Nair Service Society established VTM NSS College in 1964 in commemoration of the great freedom fighter Thalakulathu Velu Thampi Dalawa on the occasion of his 200th birth anniversary. The college is affiliated to the University of Kerala and accredited with B⁺ Grade (CGPA 2.71) by NAAC. The college offers 11 UG & 4 PG Programmes. Our research committee aims to inculcate research aptitude among the faculty, research scholars and students. It encourages research interest among faculty and the exchange of information regarding various aspects of recent trends in research. Research committee always tries to update the recent trends in Science & Technology, Social science, Literature and Commerce.

Organizing Committee

Dr. V.M. Anandakumar (Principal)
Ms. Shama Pillai (Co-ordinator, IQAC)
Dr. Bijini B.R.
(Co-ordinator, Research Committee)
Dr. Sushama Raj R.V.
(Co-ordinator ICRTBS 2022)
Dr. Rameshkumar S.
(Head Department of Botany)
Dr. Indu M. Kuttly
(Head Department of Zoology)
Dr. Gayathri Elayidom U.
(Department of Zoology)
Ms. Manjary S.
(Department of Zoology)
Dr. Manish K.
(Department of Zoology)
Ms. Meera Shaji
(Department of Botany)

Paper Submission Guidelines

- Papers are invited on sustainable futuristic areas in multi-disciplinary and interdisciplinary fields of Biological Science.
- Papers shall be typed only in MS Word format, Times New Roman, font size 12 and line spacing with 1 inch margin on all sides.
- Paper should not exceed 2500 words (including abstract) and five pages in A4 size paper (including figures, tables & references).
- The beginning of the paper should contain the following information at the top - Title of the paper, Authors' name, Institution Name and address, email id and contact no.
- References should be in APA Format.
- Authors have to abide by UGC Prevention of plagiarism norms with maximum acceptable level of similarity of 10%.
- The author shall give a letter of undertaking regarding the originality of the paper written.
- Abstract and full length paper shall be sent to the specified e-mail id.

VTM NSS COLLEGE

Dhanuyachapuram, Thiruvananthapuram
(Accredited by NAAC with CGPA 2.71 at B⁺ Grade)
www.vtmnsscollege.ac.in

ARCSSCAL-2022

(Annual Research Conference of Science,
Social Science, Commerce Arts and Language)



Call for Papers



International Conference on Recent Research Trends in Biological Sciences: (ICRTBS-2022)

2022 March 30,31
Platform : Google Meet

Organised by
Department of Botany and Zoology
in association with IQAC
(Internal Quality Assurance Cell)

Thrust Areas

Biomaterials and Biotechnology
Nano Science and Technology
Microbial Research
Taxonomy and Systematics
Phytochemistry and Plant Products
Ethnobotany and Pharmacognosy
Bioinformatics and Computational Research
Sustainable Research
Environmental Pollution
Bioactive Molecules and Drug Discovery
Animal Physiology
Biodiversity
Bioresources
Aquatic Biology
Insect Science and Pest Management
Fisheries

Peer reviewed full papers presented
at the conference will be published
in conference proceedings with
ISBN Number

Invited Speakers



Dr. ANILA P. AJAYAN
Post-Doctoral Researcher,
State Key Laboratory of Freshwater
Ecology and Biotechnology,
Freshwater Algal Ecology Division,
Institute of Hydrobiology,
Chinese Academy of Sciences,
Wuhan 430072, China.
e-mail: anila.dehradun@gmail.com



Dr. T.S. SWAPNA
Professor and Head
Department of Botany
University of Kerala
Kaniyattom,
Thiruvananthapuram-695 581
Kerala, India
e-mail: swapnats@yahoo.com



Dr. MOHSIN SULAIMAN
Postdoctoral Fellow
Department of Nutrition and Health
College of Medicine and Health Sciences
United Arab Emirates University
Al Ain, UAE.
mohsin.sulaiman@gmail.com



Dr. MANJU Y K
Senior Principal Scientist,
Division of Microbiology,
Central Drug Research Institute,
Lucknow.
manju@cdri.res.in

Concept Note

We live in an era when the world is changing rapidly. Biological Science is the science of the future. Every day we are racing towards discovering ways of understanding different disciplines under Biological Science. However, recent changes are usually associated in people's minds and unprecedented advances in digital technologies. In the face of these truly remarkable successes, which are widely advertised by the mass media, the scientific advances seem to be relatively minor. But this impression is inaccurate. The success of the natural sciences in recent decades is no less impressive than that of technology. Successes of biology are an excellent example of the achievements of the natural sciences. It would not be an exaggeration to say that over the past 50 years, biology has developed much faster than any other science.

India has emerged as one of the leading countries in the field of biological research. To fulfil its aspirations, India's greatest challenge will be in educating, recruiting, and supporting its next generation scientists, academicians, policy makers and students in the field of biological sciences. The goal of this conference is to provide a common platform for researchers, academicians, and students to share their knowledge about the recent developments in the field of Biological Sciences, and its future prospects. The organizers would be pleased to host wide range of researchers from various disciplines of biological sciences across the country.

BOTANY

The conference of Botany began on 30th March, 2022 through Google Meet (<https://meet.google.com/qaj-kqkb-cev>). The session started with prayer by Ms. Gowri A. M. and Acharya Anusmaranam. Dr. Remesh Kumar S, Assistant Professor and Head, Dept. of Botany, welcomed the all the dignities, delegates and students. He also introduced the topic to the audience. Dr. Anila P Ajayan Post-Doctoral Researcher, State Key Laboratory of Freshwater Ecology and Biotechnology, Freshwater Algal Ecology Division, Institute of Hydrobiology, Chinese Academy of Sciences, Wuhan 430072, China was the resource person for the first session and delivered her talk on “Recent Trends in Phytoplankton Studies” Her lecture was worthy for our students in their future life. The session was concluded with the vote of thanks by Smt. Meera Shaji, Guest Lecturer, Department. of Botany.

The second technical section began after a short break. Dr. T.S. Swapna Professor and Head Department of Botany, University of Kerala Kariavattom, Thiruvananthapuram-695 581, Kerala. India was the speaker. The session started with the welcome note by Dr. Sushama Raj R V, Assistant Professor, Department of Botany Dr. Swapna delivered the lecture on topic “Sustainable utilization of plant resources- in vitro and in silico approaches”. Her talk definitely added knowledge to our delegates and students.

Third technical session included paper presentations from Botany discipline. The session was chaired by Dr. Kavitha K. R. Associate Professor, Dept. of Botany SN College, Chempazhanchy and Dr. Preetha T.S. Assistant Professor, Dept. of Botany University College, TVPM. 10 papers were presented in the session dealing with various aspects of Botany. Mr. Manu, Research Scholar, PG Department and Research Centre of Botany, Mahatma Gandhi College won the Best paper award in Botany Session.

Presentations: Botany

Chair: Dr. Kavitha K. R. Associate Professor, Dept. of Botany SN College, Chempazhanchy & Dr. Preetha T.S. Assistant Professor, Dept. of Botany, University College, TVPM

30/03/2022

1. Sreelekshmi J

Phytochemical Screening and In vitro Anticancer Activity of *Ipomoea pes-caprae* (L). R.Br. of Convolvulaceae

2. Soumya Jose
Determination of free radical scavenging activity of leaf extracts of *Terminalia chebula* Retizus (Combretaceae)
3. Ganga Johny
A comparative study on the bioplastic production from *Spirulina platensis* and *Manihot esculenta*
4. Farsana Salah. S
Preliminary Screening of Saponins from the Aerial Parts of *Anisochilus scaber* Benth
5. Aswathy Santhosh
Phytochemical investigation of *Cissampelos pareira* L. – a tribal medicine of Kerala
6. Varughese P. M
SBML as a Medium for the Representation the Data of the Biochemical Analysis of Wood Specimens of *Tectona grandis* Linn.
7. Susmitha R
Morphological and Pharmacological analysis of *Henckelia incana*(Vahl)Spreng
8. Mithraja M.J
General characteristics of the tribe Paniceae (Panicoideae, Poaceae)
9. Gayathri G
Pharmacognostic Standardization of Anti- inflammatory Medicinal Plants- *Premna serratifolia* L. and *Ipomoea pes-caprae* (L.)R.Br
10. Lekshmy Sreekumar
Physicochemical and Microbiological Evaluation of Water Quality of Sasthamkotta Panchayat
- 11 Dr. Nisha Rani D.
A study on the impact of different plant growth regulators on peroxidase production from the callus culture of the plant, *Tecoma stans*.

vmnsscollege - Calendar - Web | Meet - International Resear...

meet.google.com/aa-jkjb-ov?authuser=0

REC Anila P Ajeayan is presenting

Food & Pharmaceutical Industries

- *Chlorella, Nostoc, Spirulina*
- Natural products from algae have been widely explored- source of **fibre, minerals, antioxidants, vitamins, pigments**, steroids, lectins, halogenated compounds, polysaccharides, proteins, polyunsaturated fatty acids and other lipids; thus, they are even consumed in many countries.
- Rich and varied source of pharmacologically active natural products and nutraceuticals- carotenoids, phycobilins, fatty acids, polysaccharides, vitamins, and biologically active molecules for use in human and animal health
- Use of cyanobacteria (blue-green algae)- antibiotics
- Large ranges of products are being derived from algae which include; **Antimicrobials, Antivirals, Therapeutic proteins, drugs, Antifungals and many more**

Anila P Ajeayan

Dr. Manish Krishnan

Dr. Remeshkumar S

Principal VTM NSS College

You can't unmute someone else

Deivadath Dava

49 others

You

10:17 AM | International Research Conference on Rec...

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31°C Light rain

ENG 10:17 AM IN 3/30/2022

vmnsscollege - Calendar - Web | Meet - International Resear...

meet.google.com/aa-jkjb-ov?authuser=0

REC Swapna T Sukumaran is presenting

Medicinal Plants

- Production of traditional remedies in Ayurveda, Siddha, Unani, Homeopathy and also in Allopathy.
- Many of the traditional knowledge are **unexplored** and kept as **secret** within the particular tribal people.
- Many of medicinal plants now included in the **endangered** category.
- Endangered category could be conserved through *in vitro* conservation methods - **tissue culture**.
- **Suspension culture** used for the large scale production of secondary metabolites.
- **Vinblastine, Vincristine, Taxol, Digoxin, Azadirachtin** etc. are the examples of commonly produced secondary metabolites from suspension cultures.

DEPARTMENT OF BOTANY, UNIVERSITY OF EZRALA, THELVANANTHAPURAM

Swapna T Sukumaran

Dr. Remeshkumar S

Meera

manu varghese

Aswani achu

Adarsh J G

27 others

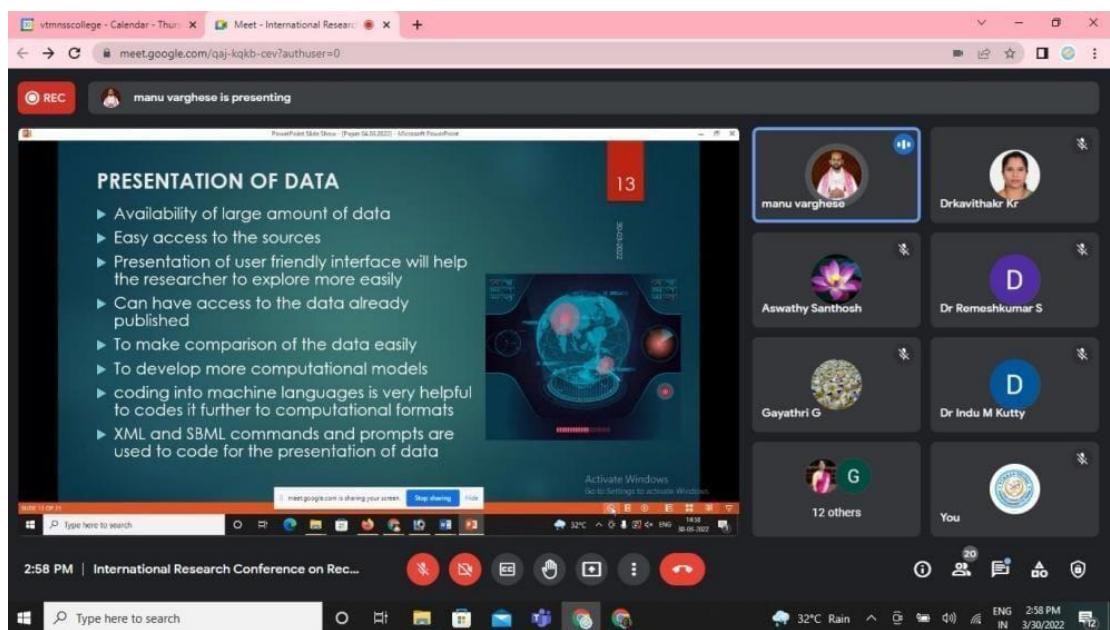
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ZOOLOGY

Next day, 31st March, 2022, the next technical session was started through Google Meet (<https://meet.google.com/qaj-kqkb-cev>). This session began with the lecture of Dr. Mohsin Sulaiman, Post-Doctoral Fellow Department of Nutrition and Health, College of Medicine and Health Sciences, United Arab Emirates University. She delivered a lecture on “Flavonoids as Potential Therapeutic agents for the management of Lifestyle Disease”. As an experienced nutritional specialist, she handled this session very well. With the help of her, our students came in to know about the exact importance of mushrooms. The session started with the welcome note of Dr. Gayathri Elayidom, Assistant Professor, Dept. of Zoology and ended with the vote of thanks by Dr. Maneesh K, Guest Lecturer, Department of Zoology.

Technical session was continued after the a tea break. This part included the invited lecture by Dr. Manju Y.K Senior Principal Scientist Division of Microbiology Central Drug Research Institute, Lucknow on “Story behind a new medicine: An introduction to drug research and development” She was introduced to the gathering by Dr. Indu M. Kutty, Assistant Professor and Head, Department of Zoology. The session steered the hearts of participants.

Third technical session of the second day included paper presentations from Zoology discipline. The session was chaired by Dr. Adhira M. Nair, Assistant

Professor, Dept. of Zoology, MG College, TVPM. 07 papers were presented in the session dealing with various aspects of Zoological Science. Best Paper Presentation award was shared by persons such as Ms. Hyzil B, Assistant Professor of Zoology, Govt. College for Women and Ms. Shibina A S, Research Scholar, Department of Zoology.

Presentations: zoology

Chair: Dr. Adhira M. Nair, Assistant Professor, Dept. of Zoology, MG College

30/03/2022

1. Hyzil J B

Preliminary FTIR spectroscopic and phytochemical analysis of the leaves of artemisia vulgaris

2. Geethu Gopal

Length weight relationship of *Europlus maculatus* from vellayani lake, Thiruvananthapuram

3. Lekshmi.R

Antioxidants in *Culex quinquefasciatus* is up regulated in response to temperature stress

4. Tessa Augustianath

Biochemical changes in a developing chick embryo in response to electromagnetic radiation from cell phone

5. Shibina A S

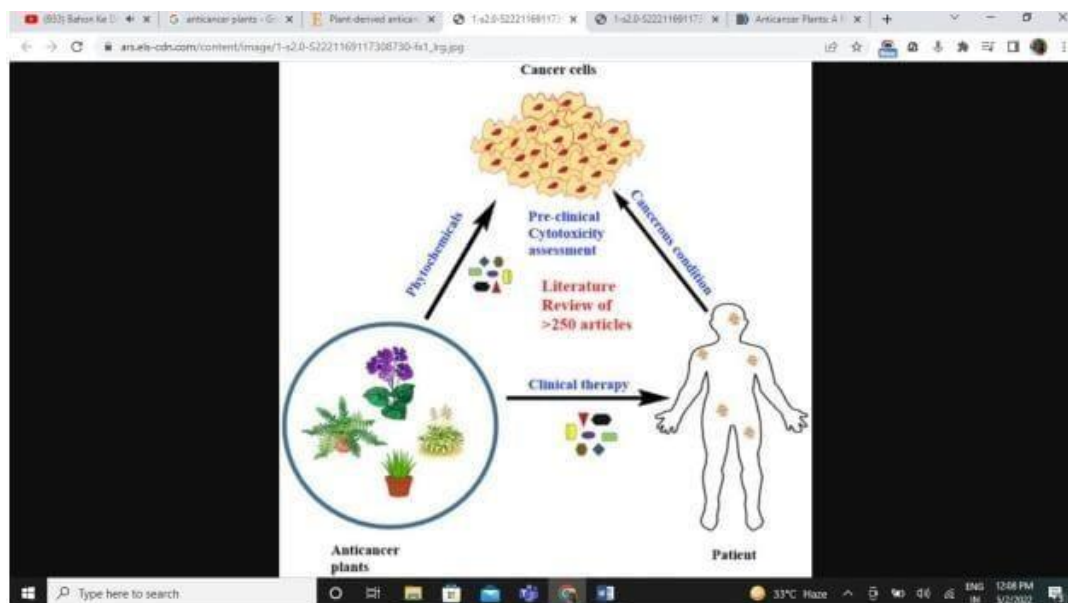
Diversity of collembola in different ecosystems of Thiruvananthapuram forest division, Kerala

6. Athira.V

Niche partitioning of *Heteropneustes fossilis* from Vellayani lake, Kerala, India

7. Soumya.S.Das

Phytochemical analysis and toxicity study of *Annona muricata* against rice pest, *Leptocorisa oratorius*



Feedback

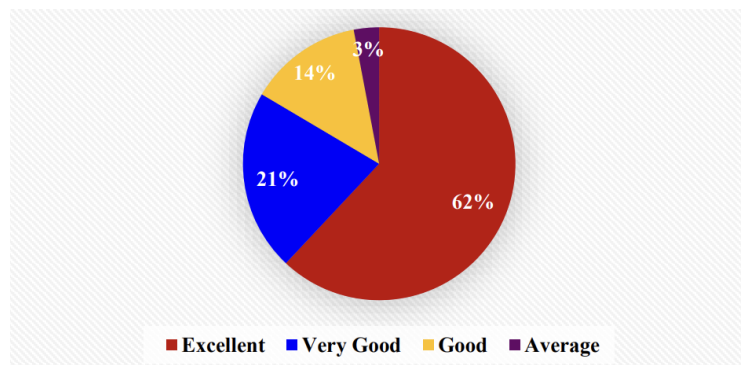
The feedback was collected after each day and analysed. All the stakeholders submitted their valuable feedback on the conference. Their rating was as follows. Out of overall responses, 75% rated excellent, 15.5 % very good and 9.5 % rated as good.

Overall Rating on ICRTBS 2022

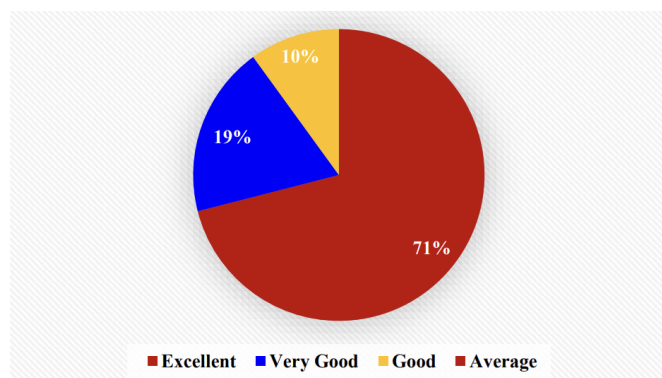


Feedback on resource persons

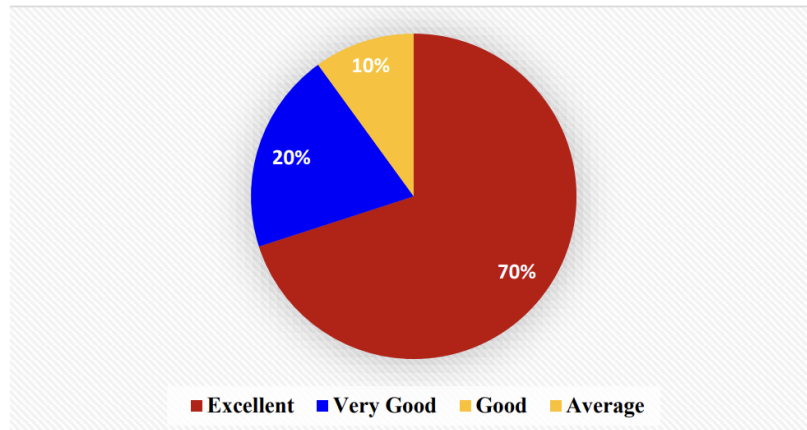
Technical Session 01 : “Recent Trends in Phytoplankton Studies” by Dr. Anila Ajayan



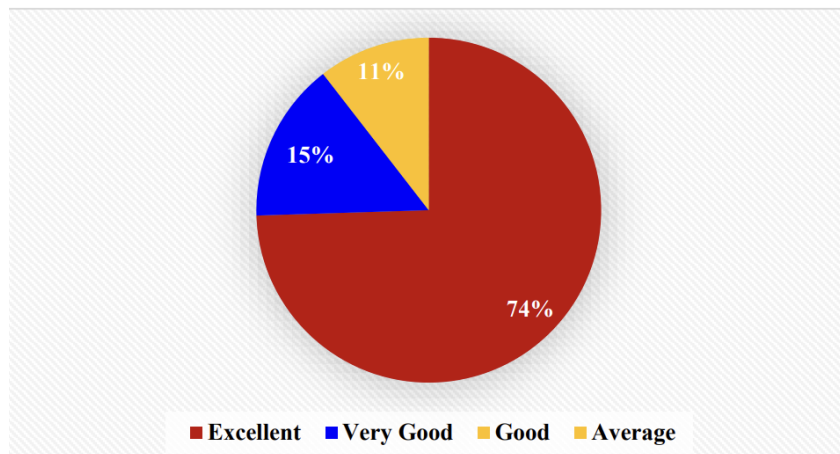
Technical Session 02 : “Sustainable utilization of plant resources- in vitro and in silico approaches” by Dr. Swapna T S.



Technical Session 03 : “Flavonoids as Potential Therapeutic agents for the management of Lifestyle Disease” by Dr. Mohsin Sulaiman.



Technical Session 04 : “Story behind a new medicine: An introduction to drug research and development” by Dr. Manju Y. K.



The workshop was attended by 168 participants. It is the privilege of the organizing committee to note that the conference was highly appreciated and accepted by the participants because it succeeded in achieving its goal.

4. International Research Conference on Current Trends in Language and Literature (IRCCTLL) 2022

Departments of English, Malayalam, Hindi and Tamil, VTMNSS College Dhanuvachapuram together Conducted International Research Conference on Current Trends In Language And Literature (IRCCTLL) as part of Annual Research Conference of Science, Social Science, Commerce, Arts And Literature (ARCSSCAL). The Topic for this year has been Cyber Literature.

ENGLISH

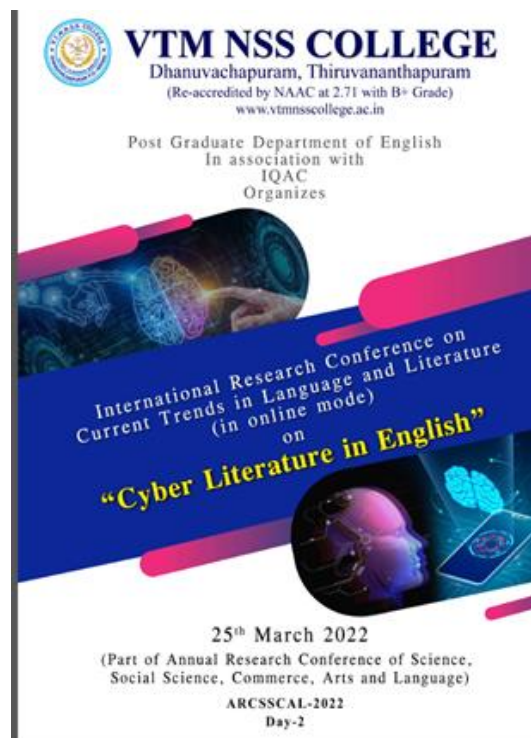
Department of English, VTM NSS College Dhanuvachapuram conducted International Research Conference on Current Trends in Language and Literature (IRCCTLL) on 25th March 2022 as part of Annual Research Conference of Science, Social Science, Commerce, Arts and Language (ARCSSCAL). The topic for this year has been Cyber Literature. The conference has decided to focus on how the boundaries of traditionally conceptualized margins of literature have expanded and to analyze the character and developments in cyber literature. Mr. J.I. Abbot, who is Professor of English and Philosophy at Tunxis Community College in Farmington, CT, USA, delivered the inaugural address. Mr. Abbott who is also a poet, singer-songwriter, comic, essayist and translator introduced the concept of cyber literature. He also detailed on human element in cyber space. Mr. Keshab Sigdel, faculty of English at Central Department of English at Tribhuvan University, delivered the next session titled “Who Goes Along and Who’s Left? Literature in the Age of Digital Humanities”. He talked about political stances of cyber space and the question of digital divide. The next session was titled “From Text to Hypertext: Exploring the Modern Trends in Cyber Literature” which was about recent developments in creative sphere of cyber spaces. It was delivered by Dr. Madhavi Nikam who is Professor at the PG Department of English, R. K. Talreja College, Ulhasnagar, Thane, Mumbai. The last session was by Samya Brata Roy, PhD student in the Department of Humanities and Social Sciences at IIT Jodhpur and a HASTAC scholar from 2021 to 2023. His session “This Thing Called E-Lit” detailed about cyber literature in Indian context. Ms. Anila Chandran, Assistant Professor, Department of English, VTM NSS College, Dhanuvachapuram posed as Master of Ceremony. After the sessions, paper presentations of scholars and academics were conducted.



Presentations: English

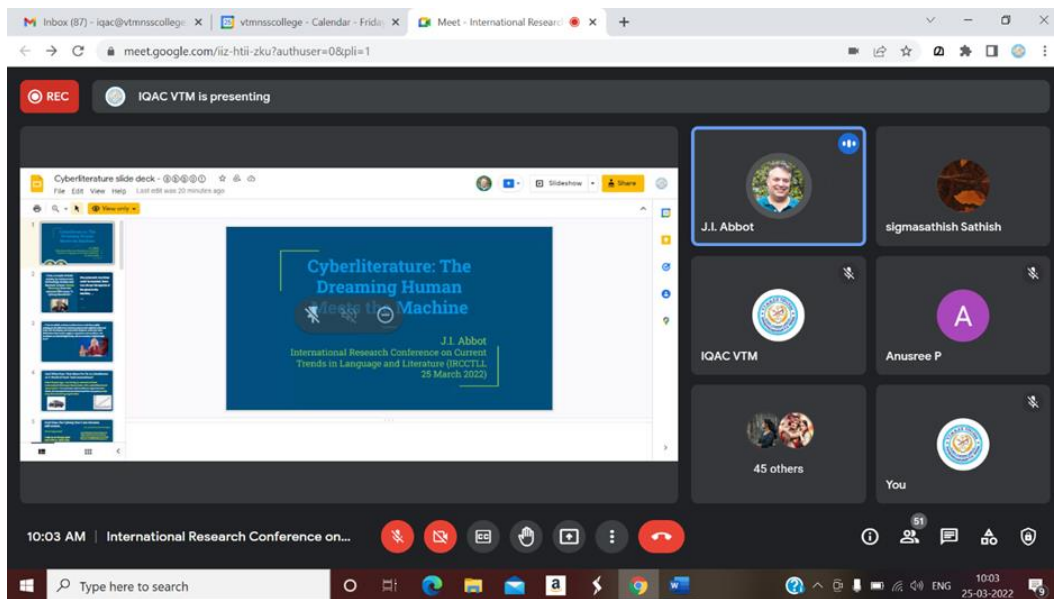
Six papers were presented in the afternoon session of the conference. The audience and presenters actively took part in discussion about the papers presented and topics discussed. The session was chaired by Parvathy G, Assistant Professor, Department of English, VTM NSS College, Dhanuvachapuram.

1. Shyamprasad R, Research Scholar, Department of Humanities, Indian Institute of Space Science and Technology, Thiruvananthapuram, Kerala.
A Transnational Study of Benyamin’s Novels

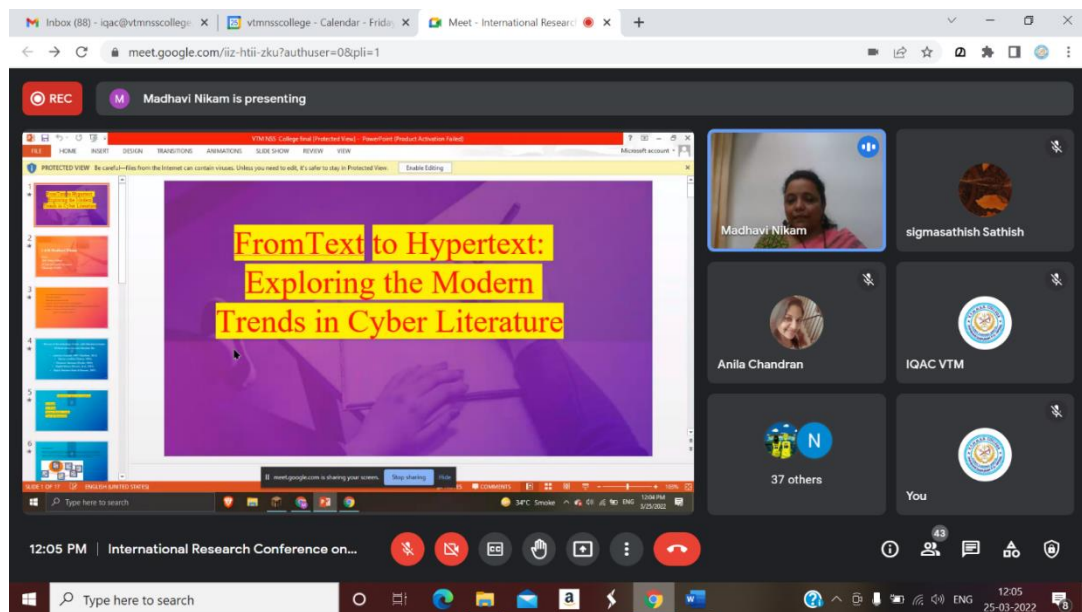
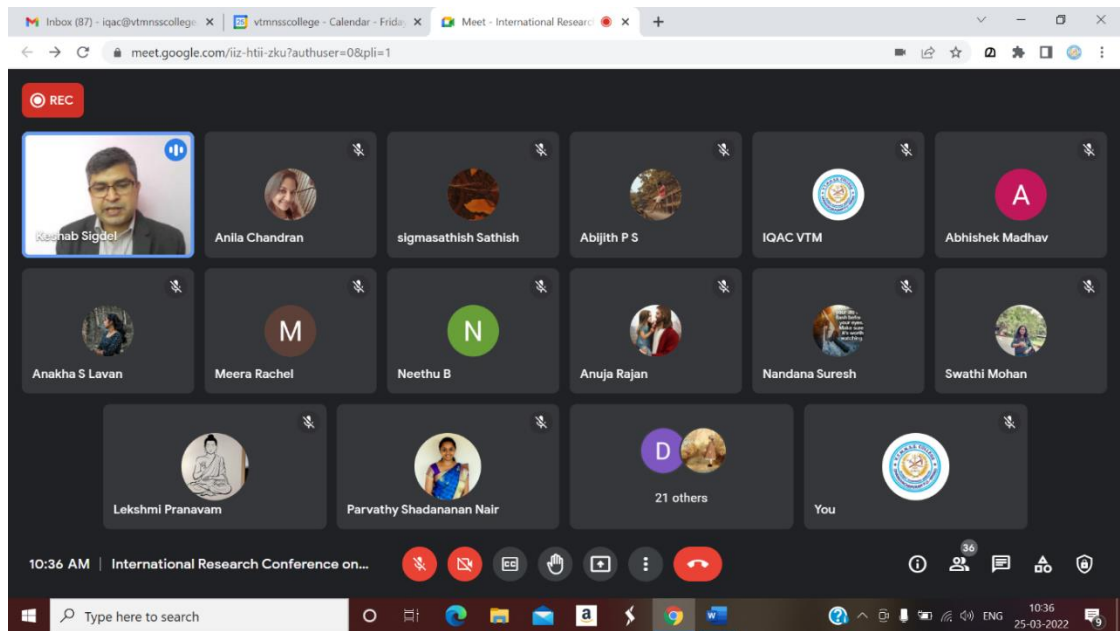
2. Mohammed Shafeer K P, PhD Research Scholar, Department of English, Thiruvalluvar University, Vellore, Tamilnadu. & Dr B Kathiresan, Professor & Head Department of English, Thiruvalluvar University, Vellore, Tamilnadu
Cyberculture and Identity Construction: Impact of YouTube and the Changing Aesthetics of Kerala Youth.
3. Dr Archana V, Assistant Professor, Department of English, Sree Kerala Varma College, Thrissur, Kerala. Digital Literature: Occupying the Giant Third Space and Challenging the Traditional Notion of the 'Text'
4. K G Aiswarya Jyothi, PhD Research Scholar, Department of English and Languages, Amrita School of Arts and Sciences, Kochi, Kerala.
Indian Advertisements and New Marketing Narratives in YouTube During COVID-19 Pandemic: Content Analysis.
5. Minu Melwen, Guest Faculty, All Saints' College, Thiruvananthapuram, Kerala. Creation or Generation? An Analysis of Digital Poetry Generation.
6. Swathi M B, Research Scholar in English,
Sree Sankara College, Kalady, Kerala. Transcending the Frontiers of Cyber Space: Instagram Poetry as an Agency of Democratization

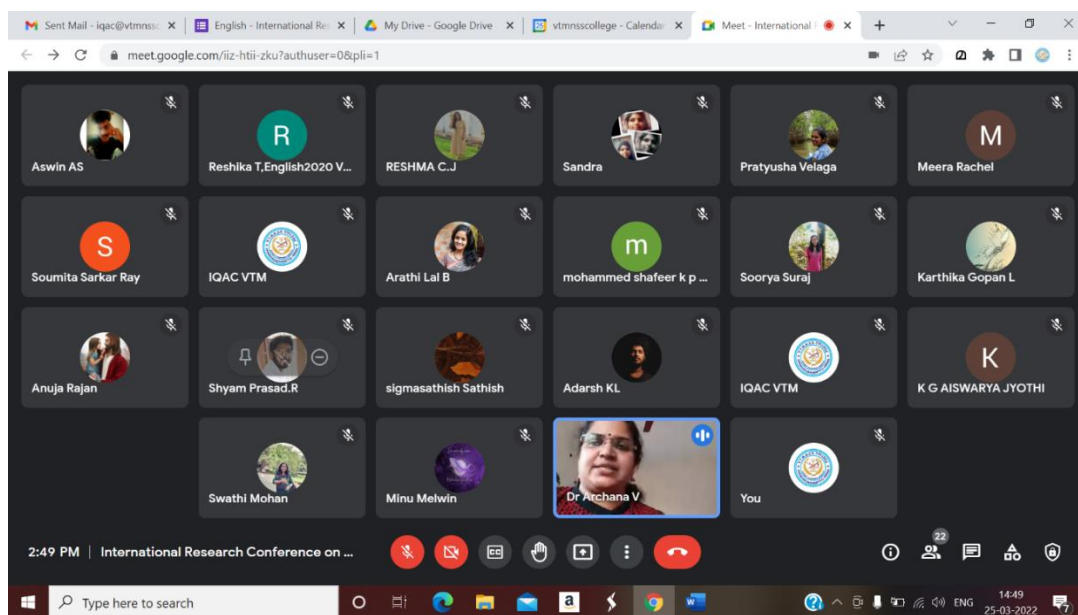
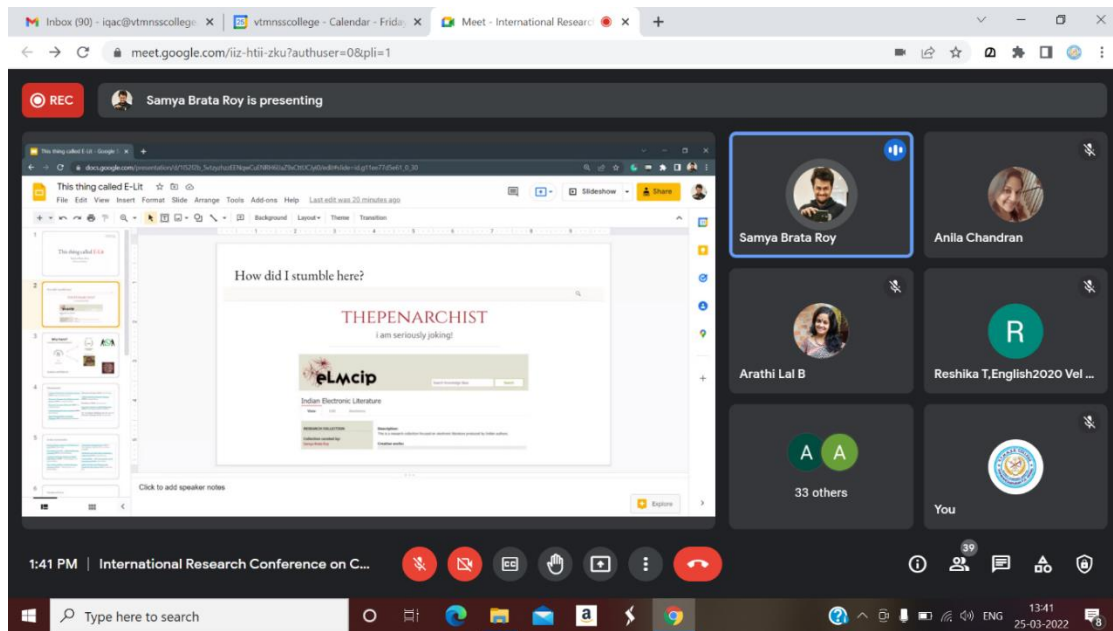


<p>INAUGURAL ADDRESS:</p>  <p>Mr. J.I. Abbot is Professor of English and Philosophy at Tunxis Community College in Farmington, CT. A poet, singer-songwriter, comic, essayist, and translator with a focus on the links connecting the philosophy of religion, philosophy of science, and poetics, Abbot completed an MFA in Literary Arts at Brown University and a BA in Languages and Literature at Bard College. His collection of poems, <i>An Argument of Dreams</i>, will be released in 2023. His writings have appeared in <i>Abstract</i> magazine, <i>orbis</i>, <i>The Jerusalem Post</i>, <i>Modern Poems on the Bible</i>, <i>Tricycle</i>, <i>The Buddhist Review</i>, <i>Parabola</i>, <i>Philosophy and Breaking Bad</i>, and many other publications.</p> <p>KEYNOTE SPEAKERS:</p> <p>Mr. Keshab Sigdel is a creative writer, editor, translator and an academic based in Kathmandu. He is currently a faculty of English at Central Department of English at Tribhuvan University. He is the Author of <i>Samaya Bighatan</i> (Dissolution of Time, 2007), <i>Colour of the Sun</i> (Slovenia, 2017) and editor of <i>An Anthology of Contemporary Nepali Poetry</i> (Big Bridge USA, 2016). He also co-edited many literary journals. Sigdel is the recipient of the Bhanubhakta Gold Medal (Culture Ministry of Nepal, 2014), Kalashree Srijana Puraskar (2015), Rock Pebbles Literature Award (India, 2016) and Sasidhri Rasthya Kalashree Puraskar (2022).</p>  <p>Dr. Madhavi Nikam is a Professor at the PG Department of English, R. K. Talreja College, Ulhasnagar, Thane, Mumbai. She is a recognized research guide for Ph.D in English, University of Mumbai. Dr. Nikam was the editor of two international Journals, "Literary Insight" and "Contemporary Discourse". Her contribution to research continues as the Secretary of Higher Education & Research Society, Navi Mumbai. Presently, she is a member of the Academic Council (2017-2022) of the University of Mumbai.</p>  <p>SPEAKER:</p> <p>Mr. Samya Brata Roy is a Ph.D student in the Department of Humanities and Social Sciences at IIT Jodhpur and a HASTAC scholar (2021-23). His interests lie in and around Literary Studies, Digital Humanities, Remediation, Pedagogy and Promoting Access via Networks. His other roles include filling in as a Technical Advisory Member with Humanities Commons, as the facilitator of Digital Objects and Media special interest group with Digital Humanities Alliance for Research and Teaching Innovations, as a transcriber with The Canterbury Tales Project, as a Liaison with The Association for Computers and the Humanities and as the founding member of Electronic Literature India.</p> 	<p>PROGRAMME SCHEDULE 26/03/2022</p> <p>Keynote Speakers:</p> <ol style="list-style-type: none"> 9.30 am -10.00 am: Inaugural Address Mr. J. I. Abbot, Professor of English and Philosophy, Tunxis Community College, Farmington, USA. (Welcome Address: Dr. Sigma G.R., Vote of Thanks: Ms. Parvathy G) 10.30 am-11.30 am: "Who Goes Along and Who's Left? Literature in the Age of Digital Humanities" Mr. Keshab Sigdel, Faculty of English, Tribhuvan University, Nepal (Welcome Address: Ms. Anila Chandran, Vote of Thanks: Dr. Meera Rachel Selvaraj) 12.00 pm – 1.00 pm: "From Text to Hypertext: Exploring the Modern Trends in Cyber Literature" Dr. Madhavi Nikam, Professor, PG Department of English, RK Talreja College, Thane, Mumbai. (Welcome Address: Ms. Shama Pilal, Vote of Thanks: Ms. Aswathy G) 	<p>Speaker</p> <p>4. Time 1.30 pm- 2.30 pm: "This Thing Called E-Lit" Mr. Samya Brata Roy HASTAC scholar and PhD Scholar, IIT Jodhpur (Welcome Address: Ms. Arathi Lal B, Vote of Thanks: Ms. Anila Chandran)</p> <p>Paper Presentations from 2.30 pm onwards (Chair: Ms. Parvathy G, Assistant Professor, Department of English, VTM NSS College, Dhanuvachapuram). Master of Ceremony: Ms. Anila Chandran, Assistant Professor, Department of English, VTM NSS College, Dhanuvachapuram</p> <p>CONFERENCE COMMITTEE:</p> <p>Dr. V.M.Anandakumar, Principal, VTM NSS College, Dhanuvachapuram Dr. Sigma G.R., HoD, Department of English Ms. Parvathy G., Assistant Professor, Department of English (Coordinator) Ms. Saranya K.V., Assistant Professor, Department of English (Coordinator) Ms. Aswathy G., Assistant Professor, Department of English (Coordinator)</p> 
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The screenshot shows a Google Meet interface during a presentation. The main window displays a slide titled "Cyberliterature: The Dreaming Human" with the subtitle "Reimagining the Machine". The slide also mentions "J.I. Abbot International Research Conference on Current Trends in Language and Literature (IACCTLL, 25 March, 2022)". The right-hand side of the screen shows a grid of participants, including J.I. Abbot, sigmasathish Sathish, IQAC VTM, Anusree P, and 45 others. The bottom of the screen shows the Windows taskbar with the time 10:03 AM and date 25-03-2022.





MALAYALAM

The conference was conducted on 24th March 2022 in association with research committee and IQAC. It had two sessions. Morning session started at 10 am and was chaired by Dr. Bettymol Mathew, Assistant Professor & Head, Department of Malayalam, VTM NSS College. Five invited talks were conducted. Invitees were popular figures in the world of cyber literature and cyber literal studies. Mr. Thampi Antony Thekkekk, Writer actor, producer and

popular figure in cyber Malayalam delivered the talk on Ezhuthukarum Cyber Sahityavum (Writers and Cyber Literature). Dr.S.S.Lal, Professor &Head of Public health,Global Institute Of Public Health, U.N.Consultant, who is an Eminent Doctor working in the field of Community Health and very popular in cyber writings delivered talk on Cyber Ezhuthu Anubhavangal Pravasa Jeevithathil (Cyber Writing in the Context of Emigrants' Life). The third session was delivered by Dr. Arya A S. She is a scholar in cyber literature studies and she focused on the Theoretical analysis of cyber literature as a whole and her topic was Cyber Sannidhyavum Bhavukathwavum. (Presence and Aesthetics of Cyber Literature) Dr.C.Udayakala,Assistant Professor,Dept. of Malayalam,All Saints College,Thiruvananthapuram talked on the topic Cyber Lokavum Malayala Cherukadhayam (Malayalam Short Stories and Cyber World). Dr. Lalu S Kurup, Assistant Professor, Dept. of Malayalam,Mannam Memorial N S S College Kottiyam discussed about Cyber Lokathe Mali Chithrangal (Representation of MALI in cyber world) The first session ended at 12.30 pm.

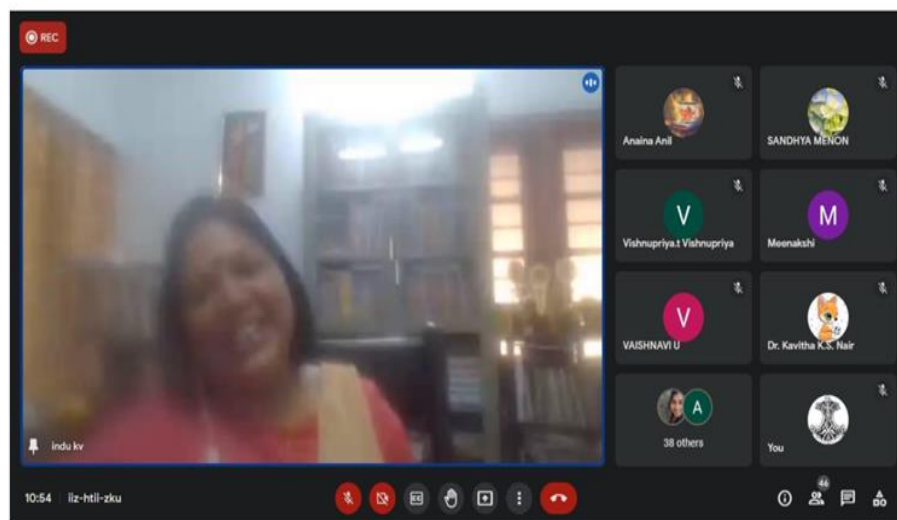
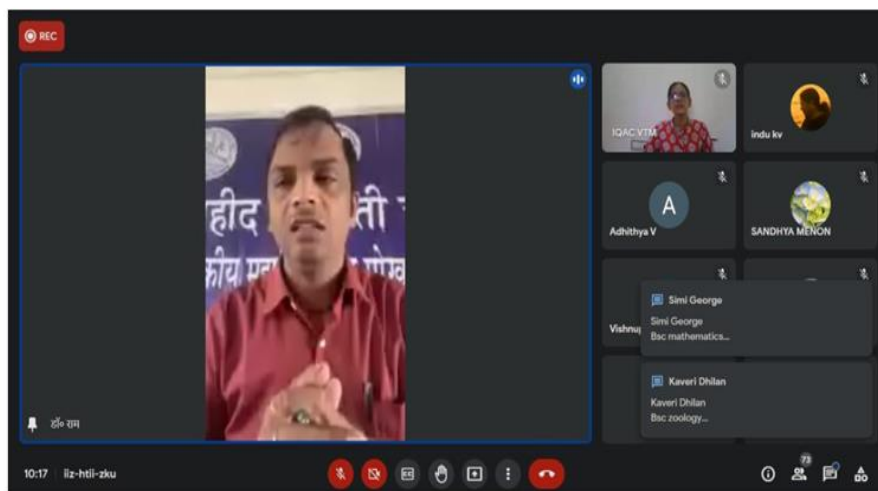
Second Session, the paper presentations, started at.1.30 pm. It was chaired by Dr Anupama M. Assistant Professor, Dept of Malayalam. VTM NSS College. Cyber space as a whole and genres in cyber space were studied separately. Cyber Novel, Short stories, Poetry, Memories etc were deeply analysed. Ten research papers were presented by the Research scholars from various centres.

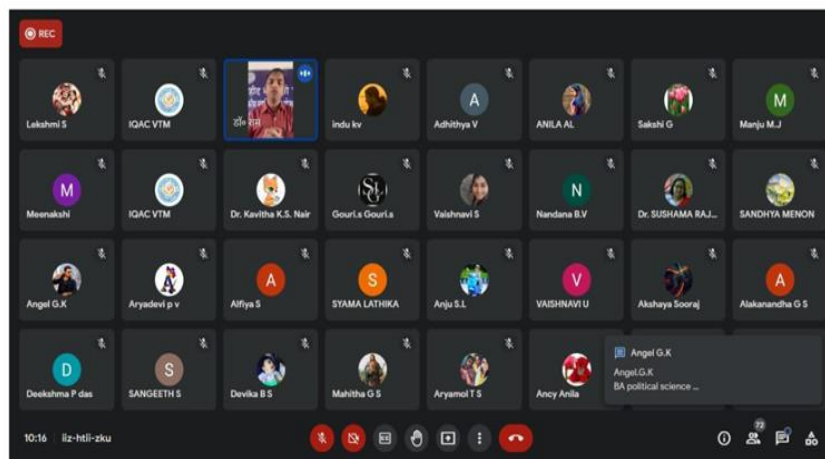
1. Dr. Smitha Prakash, Asst.professor, Dept of Malayalam, S.N.College, Kollam.
Kadhayil Vachalamakunna Cyber Idangal
2. Vishnu Krishnana. R, Research Scholar, Kerala University.
Cyber Idavum Apasarppaka Bhavanayum
3. Akhila G, Research Scholar, Kerala University.
Cyber Kadhakalile Bhashayum Avatharanavum
4. Ammu. A. S, Research Scholar.Kerala University.
Malayala blog kavithakalile bhavukathwa savishesathakal
5. Sarika Suresh
Cyber Idangalile Chalachithra Niroopanam: Sadhyathayum Parimithiyum
6. Haritha S.R.
Cyber Idangalude Laavanyathmakathayum Trans Media Sadhyathakalum
7. Tony L.M.
Cyber Idathile Sthree Kavithakal

HINDI

As part of ARCSSCAL 2022 Department of Hindi in association with research committee and IQAC has conducted a National Conference titled Cyber Literature in Hindi on 26 th March 2022. Dr. Ram Bharose, Assistant Professor of Hindi, Government degree college, Pokhri (Quili), Tehri Garhwal, Uttarakhand has delivered a talk on 'Cyber Patrakarita' and Dr. Indu K.V, Assistant Professor of Hindi, SDE, Kerala University, Karyavattom Campus has delivered a talk on 'Cyber Kavitha.' Dr.Dhanya L, Assistant Professor of Hindi, K S M D B College, Sasthamcotta has presented a paper on the topic - 'Cyber Alochna: Giriraj Kishore ke Upanyas Swarna Mrug ke Pariprekshya mei'. Sri. Aneesh R, Research Scholar, Department of Hindi, Kariavattom Campus, Kerala University has presented a paper on 'Samkaleen jeevan antharjaal mei: Internet, Sonali aur Subeemal master kahani ke sandarbh mei'. Ms.Devipriya O, MPhil Student, Department of Hindi, University College,Tvm has presented a paper on 'Akansha Yadav ki lakhu kavitha Ek ladki mei abhivyakt nari samvedana'. Seventy-two participants attended the conference in which about sixty-five participants were students from different colleges.

 <p>VTM NSS College, Dhazuvachapuram, Thiruvananthapuram Accredited by NAAC with B+ Grade, CGPA 2.71</p> <p>As part of ARCSSCAL-2022 Annual Research Conference of Science, Social Science, Commerce, Arts and Language Department of Hindi In association with IQAC</p> <p>invites you to International Research Conference on Current Trends in Language and Literature (IRCCTL) हिन्दी का सैबर साहित्य</p>	<p>Date: 26.03.2022 Programme Schedule</p> <p>Talk 1 – 10:00 to 10:45 am Topic - 'Cyber Patrakarita' Resource Person: Dr. Ram Bharose Assistant Professor (Hindi), Government Degree College, Pokhri (Quili), Tehri Garhwal, Uttarakhand</p> 	<p>Talk 2 – 10:45 to 11:30 am Topic - Cyber Kavitha Resource Person: Dr Indu K V Assistant Professor of Hindi, SDE, University of Kerala, Karyavattom, Thiruvananthapuram</p>  <p>1:30 PM- Presentation session Chair, Dr. S R Jayasree, Associate professor, Department of Hindi, Kerala University, Karyavattom Campus, Thiruvananthapuram</p> <p>Convenors:</p> <ul style="list-style-type: none">• Dr. Susmitha O.V• Dr. Dhanya U
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TAMIL

As part of ARCSSCAL 2022 Department of Tamil in association with research committee and IQAC has conducted a International conference titled Cyber Literature In Tamil on 26th March 2022. Dr.Kingston palthamburaj Faculty of Languages and communication University pendidikan Sultan Idris (UPSI) Malaysia has delivered a talk on ‘Kaniniyum Tamizhum’ and Dr.Hepsy Rose Mary.A, Assistant Professor in Tamil, University of Kerala, Kariavattom Campus, Thiruvananthapuram has delivered a talk on ‘Min Akarathikalum Payanpadum’ . More than 50 participants attended the conference Most of them are college professors and research various college students and maximum of university college Teachers.

Presentations: Tamil

1. Dr. Kingston Pal Thamburaj, Senior Lecturer, Faculty of Languages and Communication, Sultan Indris Education University, Malaysia
Online Teaching for Tamil Language
2. Dr. Hepsy Rose Mary A, Assistant Professor, Kerala University, Thiruvananthapuram
Inaya Ilakkiyam Minnagarathikalum
3. Dr. K Prabakaran, Research Scholar Kerala University, Thiruvananthapuram
Inayathil Thamizhilakkiyam Oor Arimugam
4. Dr. Gna Chrity, Tamizh Aarvalar, Kuzhithurai, Kanyakumari
Inayam Thodarvana Maanadukal Karutharangugal
5. R Rekha, Research Scholar, S T Hindu College, Nagercoil.
Inayavazhi Thamizh Kavithaikal
6. Dr. A Delbin, Assistant Professor in Tamil, Womens Christian College, Nagercoil.

Uyirasai Inaya Thamizh Kkavithaikal Samuthaya

7. Dr. Jeslin Nima J M, Assistant Professor in Tamil, Womens Christian College, Nagercoil.
Oodaru Thamizhinaya Ithazh Chirukathaikalil Penkalin Mananilai
8. Dr. Jeyasangar J, Assistant Professor in Tamil, Govt. College- Munar, Idukki.
Kalivithurayil Inayam (Kanini)
9. Dr. D Sheeja, Assistant Professor, Womans Christian College, Nagercoil.
Kattal Karpithalil Inayamum Kaniniyum.
10. Dr. D Savitha, Poo. Sa. Ko. Krishnammal, Women's Colleges Coimbatore Karali
Kalai Ilakkiya Inayathala Kurunrathaikalum or Ukthikalum
11. Dr. Rajesh Ravi, Assistant Professor in Tamil, Adithanar College, Thiruchendur
Keetru Thalathil Velivantha Satheesh Kumaran Kavithaikal Oru Mathippeedu.
12. K Sheeba, Research Scholar, S.T. Hindu College, Nagercoil
Samooga Nokkil Yaazh Inaya Valaithalam
13. Dr. S Thenmozhy, Assistant Professor in Tamil, Women's Christian College, Nagercoil
Sahaa Varam Petrathu Tamizh.
14. Dr. Lekshmi C, Cheruvalli Kunnathu Veedu, Thattinakam, Nalanchira, Thiruvananthapuram
Tamizh Ilakkiya Valarchiyum Inayamum
15. U Subramaniyan, Assistant Professor, St. Saverior B. Ed College, Palayankottai, Thirunelveli
Thamizhil Inaya Ilakkiyangal
16. Dr. Santhi P, Assistant Professor in Tamil, University College, Thiruvananthapuram
Tamizh Minnithazhkalil Ilakkiyappani
17. Dhinesh P, Research Scholar, University College, Thiruvananthapuram
Thamizhmozhy Katralil Inayathin Pangu
18. A Benila Joy, Research Scholar, Kerala University, Kariavattom, Thiruvananthapuram
Thamizh Valai Ulagamum Inayavazhi Thamizh Kalviyin Payanpaadukalum.
19. Dr. K.L Anbukala, Assistant Professor, Mar Ivanious College (Autonomous), TVM
Thamizhilakkiya Valarchiyil Valayoliyin Pangu
20. Dr. S Shini, Assistant Professor in Tamil, University College, Thiruvananthapuram

Pathivukal Minnithazh Kattum Balya Kalathu Snehithi Muhammad Basheerin Balya
Kala Sahi – Oar Oppeedu

21. P Velkuthalam, A.S.T. Tamizh Govt College, Chinnakkanal, Suryanelli, Munnar,
Idukki

Pulanathil Iniya Thamizh

22. Dr. K Umamageswari, Assistant Professor, Poo. Sa. Ko Ara Krishnammal Women's
College, Coimbatore

Thirayisayil Uzhaippalar Ulagamum Inithu Inaya Ithazh Vivasayamum.

23. Dr. H Malarmozhi, Assistant Professor in Tamil, Thiruthangal Naadar College,
Chennai Makkal Vazhvil Inayam

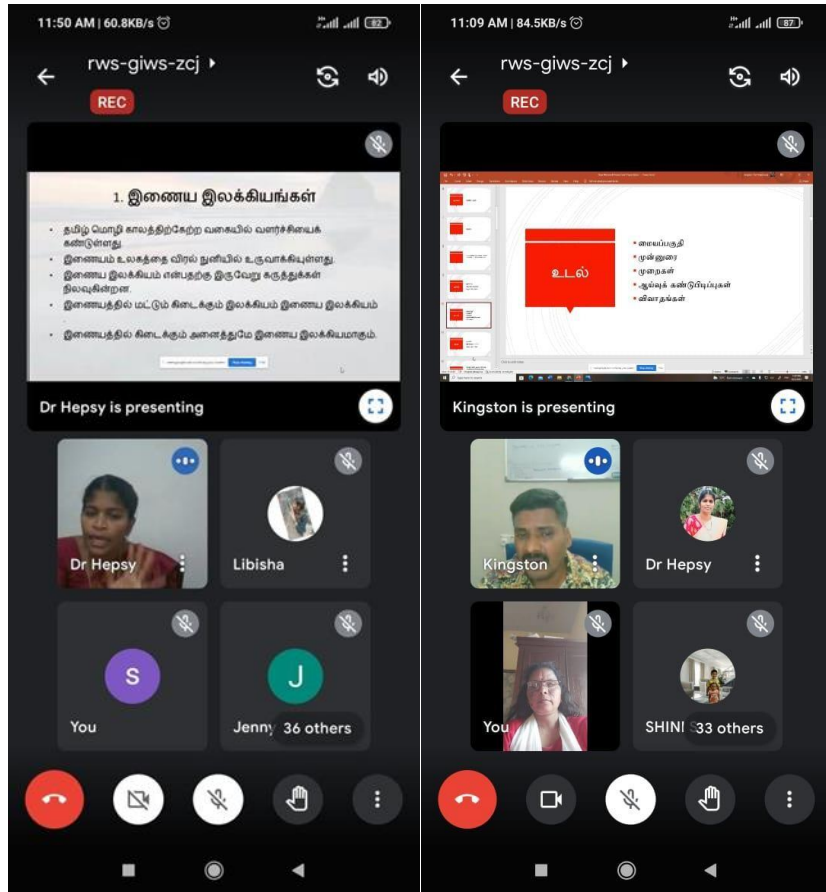
24. Dr. Punitha Salom Jeevi, Assistant Professor in Tamil, Women's Christian College,
Nagercoil

'Vanam' Thamizhinaya Ithazh Chirukathaikalil Samuthaya Cheythikal.

25. Gna. Thiyagarajan, Research Scholar, Tamil Department, Thiyagarajar College,
Madurai

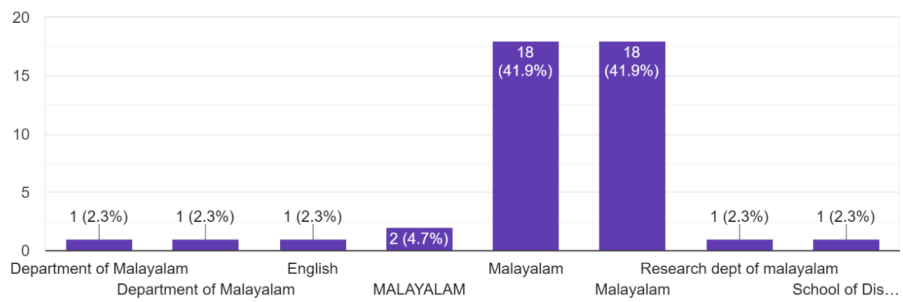
Naveena Ilakkiya Valarchikku Inayathin Pangu

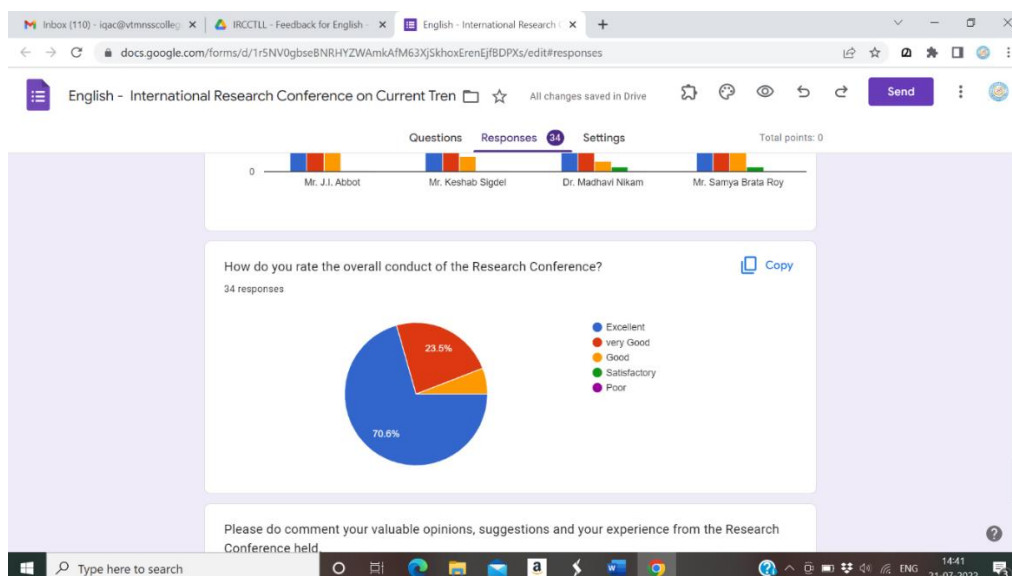
 <p>VTM NSS College, Dhanuvachapuram, Thiruvananthapuram Accredited by NAAC with B+ Grade, CGPA 2.71</p> <p>As part of ARCSSCAL-2022 Annual Research Conference of Science, Social Science, Commerce, Arts and Language Department of Tamil In association with IQAC</p> <p>invites you to International Research Conference on Current Trends in Language and Literature (IRCCILL) CYBER LITERATURE IN TAMIL</p>	<p>Date: 26.03.2022 Programme Schedule</p> <p>Talk 1 – 10:30 to 11:30 am Topic - 'Kaninium Tamizhum' Resource Person: Dr. Kingston Palthamburaj Faculty of Languages and Communication University Pendidikan Sultan Idris (UPSI) Malaysia</p> 	<p>Talk 2 – 11:30 am to 12:30 pm Topic - Min Akaraathikalum Payanpadum Resource Person: Dr. Hepsy Rose Mary. A Assistant Professor in Tamil, University of Kerala, Karyavattom Campus, Thiruvananthapuram</p>  <p>1:30 PM- Presentation session Chair, Dr. T Muthulekshmi, Department of Tamil, Kerala University, Karyavattom Campus, Thiruvananthapuram Convenor: Dr.O Ajitha Kumari</p>
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Feedback

Department
43 responses





5. International Research Conference on Commerce & Management (IRCCM) 2022)

VTMNSS College, Dhanuvachapuram, Thiruvananthapuram, PG Department of Commerce in association with IQAC organized the webinar on " IRCCM -2022 - Designing Research in New Normal" for faculties and research scholars. The Webinar “Designing Research in New Normal” was held on 24 March 2022 and 25 March 2022 from 6 pm to 8 pm in Google Meet.

Objectives

1. To encourage research interest among research scholars
2. To exchange information regarding various aspects of recent trends in Research.

Day 1 (24 March 2022)- The resource person for the Webinar was Dr. P.N Hari Kumar, Professor, School of Business managements and legal Studies, University of Kerala. The resource person honorable Dr.P .N Hari Kumar sir highlighted the basic knowledge of research methodology.

Day 2 (25 March 2022)- The resource person for the Webinar was Dr. Mariam Anil, Assistant Professor, Department of Management, College of Commerce and Business Administration, Dhofar University, Salalh Oman. The resource person honorable Dr. Mariam Anil madam highlighted the differences and examples between mediator and moderator.

All the research scholars and the faculties of the department took part in the webinar. This interactive webinar was delivered using the Google Meet Platform. The webinar enriched valuable knowledge regarding research prospects. The queries of the participants were clarified very well at the end of the session.

Correspondence

Dr. Manjula K.G

Programme Co-ordinator,
Department of Commerce
WhatsApp No: 9645001516

Dr. Sumesh .G.S

Co-ordinator,
PG Department of Commerce
WhatsApp No: 9447855544

Mr. Ratheesh. R.J.

Co-ordinator,
PG Department of Commerce
WhatsApp No: 9446791648

Organizing Committee

- Dr. V.M. Anandakumar (Principal)
- Ms. Shama Pillai (Co-ordinator , IQAC)
- Dr.Manjula.K.G (Programme Co-ordinator,
Head & Assistant Professor)
- Dr. Kalarani .T.G
- Mr.Ratheesh .R.J.
- Dr.S.Priya
- Dr.Sumesh .G.S.
- Dr. Hari.K.
- Dr. Gopika.G.G.
- Dr. Remya Krishnan. G.R.
- Adv. Rajarajan

VTM NSS COLLEGE

Dhanuvachapuram, Thiruvananthapuram
(Accredited by NAAC with CGPA 2.71 at B⁺ Grade)
www.vtmnsscollege.ac.in

ARCSSCAL-2022

(Annual Research Conference of Science,
Social Science, Commerce Arts and Language)



IRCCM - 2022

(International Research Conference on Commerce and Management)

DESIGNING RESEARCH IN THE NEW NORMAL

2022 March 24, 25
Platform : Google Meet

Organised by

Post Graduate Department of Commerce
in association with IQAC
(Internal Quality Assurance Cell)

Please Click here to register

<https://forms.gle/UHG62SN95kapWXMk9>

About College

The Nair Service Society established VTM NSS College in 1964 in commemoration of the great freedom fighter Thalakkalathu Velu Thampi Dalawa on the occasion of his 200th birth anniversary. The college is affiliated to the University of Kerala and accredited with B⁺ Grade (CGPA 2.71) by NAAC. The college offers 11 UG & 4 PG Programmes. Our research committee aims to inculcate research aptitude among the faculty, research scholars and students. It encourages research interest among faculty and the exchange of information regarding various aspects of recent trends in research. Research committee always tries to update the recent trends in Science & Technology, Social science, Literature and Commerce.



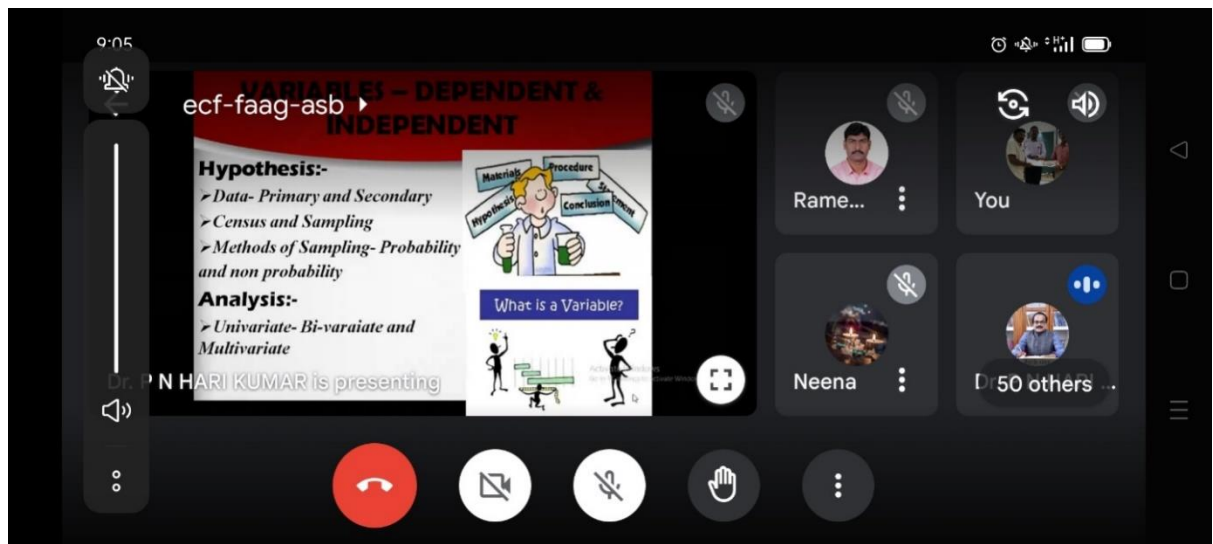
Day 1 - 24/03/2022

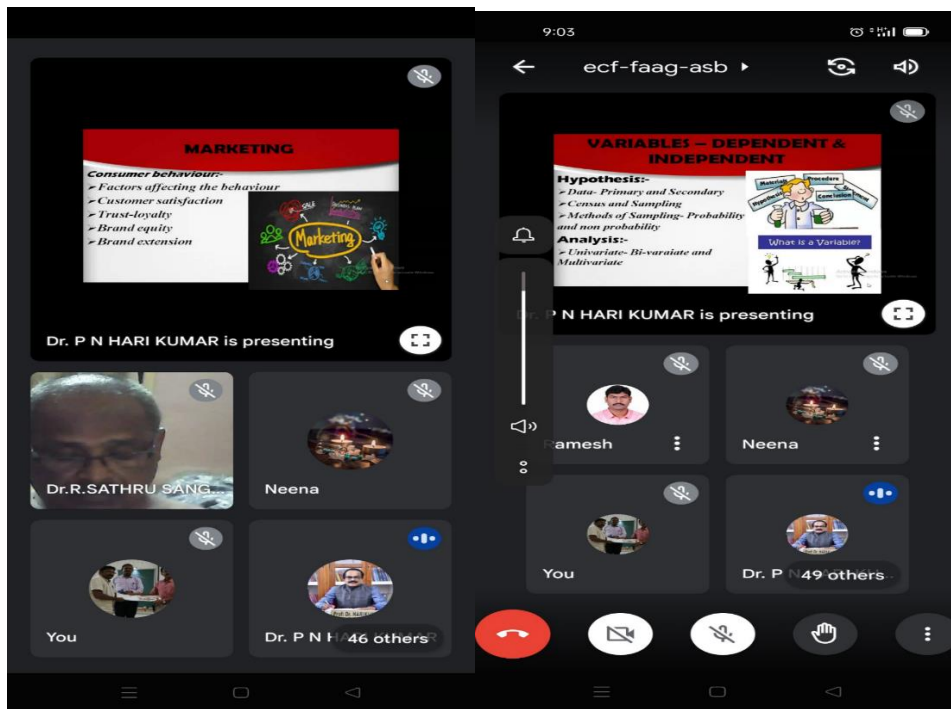
Topic : INTRODUCTION TO RESEARCH METHODOLOGY
Time : 6pm to 8pm
Resource person : **Dr.PN.Hari Kumar**
Professor, School of Business Management and Legal studies University of Kerala

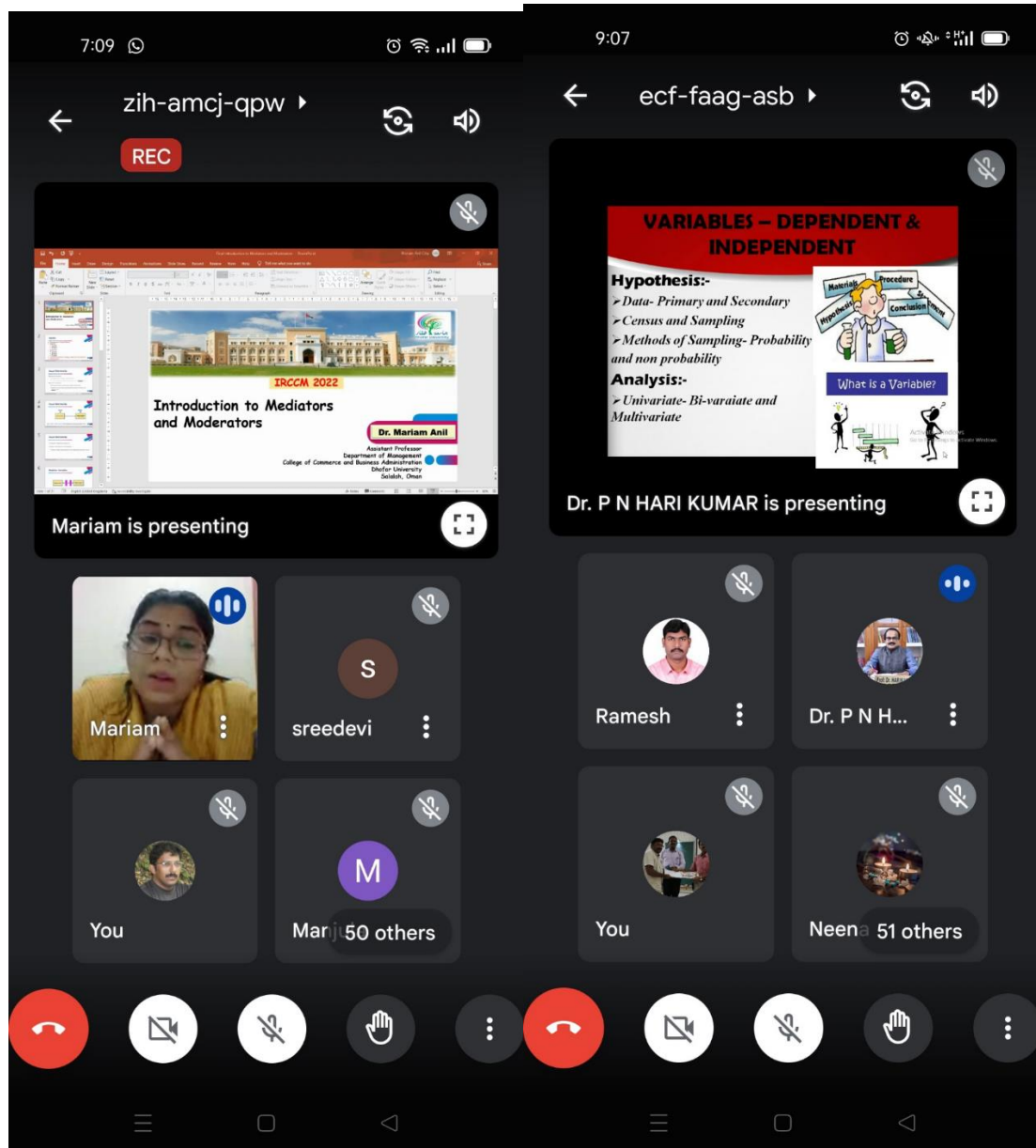


Day 2 - 25/03/2022

Topic : INTRODUCTION TO MEDIATOR AND MODERATOR
Time : 6 pm TO 8 pm
Resource Person : **Dr Mariam Anil**
Assistant Professor, Department of Management College of Commerce and Business Administration Dhofar University, Salalah Oman





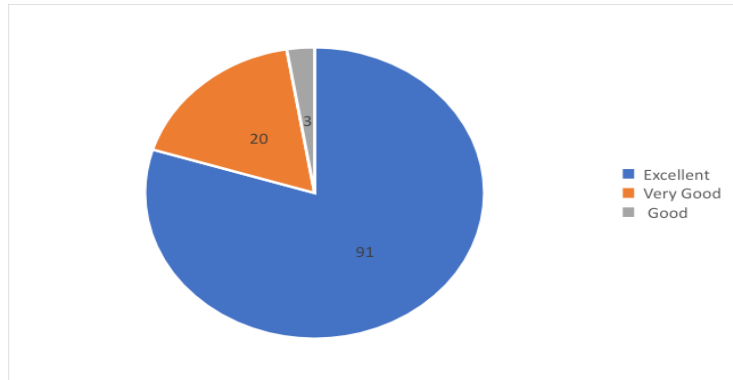


Feedback

LINK: <https://forms.gle/HBK1Kujf9hmT874W7>

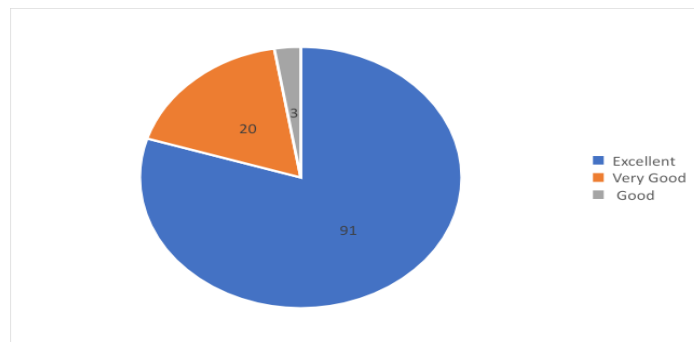
How do you rate the overall conduct of the Research Conference?

- Excellent – 89
- Very Good – 23
- Good – 2



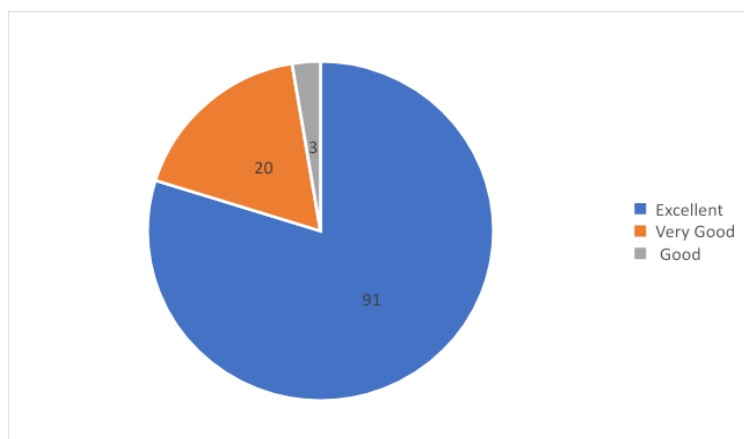
How do you rate the subject expertise of the Resource persons of International Research Conference in Commerce? [Dr P N HARIKUMAR]

Excellent – 93, Very Good – 20 & Good – 1



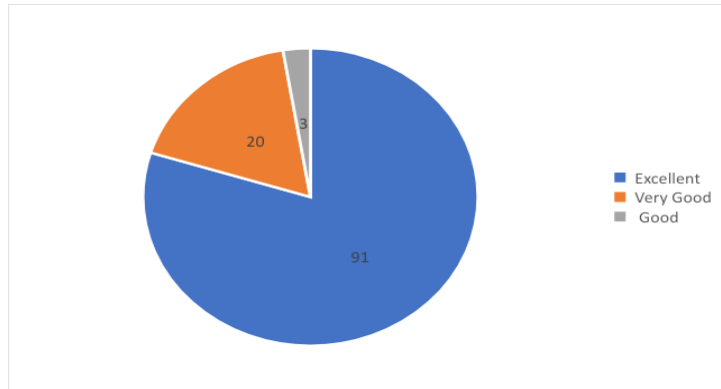
How do you rate the subject expertise of the Resource persons of International Research Conference in Commerce? [Dr MARIAM ANIL]

Excellent – 84, Very Good – 24 & Good – 6



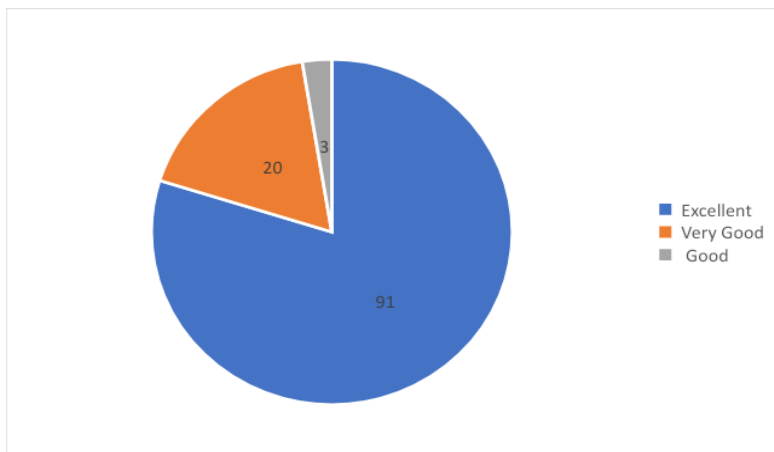
How do you rate the Technical Session - "Introduction to Research Methodology " by Dr P N HARIKUMAR?

Excellent – 100, Very Good – 14, Good – Nil



How do you rate the Technical Session - "Introduction to Mediator and Moderator " by Dr MARIAM ANIL?

Excellent – 91, Very Good – 20, Good – 3



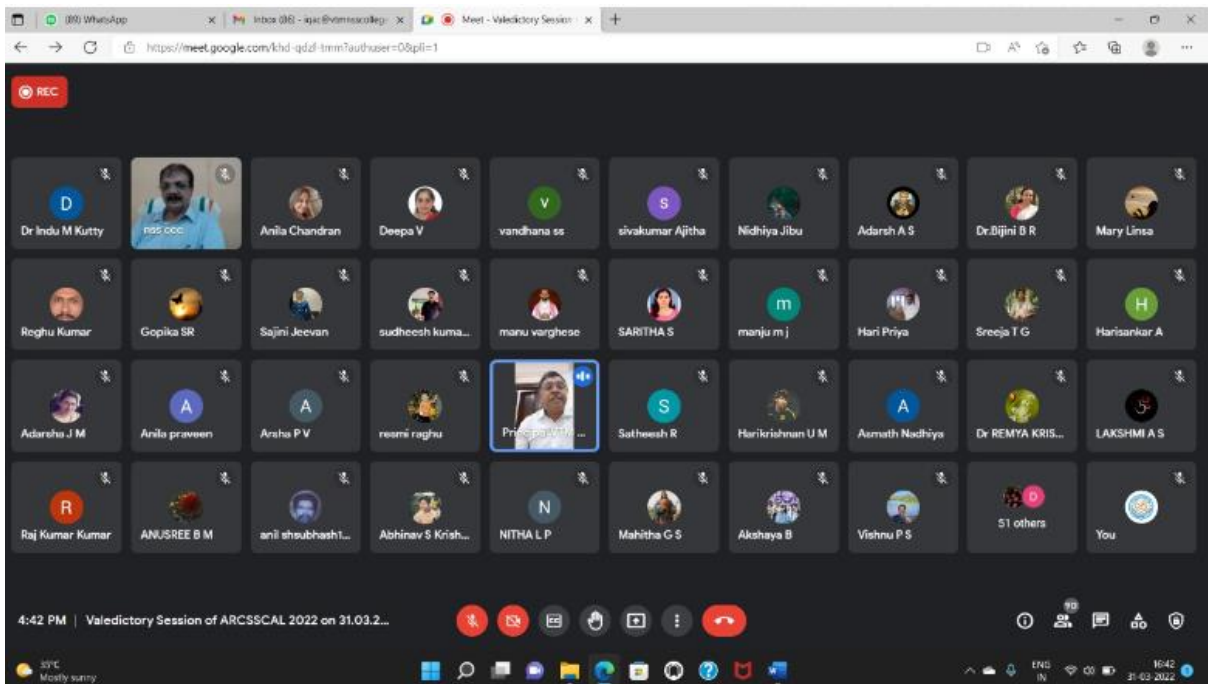
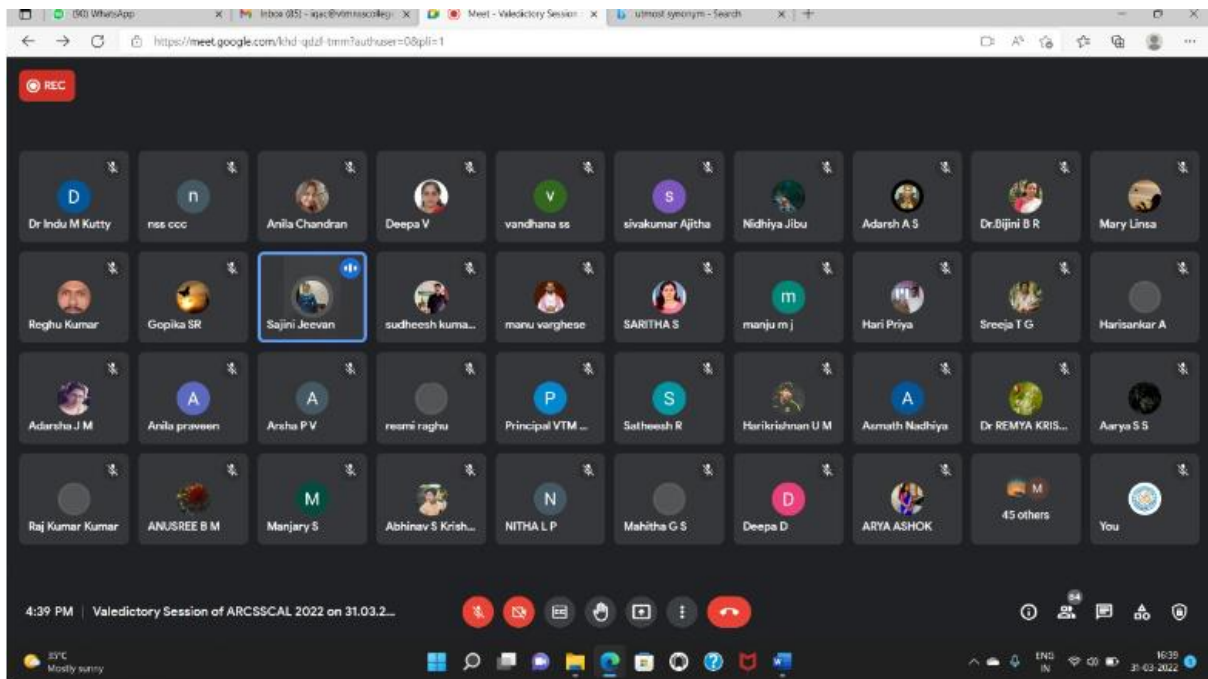
Valedictory Function

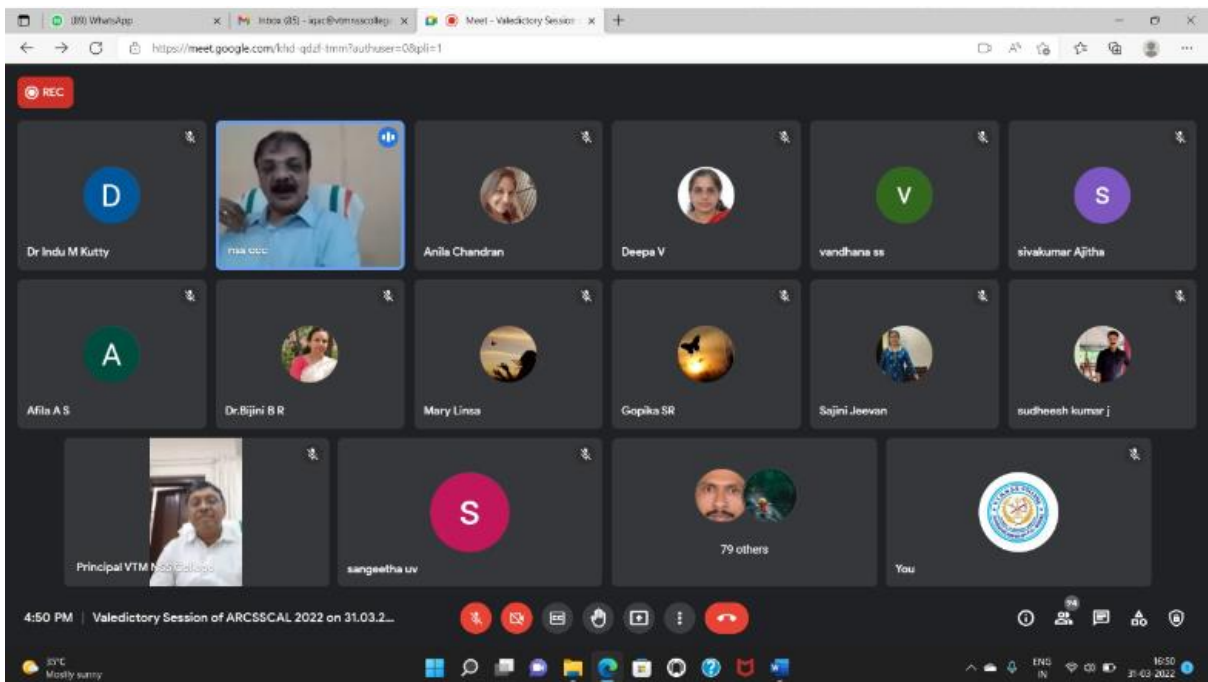
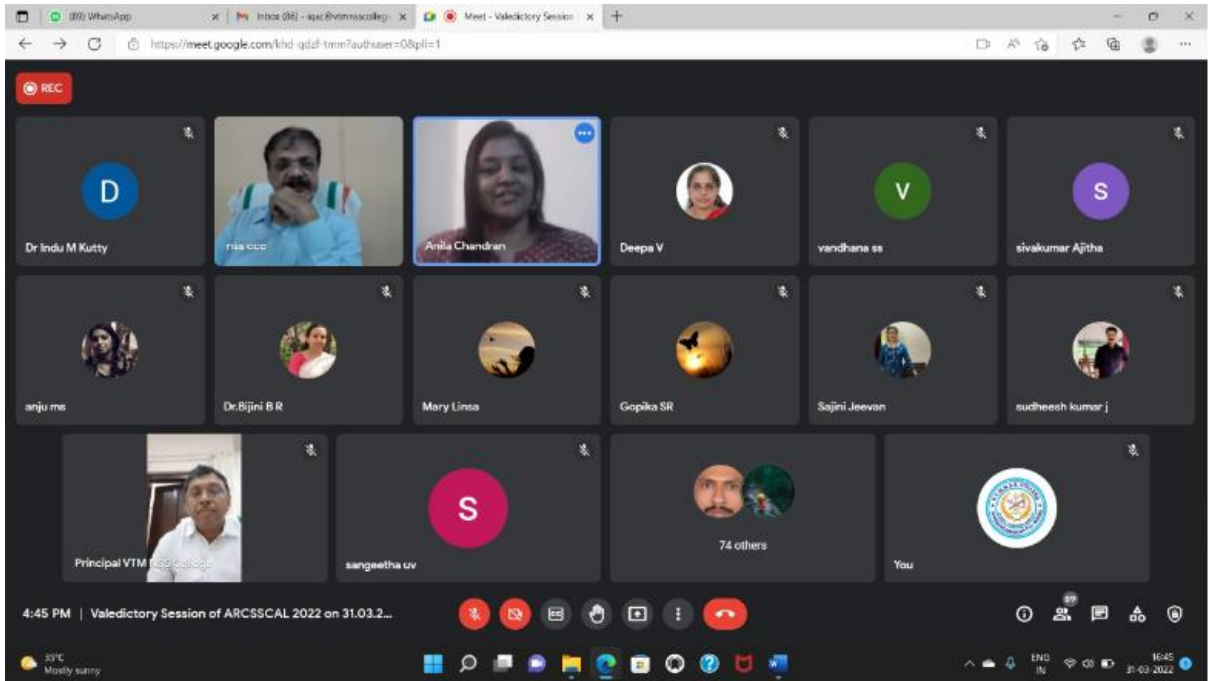
The Valedictory Session of the conference was conducted on 31.03.2022 at 4.30pm. Dr. V M AnandaKumar, Principal, VTMNSS College, Dhanuvachapuram presided over the function and Dr K Shreekrishnakumar, Secretary, NSS Colleges' Central Committee inaugurated the function. The IQAC, convenor, Smt. Shama Pillai delivered felicitations to the meeting and the meeting ended with the vote of thanks of Dr. Bijini B R. Convenor, ARCSSCAL -2022.

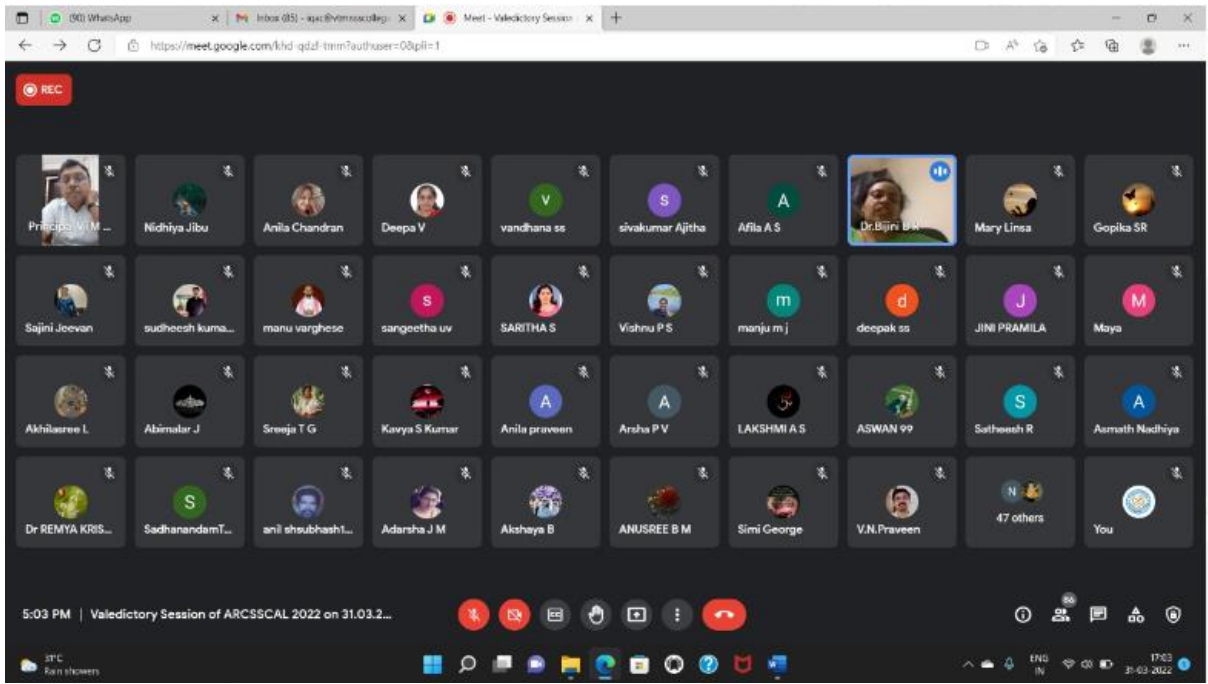
Platform used: Google Meet.

Link: <https://meet.google.com/khd-qdzf-tmm>

The deliberations helped to create a fresh interest in the latest academic developments of various disciplines as well as provided an impetus for research. This also provided a platform to awaken to the challenge of popularising academic discourses and scientific solutions to problems on a global level.







[Handwritten signature in green ink]

Principal
V.T.M.N.S.S. College
Dhanuvachapuram



