

International Conference on Research Trends in Social Sciences:
History, Economics & Political Science ICRTSS 2022

Google Meet Link: <https://meet.google.com/crk-knkz-umi>

ECONOMICS

Day 1 (24/03/2022)

Invited Talk 22: 10.30 am - 11.30 am

“Fiscal Risks and Global Uncertainties”

Welcome : Saritha S (Department of Economics, VTM NSS College)

Resource Person : **Dr. Lekha Chakraborty**

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

Vote of Thanks : Maya P S (Department of Economics, VTM NSS College)

Day 2 (25/03/2022)

Invited Talk 23: 10.30 am - 11.30 am

“Role and Relevance of Planning in Kerala in Current Times”

Welcome : Dr Kishore H (Department of Economics, VTM NSS College)

Resource Person : **Gayatri Nair**

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

Vote of Thanks : Akhila Sree L (Department of Economics, VTM NSS College)

1.30 pm : Oral Presentations

Chair: Saritha S (Department of Economics, VTM NSS College)

POLITICAL SCIENCE

Day 1 (24/03/2022)

Invited Talk 24: 7.00 pm - 8.00 pm

“State and Globalisation”

Welcome : Mr Sudheesh Kumar J
(Department of Political Science, VTM NSS College)

Resource Person : **Dr. V.Biju Kumar**

Centre for Political Studies, School of Social
Sciences, Jawaharlal Nehru University

Vote of Thanks : Bindhu Chandran V
(Department of Political Science, VTM NSS College)

1.30 pm : Oral Presentations

Chair : Sudheesh Kumar J
(Department of Political Science, VTM NSS College)

Day 2 (26/03/2022)

Invited Talk 25 : 4.00 pm - 5.00 pm

“The Role of Migrants in UK in Nation Building: An Introspective
Overview”

Welcome : Sreejith P V
(Department of Political Science, VTM NSS College)

Resource Person : **Balagopal Balakrishnan**

Editor & Activist Information Portal for the
NRI Community in Europe London

Vote of Thanks : Sudheesh Kumar J
(Department of Political Science, VTM NSS College)

1.30 pm : Oral Presentations

Chair : Mr Sudheesh Kumar J
(Department of Political Science, VTM NSS College)

HISTORY

Day 1 (25/03/2022)

Invited Talk 26: 6.00 pm - 7.00 pm

“The Evolution of English Education in India”

Welcome : Dr Sajini P (Department of History, VTM NSS College)

Resource Person : **Ms. Geethu Baby**

Faculty of Education, University of Australia

Vote of Thanks : Dr Unnithan S (Department of History, VTM NSS College)

1.30 pm : Oral Presentations

Chair : Dr Ambili S (Department of History, VTM NSS College)

Day 2 (26/03/2022)

Invited Talk 27 : 7.00 pm - 8.00 pm

“Impacts of Gender and Class on Social Development “

Welcome : Dr Anila K (Department of History, VTM NSS College)

Resource Person : **Dr. Agnes Thomas**

Executive Director, CCS, Toronto

Vote of Thanks : Dr Mayadevi S (Department of History, VTM NSS College)

1.30 pm : Oral Presentations

Chair : Dr Ambili S (Department of History, VTM NSS College)

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

Google Meet Link: <https://meet.google.com/qaj-kqkb-cev>

BOTANY

Day 1: 30/03/2022

Invited Talk 28: 10.30 am - 11.30 am

“Recent Trends in Phytoplankton Studies”

Welcome : Dr Ramesh Kumar S (Department of Botany, VTM NSS College)

Resource Person : **Dr. Anila P Ajayan**

State Key Laboratory of Freshwater
Ecology and Biotechnology, Institute of
Hydrobiology, Chinese Academy of Sciences,
Wuhan, China

Vote of Thanks : Ms Meera Shaji (Department of Botany, VTM NSS College)

Invited Talk 29: 12.00 pm - 1.00 pm

“Sustainable utilization of plant resources- in vitro and in silico
approaches”

Welcome : Dr Sushama Raj R V (Department of Botany, VTM NSS College)

Resource Person : **Dr. T.S. Swapna**

Professor and Head, Department of Botany,
University of Kerala.

Vote of Thanks : Dr Ramesh Kumar S (Department of Botany, VTM NSS College)

2.00 pm : Oral Presentations

Chair : Dr. Preetha T.S.
(Department of Botany, University College, Tvm)
Dr. Kavitha K.R.
(Department of Botany, SN College, Chempazhanchy, Tvm)

ZOOLOGY

Day 1 : 31/03/2022

Invited Talk 30: 10.00 am - 11.00 am

“Flavonoids as Potential Therapeutic agents for the management of
Lifestyle Disease”

Welcome : Dr Gayathri Elayidam (Department of Zoology, VTM NSS College)

Resource Person : **Dr. Mohsin Sulaiman**

Department of Nutrition and Health,
College of Medicine and Health Sciences,
United Arab Emirates University

Vote of Thanks : Dr Maneesh K (Department of Zoology, VTM NSS College)

Invited Talk 31: 11.30 am - 12.30 pm

“Story behind a new medicine: An introduction to drug research and
development”

Welcome : Dr Indu M Kutty (Department of Zoology, VTM NSS College)

Resource Person : **Dr Manju Y K**

Division of Microbiology,
Central Drug Research Institute, Lucknow.

Vote of Thanks : Dr Gayathri Elayidam (Department of Zoology, VTM NSS College)

2.00 pm : Oral Presentations

Chair: Dr. Adhira M Nayar
Department of Zoology, MG College, Thiruvananthapuram

4:30pm : **Valedictory Function**

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

Prayer,

Acharyanusmaranam

Welcome : Dr Sajini P (Coordinator, ICRTSS 2022)

Presidential Address : Dr. Anandakumar V M (Principal)

Inauguration : Dr. K. Shreekrishnakumar,

Secretary NSS Colleges' Central Committee

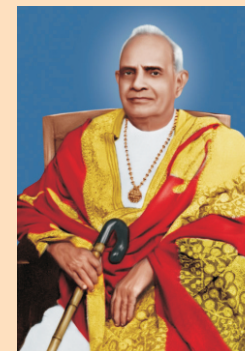
Keynote Address : Prof. (Dr.) N. Gopakumar

Controller of Examinations, University of Kerala

Felicitation : Sreejith P V (Secretary, College Council)

Shama Pillai (Coordinator, IQAC)

Vote of Thanks : Dr Bijini B R (Coordinator, ARCSSCAL 2022)



Padmabhushan Mannathu Padmanbhan was a visionary and social reformer from the South-western state of Kerala. He bore the torch to guide and instill a sense of direction to the dissipated Nair Community by organising the people under the pennant of Nair Service Society (NSS) - an organisation committed towards revitalising the essence of democratic living by upholding the need for selfless service. Compassion, commitment, and benevolence towards fellow beings was his ultimate message to the society at large. The educational institutions under the aegis of NSS, spread across the state of Kerala are testimonials of his perceptive aspirations.



About the College

VTM NSS College, Dhanuvachapuram, the cornerstone of quality education to generations of learners from the remote areas of Southern Kerala, was established by the Nair Service Society in 1964, in commemoration of the bicentenary of the great freedom fighter Thalakkalathu Velu Thampi Dalawa. The institution, affiliated to the University of Kerala, was re-accredited by NAAC with B+ Grade at CGPA 2.71 in 2018. The institution offers 11 Undergraduate programmes and 4 Postgraduate programmes, along with various clubs, committees and cells that work towards augmenting the efficacy of the academic community, holistically. An impartial and profound dissemination of knowledge with viable resources of learning bears the hallmark of eminence and perpetuity.

About Research Committee

Research plays a pivotal role in the inculcation of a profound episteme within the academic milieu. The Research committee of VTM NSS College, Dhanuvachapuram strives to ensure the quality of research by augmenting the research environment. The research policy of the institution aims to create a research focused aptitude and culture and to evolve a scientific temper for the academic fraternity in accordance with the vision and mission of the college. It also aims to ensure productive research activities of the college conferring to all rules and regulations as well as the ethical conduct of research in compliance with the University Grants commission. An inalienable role of the research committee is to make sure that our research is never restrained within the four walls by promoting our axiom of putting nature and humanity first, by encouraging need-based development and innovation, while conserving nature with an environmentally sustainable and viable modus operandi.



VTM NSS COLLEGE

Dhanuvachapuram, Thiruvananthapuram

(Accredited by NAAC with CGPA 2.71 at B+ Grade)

www.vtmnsscollege.ac.in



ARCSSCAL-2022

INTERNATIONAL CONFERENCE

2022 March 23 - 31

Organized by Research Committee
In association with IQAC

Platform: Google Meet



ARCSSCAL-2022

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

INTERNATIONAL CONFERENCE

Patron:

Dr. K. SHREEKRISHNAKUMAR

Secretary NSS Colleges' Central Committee,
Changanassery, Kerala India

Chair Person

Dr. ANANDAKUMAR V M

(Principal)

Organising Committee

Dr. Bijini B R (Coordinator, ARCSICAL 2022)

Shama Pillai (Coordinator, IQAC)

Dr Sajini P (Coordinator ICRTSS 2022)

Dr Bettymol Mathew (Coordinator IRCCTLL 2022)

Dr Nitha L P (Coordinator, ICRTPCM 2022)

Dr. Sushama Raj R V (Coordinator, ICRTBS 2022)

Dr Remya Krishnan (Coordinator, IRCCM 2022)

Sreeja T G (Head, Department of Chemistry)

Deepa D (Head, Department of Mathematics)

Dr. Deepa V (Coordinator, Department of Physics)

Dr. Indu M Kutty (Head, Department of Zoology)

Dr. Gayathri Elayidam U (Coordinator, Department of Zoology)

Dr. Remesh Kumar S (Head, Department of Botany)

Dr. Sigma G R (Head, Department of English)

Aswathy G (Coordinator, Department of English)

Dr Susmitha O V (Coordinator & Head, Department of Hindi)

Dr Ajithakumari O (Coordinator & Head, Department of Tamil)

Dr. Mayadevi S (Coordinator, Department of History)

Dr. Kishore H (Head, Department of Economics)

Saritha S (Coordinator, Department of Economics)

Sudheesh kumar J (Head, Department of Political Science)

Mr. Sreejith P V (Coordinator, Department of Political Science)

Dr Manjula K G (Head, Department of Commerce)

Dr Sreeja Sankar R (Coordinator, Department of Malayalam)

Dear Sir/Madam,

VTM NSS College, Dhanuvachapuram, 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 (ARCSSAL) 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 inculcate 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, Dhanuvachapuram cordially solicit your esteemed support and participation to make this event a grand success.

With warm regards,

Dr. Bijini B.R

Coordinator, ARCSICAL 2022

Dr. Anandakumar V.M.

Principal

Shama Pillai

Coordinator, IQAC

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 (Convenor, ICRTBS 2022)

Programme Schedule

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

Google Meet Link: <https://meet.google.com/wec-jhgy-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)

9.00 am : **Oral Presentations**
Chair : Dr V N Praveen (Department of Physics, VTM NSS College)

Day 2: (26/03/2022)

Invited talk 2: 3.30pm - 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 J M (Department of Physics, VTM NSS College)

1.30 pm : **Oral Presentations**
Chair : Dr Deepa V (Department of Physics, VTM NSS College)

CHEMISTRY

Day 1 (24/03/2022)

Invited Talk 3: 11.30am - 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 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 T G (Department of Chemistry, VTM NSS College)

Resource Person : **Renjith Raman Pillai MS.MtE.**
Department of Material Science & Engineering, University of Alabama, Birmingham, US

Vote of Thanks : Dr Suprabha S (Department of Chemistry, VTM NSS College)

1.30 pm : **Oral Presentations**
Chair: Manju M J (Department of Chemistry, VTM NSS College)

MATHEMATICS

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 : Afla A S (Department of Mathematics, 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)

1.30 pm : **Oral Presentations**
Chair : Deepa D (Department of Mathematics, VTM NSS College)

International Research Conference on Current Trends in Language & Literature IRCCTLL 2022

Google Meet Link: <https://meet.google.com/iiz-htii-zku>

MALAYALAM

Day 1 (24/03/2022)

Invited Talk 7: 10.00 am - 10.30 am

“Ezhuthukarum Cyber Sahithyavum”

Welcome : Dr Bettymol Mathew (Department of Malayalam, VTM NSS College)

Resource Person : **Thampi Antony Thekkekkku**
Writer, Actor and Producer, USA

Vote of Thanks : Dr Anupama M (Department of Malayalam, VTM NSS College)

Invited Talk 8: 10.30 am - 11.00 am

“Cyber Lokathe Mali Chithrangal”

Welcome : Dr Sreela Rani M S (Department of Malayalam, VTM NSS College)

Resource Person : **Dr Lalu S Kurup**
Department of Malayalam, MM NSS College, Kottiyam

Vote of Thanks : Dr Pavithra M P (Department of Malayalam, VTM NSS College)

1.30 pm

Oral Presentations

Chair : Dr Sreela Rani M S (Department of Malayalam, VTM NSS College)

Invited Talk 9: 11.00 am - 11.30 am

“Cyber Ezhuth Anubhavangal Pravasa Jeevithathil”

Welcome : Dr Sreeja Sankar R (Department of Malayalam, VTM NSS College)

Resource Person : **Dr.S.S.Lal**

Professor and Head of Public Health , U.N.Consultant.

Vote of Thanks : Dr Pavithra M P (Department of Malayalam, VTM NSS College)

Invited Talk 10: 11.00 am - 11.30 am

“Sannidhyavum Bhavukathavavum”

Welcome : Dr Sreela Rani M S (Department of Malayalam, VTM NSS College)

Resource Person : **Dr Arya A S**

Vote of Thanks : Hareesh Kumar A S (Department of Malayalam, VTM NSS College)

Invited Talk 11: 12.00 noon - 12.30 pm

“Cyber Lokavum Malayala Cherukadhayum”

Welcome : Dr Pavithra M P (Department of Malayalam, VTM NSS College)

Resource Person : **Dr C Udayakala**
Department of Malayalam,
All Saint's College, Thiruvananthapuram

Vote of Thanks : Dr Sreela Rani M S (Department of Malayalam, VTM NSS College)

ENGLISH

Day 1: (25/03/2022)

Invited Talk 12: 9.30 am - 10.30 am

“Cyber Literature in English”

Welcome : Dr Sigma G R (Department of English, VTM NSS College)

Resource Person : **Dr. J I Abbot**
Professor of English and Philosophy,
Tunis Community College, Farmington, USA

Vote of Thanks : Parvathy G (Department of English, VTM NSS College)

Invited Talk 13: 10.30 am-11.30am

“Digital Literature”

Welcome : Anila Chandran (Department of English, VTM NSS College)

Resource Person : **Dr .Keshab Sigdel**
Tribhuvan University, Nepal

Vote of Thanks : Dr Meera Rachel (Department of English, VTM NSS College)

Invited Talk 14: 12.00 pm - 1.00 pm

“Language and Literature in Cyber Space”

Welcome : Shama Pillai (Department of English, VTM NSS College)

Resource Person : **Dr Madhavi Nikam,**

Department of English, RK Talreja College,
Thane, Mumbai.

Vote of Thanks : Aswathy G (Department of English, VTM NSS College)

Invited Talk 15 : 1.30 pm - 2.30 pm

“This Thing Called E-Lit”

Welcome : Ms Arathi Lal B (Department of English, VTM NSS College)

Resource Person : **Samya Brata Roy**
Indian Institute of Technology, Jodhpur

Vote of Thanks : Anila Chandran (Department of English, VTM NSS College)

3.30 pm :

Oral Presentations

Chair : Ms Parvathy G

(Department of English, VTM NSS College)

HINDI

Day 1 (26/3/2022)

Invited talk 16: 10.00 am - 10.45 am

“Hindi ka Saiber Sahitya”

Welcome : Dr Susmitha O V (Department of Hindi, VTM NSS College)

Resource Person : **Dr. Ram Bharose**
Government Degree College, Pokhri (Quili),
Tehri Garhwal, Uttarakhand

Vote of Thanks : Dr Dhanya U (Department of Hindi, VTM NSS College)

Invited talk 17: 10.45 am - 11.30 pm

“Cyber Kavita”

Welcome : Dr Susmitha O V (Department of Hindi, VTM NSS College)

Resource Person : **Dr Indu K V**

School of Distance Education,
University of Kerala, Thiruvananthapuram

Vote of Thanks : Dr Dhanya U (Department of Hindi, VTM NSS College)

1.30 pm : **Oral Presentations**

Chair : Dr.S R Jayasree (Department of Hindi, University of Kerala)

TAMIL

Day 1 (26/03/2022)

Invited talk 18: 11.30 am - 12.15 pm

“Kaninium Thamizhum”

Welcome : Dr. Ajitha Kumari O (Department of Tamil, VTM NSS College)

Resource Person : **Dr. Kingston Palthamburaj**
Faculty of Language and Communications,
University Pendidikan Sultan Idris (UPSII)

Vote of Thanks : D. Benila (Department of Kerala Studies, University of Kerala)

Invited talk 19: 12.15 pm - 1.00 pm

“Min akaraathikalum Payanpaadam”

Welcome : Dr. Ajitha kumari. O (Department of Tamil, VTM NSS College)

Resource Person : **Dr.Hepsy Rose Mary. A**
Department of Tamil,
University of Kerala, Thiruvananthapuram

Vote of Thanks : Athira. R (Department of Commerce, VTM NSS College)

1.30 pm :

Oral Presentations

Chair : Dr Muthu Lekshmi T

Department of Tamil, University of Kerala.

International Research Conference on Commerce & Management IRCCM 2022

Google Meet Link: <https://meet.google.com/zih-amcj-qpw>

COMMERCE

Day 1 (24/03/2022)

Invited Talk 20 : 6.00 pm - 8.00 pm

“Introduction to Research Methodology”

Welcome : Dr Sumesh G S (Department of Commerce, VTM NSS College)

Resource Person : **Dr P N Hari Kumar**
Professor, School of Business Management
and Legal Studies, University of Kerala

Vote of Thanks : Dr. Kalarani T.G (Department of Commerce, VTM NSS College)

Day 2 (25/03/2022)

Invited Talk 21: 6.00 pm - 8.00 pm

“Introduction to Mediator and Moderator”

Welcome : Dr. Manjula K G (Department of Commerce, VTM NSS College)

Resource Person : **Dr Mariam Anil**
Department of Management,
College of Commerce and Business
Administration, Dhofar University, Salalh Oman

Vote of Thanks : Ratheesh R J (Department of Commerce, VTM NSS College)