



NALLAMUTHU GOUNDER MAHALINGAM COLLEGE

An Autonomous Institution, Affiliated to Bharathiar University, An ISO 9001:2015 Certified Institution,

Pollachi-642001



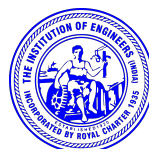
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One day International Conference

EMERGING TRENDS IN SCIENCE AND TECHNOLOGY (ETIST-2021)

27th October 2021

Jointly Organized by

Department of Biological Science, Physical Science and Computational Science

ABOUT THE INSTITUTION

A nation's growth is in proportion to education and intelligence spread among the masses. Having this idealistic vision, two great philanthropists late. S.P. Nallamuthu Gounder and Late. Arutchelver Padmabhushan Dr.N.Mahalingam formed an organization called Pollachi Kalvi Kazhagam, which started NGM College in 1957, to impart holistic education with an objective to cater to the higher educational needs of those who wish to aspire for excellence in knowledge and values. The College has achieved greater academic distinctions with the introduction of autonomous system from the academic year 1987-88. The college has been Re-Accredited by NAAC and it is ISO 9001 : 2015 Certified Institution. The total student strength is around 6000. Having celebrated its Diamond Jubilee in 2017, the college has blossomed into a premier Post-Graduate and Research Institution, offering 26 UG, 12 PG, 13 M.Phil and 10 Ph.D Programmes, apart from Diploma and Certificate Courses. The college has been ranked within Top 100 (72nd Rank) in India by NIRF 2021.

RESEARCH COMMITTEE

Research Committee of NGM functions to facilitate the Researchers of the college to foresee the broad spectrum of research, and constantly challenge the evolving innovations at the global level, empower and equip the inquisitive minds with a distinguished academic ambience for research and to promote Interdisciplinary Research Culture emphasizing to publish in UGC approved /Web of Science/Scopus Journals. Seed money, scholarships for Researchers, Incentives & Awards are provided to develop the competitive spirit of the researchers. Currently the committee is headed by Dr.Antony Selvadoss Thanamani, Associate Professor & Head, Department of Computer Science and 11 members who are the Researcher/Faculty of various departments of the college.

ABOUT THE DEPARTMENTS

BIOLOGICAL SCIENCE

Department of Botany and Zoology was established since inception in the year 1957, catering to the needs of pre-university courses. B.Sc Botany was started in the year 1972, and M.Sc Botany was started in the year 2015. PhD in Botany was introduced in the year 1987. B.Sc Zoology was introduced in the year 1982. The departments of Botany and Zoology ensure vertical and horizontal curricular enhancements ranging from classical to Applied Biology. A variety of teaching and learning techniques have been employed to impart knowledge and skills to students. Alumni of our department have made their marks in various institutions around the world.

PHYSICAL SCIENCE

Department of Mathematics was established in the year 1959 with the B.Sc., programme and then upgraded as the Post Graduate Department in the year 1979. Introduction of research programmes M.Phil in 1983 and Ph.D in 1992 enriched it. The Department has competent faculties, actively involved in teaching, learning and research. The Department of Physics was established in the year 1958. The objective of teaching by our committed faculty is to enable the students to get along without a teacher. Such an objective has created a lot of excellent academicians and scientists, throughout the Globe. The department of chemistry was established in the year 1957 and undergraduate B.Sc. Chemistry programme was introduced in the year 1965 and M.Sc chemistry was started in 2015. PhD in Chemistry was introduced in 2016. The aim of our department is to promote quality education by harnessing the practical skills, updating knowledge, creativity and progressive research environment to meet the demands of various research institutes and industries.

COMPUTATIONAL SCIENCE

The UG Department of Computer Science was established in the year 1986. MCA had its humble foray in the Arena of Computer science in the year 1990. Since the time of its inception the department has maintained its flair. The additional section were started in the year 1996 and 2014. BCA was started in the year 2000 and an additional section was started in the year 2012. The M.Sc Computer Science programme was introduced in the year 2010. B.Sc Information Technology was started in the year 2008. B.Sc Computer Technology has started its humble beginning in 2011 with the objective of imparting quality education in the field of Computer Science.

ABOUT THE CONFERENCE

The International conference on “Emerging Trends in Science and Technology (ETIST-2021)” is being jointly organized by Departments of Biological Science, Physical Science and Computational Science - Nallamuthu Gounder Mahalingam College, Pollachi along with ISTE, CSI, IETE, IEE & RIYASA LABS on 27th OCT 2021. The Conference will provide common platform for faculties, research scholars, industrialists to exchange and discuss the innovative ideas and will promote to work in interdisciplinary mode.

Potential themes to be addressed in this conference include the following areas but are not limited to:

CONFERENCE TOPICS

BIOLOGICAL SCIENCE	Core Life Sciences, Pharmaceutical Sciences, Imaging & Diagnostics, Biomaterials & Biomechanics, Biosensors, Bio-heat transfer & Bioprocess Engg., Computational Biology, Biophysical & Biochemical Sciences, Mathematical Modeling & Quantum
PHYSICAL SCIENCE	Kinematics, Newton's Laws of Motion, Vectors and Projectiles, Forces in Two-Dimensions, Static Electricity, Quantum computing, Elliptic Functions, Fourier Series, Graph Theory, Differential equations, Operations Research, Fluid Dynamics, Fuzzy sets & Fuzzy Logic, Complex Analysis, Algebra, Logic and Philosophy, Topology, Solar Cell, Energy Storage Devices, Solid State Batteries, Polymer Electrolytes, Luminescent Materials, Molecular Modeling and Study, Nanomaterials, Synthetic Chemistry, Corrosion Science, Metal Organic Framework, Polymer Chemistry, Natural Product Chemistry
COMPUTATIONAL SCIENCE	Internet of Things, Artificial Intelligence, IOT based automation, Network Security, Data Mining, Cloud based application for Machine Learning, Industrial automation over Secure IOT, Cloud Computing, Secure Smart Systems, Wireless Communications, Mobile Computing, Machine Learning

INSTRUCTIONS TO AUTHORS

- ❖ An Abstract not exceeding 200 words has to be sent in the form of both soft and hard copies.
- ❖ The paper should contain the Title, Author's name, Designation, Official Address, e-mail ID and mobile number
- ❖ The length of the paper should not exceed six pages
- ❖ Font - Times New Roman, Font Size - 12, Line Spacing 1.5, Paper size- A4
- ❖ Selected research papers will be published in Conference Proceedings with ISBN number. Copy of Hard Copy conference proceedings Rs.500/- . However soft copy of conference proceedings will be issued free of cost.
- ❖ There may be more than one author, but each author should register separately.
- ❖ Spot registration is allowed for participation only.
- ❖ Papers received after the deadline will not be included for publication.
- ❖ Authors are requested to submit abstract & full paper to research@ngmc.org

REGISTRATION

Industries	Rs. 400
Faculty	Rs. 300
Research Scholars/ Students	Rs. 200
Participants	- NIL -

IMPORTANT DATES

Last Date for Abstract Submission along with registration fees	11 th OCT 2021
Full paper submission	13 th OCT 2021
Confirmation By Participants	23 rd OCT 2021
Date of Conference	27 th OCT 2021

REGISTRATION LINK

Biological Science	shorturl.at/gsxTX
Physical Science	shorturl.at/uFKW5
Computational Science	shorturl.at/sGPZ7

ONLINE PAYMENT DETAILS

Bank Name & Branch	Indian Overseas Bank, NGM College
Account Name	The Principal, NGM College
Account Number	170101000000111
IFSC Code	IOBA0001701

PUBLICATION

All Accepted papers will be published in UGC, Web of Science, Scopus Indexed Journals

Hard Copy Certificates will be sent to the participants by post

FOR COMMUNICATION

BIOLOGICAL SCIENCE

- ❖ **Dr. P. Sathishkumar**, Assistant Professor, Dept of PG Botany, E-mail: sathishkumarkutti@gmail.com, Ph: +91 97881 03543
- ❖ **Ms. S. Jayalakshmi**, Assistant Professor, Dept of Zoology, E-mail: jayajeeva83@gmail.com, Ph: +91 99440 08420
- ❖ **Dr. S. Christopher**, Assistant Professor, Dept of Zoology, E-mail: christophermano@gmail.com, Ph: +91 97870 28467

PHYSICAL SCIENCE

- ❖ **Dr. V. Chitra**, Assistant Professor, Dept of Maths, E-mail: chitrangmc@gmail.com, Ph: +91 98427 77715
- ❖ **Dr. A. Sureshkumar**, Assistant Professor, Dept of Physics, E-mail: asureshngm@gmail.com, Ph: +91 99946 64813
- ❖ **Dr. A.G. Kannan**, Assistant Professor, Dept of Physics, E-mail: kannanphysics@gmail.com, Ph: +91 90250 25189
- ❖ **Dr. M. Selladurai**, Assistant Professor, Dept of Chemistry, E-mail: sellachem@gmail.com, Ph: +91 9710709275

COMPUTATIONAL SCIENCE

- ❖ **Dr.E. Ramadevi**, Associate Professor, PG Dept of Computer Application, E-mail: ramajus@hotmail.com, Ph: +91 97903 73859
- ❖ **Dr. R. Nandhakumar**, Assistant Professor, Dept of Computer Science, E-mail: nkumaran@gmail.com, Ph: +91 99655 51124
- ❖ **Mrs. M.Malathi**, Assistant Professor, Dept of Computer Science, E-mail: malathi.mca09@gmail.com, Ph: +91 99656 61106

ORGANIZING COMMITTEE

CHIEF PATRON(S)

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- ❖ **Thiru. M. Balasubramaniam**, Secretary

PATRON

- ❖ **Dr. R.Muthukumaran**, Principal

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- ❖ **Dr. Antony Selvadoss Thanamani**, Research Coordinator & Associate Professor and Head, Dept of CS (Aided)
- ❖ **Dr. V. Inthumathi**, Associate Professor and Head, PG & Research Department of Mathematics (Aided)
- ❖ **Dr. R. Kannan**, Associate Professor and Head, Department of Botany (Aided)

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Co-Convenor

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- ❖ **Dr. S. Mariselvi**, Assistant Professor, Dept of Zoology
- ❖ **Dr. A.M. Ananda kumar**, Assistant Professor, PG Dept of Botany

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- ❖ **Dr. J. Jayasudha**, Assistant Professor, Dept of Mathematics

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- ❖ **Ms. N. Revathi**, Assistant Professor, Dept of Physics
- ❖ **Dr. V. Prabhu**, Assistant Professor, Dept of Chemistry
- ❖ **Prof. S. Earnest Rajadurai**, Assistant Professor, Dept of Mathematics

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Co-Convenor

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- ❖ **Dr. (Mrs.) Aruchamy Rajini**, Assistant Professor, Dept of Computer Science
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- ❖ **Dr. E. Ramadevi**, Associate Professor, Dept of Computer Science
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- ❖ **Dr. A. Kanagaraj**, Assistant Professor, Dept of Computer Science

RAPPORTEUR

- ❖ **Dr. M. Durairaju**, Associate Professor, Dept of Zoology
- ❖ **Dr. M. Amutha**, Assistant Professor, Dept of Chemistry
- ❖ **Dr. K. Rajalakshmi**, Assistant Professor, Dept of Botany
- ❖ **Dr. E. Neelamathi**, Assistant Professor, Dept of Botany
- ❖ **Dr. S. Sivasankar**, Assistant Professor, Dept of Maths
- ❖ **Dr. M. Karthika**, Assistant Professor, Dept of Physics
- ❖ **Dr. S. Shanmugapriya**, Assistant Professor, Dept of Physics
- ❖ **Dr. S. Hemalatha**, Associate Professor, Dept of BCA
- ❖ **Ms. D. Sowmiya**, Assistant Professor, PG Dept of Botony
- ❖ **Dr. T. Gowrani**, Assistant Professor, Dept of Chemistry
- ❖ **Ms. R. Sudha**, Assistant Professor, Dept of Chemistry

TECHNICAL COMMITTEE

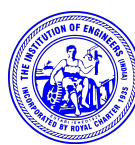
- ❖ **Dr. S. Kaleeswari**, Assistant Professor, Dept of Maths
- ❖ **Thiru. T. Ponraj**, Assistant Professor, Dept of Physics
- ❖ **Dr P. Sivaraj**, Assistant Professor, Dept of Physics

RESOURCE PERSONS

- ❖ **Dr T. Somanathan**, Associate Professor, Department of Chemistry, School of Basic Sciences, Vels Institute of Science Technology and Advanced Studies (VISTAS), Chennai-600117.
- ❖ **Dr A. Dennyson Savariraj**, Research Professor, Sunchon National University, South Korea.

- ❖ **Dr T.Somanathan**, Associate Professor, Department of Chemistry, School of Basic Sciences, Vels Institute of Science Technology and Advanced Studies (VISTAS), Chennai-600117.
- ❖ **Dr A.Dennyson Savariraj**, Research Professor, Sunchon National University, South Korea.
- ❖ **Dr. A. Subramania Angaiah**, Professor, Centre for Nanoscience and Technology, Madanjeet School of Green Energy Technologies, Pondicherry University, Puducherry-605014.
- ❖ **Prof. P. Christopher Selvin**, Professor, Department of Physics, Bharathiar University, Coimbatore, Tamil Nadu, India.
- ❖ **Prof. Shanti Bhattacharya**, Professor, Department of Electrical Engineering, IIT Madras, Chennai.
- ❖ **Prof. Raghuram Chetty**, Professor, Department of Chemical Engineering, IIT Madras, Chennai.
- ❖ **Dr. Vijayshankar Asokan**, Post-doctoral researcher, Chalmers University of Technology, Sweden.
- ❖ **Vijayakumar Murugesan**, Physicist, Pacific Northwest National Laboratory, United States.
- ❖ **Karthikeyan Kumarasamy**, Energy Research Institute, Nanyang Technological University, Singapore – 637 141.
- ❖ **Dr. S. Arockiasamy**, Acting Dean, Associate Professor, Department of Information Systems, College of Economics, Management and Information Systems, University of Nizwa, Oman.
- ❖ **Dr. Karthikeyan Subramanian**, Assistant Professor, Department of Information Technology, College of Applied Sciences (MOU with Otago University, Newzealand) (Run by Ministry of Higher Education, Oman).
- ❖ **Dr A. Manivannan**, Scientist, Genetics and Plant Breeding, Central Institute for Cotton Research Regional Station, ICAR, Coimbatore.
- ❖ **Dr. P. Kandasamy FNASc**, Professor & Head (Retd) Department of Mathematics Bharathiyar University Coimbatore 640146.
- ❖ **Dr Saeid Jafari**, Professor, Department of Mathematics, College of Vestsjaelland Sarth, Slagelse, Denmark.
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- ❖ **Dr Raveendran**, Scientist 'F', NIC Pondicherry.
- ❖ **Dr. Balamurugan Easwaran**, Director ICT, University of Africa, Toru-orua, Nigeria.
- ❖ **Dr P. T. Anitha**, Associate Professor - CS and IT, College of Engineering and Technology, Wollega University, Nekemte, Ethiopia.
- ❖ **Dr.S.Arumuga Perumal**, Professor, Department of Computer Science, S.T.Hindu College, Nagercoil, India.

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**Education is the manifestation of the
perfection already in man**

- Swami Vivekananda

