

NATURE SCIENCE FOUNDATION

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Save the Nature to Save the Future; Go Green to Save the Planet

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Editorial...

From the date of inception of the Nature Science Foundation (hereafter NSF), the Organization published a couple of Newsletter that widely covered the programs implemented by NSF and other activities. During pandemic situations, dissemination of activities of the Nature Science Foundation through publishing Newsletter was interrupted. Trustees and Executive Committee Members of NSF felt that it is high time to revive the Nature Science Foundation's Newsletter, immediately. It has also been decided to issue the Newsletter at three months intervals (March, June, September and December) as an electronic version and to be communicated among the members, educational institutions and other organizations to popularize the NSF in line with its "Vision and Mission".

Global commitments toward environmental conservation is being enhanced day by day due to the present-day global warming phenomenon. The twin problems of global warming and climate change are not misapprehensions rather they have to be tackled instantaneously, however, human understanding of these issues rests far from perfect. To resolve the existing issues, it requires a holistic approach and enormous collaboration from all public elements including each and every individual. Ever since from inception of NSF, it engages to "Save Nature" in order to "Protect Planet".

In order to acquire much more support and cooperation from the educational institutions and among the public it has been decided to include short notes on important issues/research findings apart from the regular features. In this regard, interested persons may send their articles/research findings to NSF; however, relevant and important articles will only be included in the NSF Quarterly Newsletter. At this juncture, NSF recalled the service and support rendered by each and every individual belonging to various educational organizations.

On the occasion of the issuance of the electronic version of progressive measure of milestones of the NSF in the form of Quarterly Newsletter, the Executive Committee and Editorial Board Members thank wholeheartedly all the readers.

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World Environment Day

This year, June 5, mark the 50th year since the first Global Environment Summit incepted by United Nations. The theme of World Environment Day this year is “Only one earth”. Humanity is using up the resources of the world rapidly than they can naturally replenish. It is the largest global environment event to celebrate and encourage action on the climate crisis. The aim of this event is to engage governments, the corporate sector, civil society, educational institutions and local authorities of cities/communities in raising awareness on environmental protection. World-wide celebrations include street rallies, sapling planting, workshops, special lectures, etc., to create environmental awareness among the individuals.

In this context, Nature Science Foundation, Coimbatore organized online Webinar Meet wherein the members of the International Eco Club Student Chapters of KSR Institute of Engineering and Technology, Trichengode, Nehru College of Arts and Science, Coimbatore, St. Joseph’s College for Women, Trippur, Kirupanithi Degree College, Karnataka, Dr. C.V. Raman University, Chhattisgarh, SNMV College of Arts and Science, Coimbatore, Sathyabma Institute of

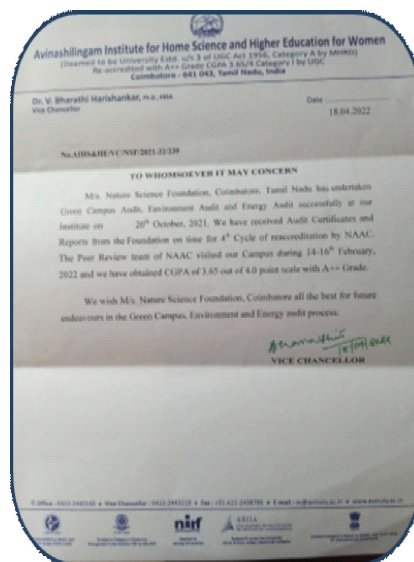
Science and Technology, Chennai participated. Dr.D. Vinoth Kumar, Joint Director, Nature Science Foundation, Coimbatore welcomed the participants; there were more than 100 members participated. Resource Person, Dr. T. Anita, Assistant Professor, Department of Botany, Auxillium College for Women, Vellore delivered a special lecture on “Only One Earth Impart Infinity”.

In her special lecture, she covered the importance of resources, industrial

and plastic pollution in relation to environmental degradation and impact of climate change besides ways and means of environmental protection. The interactive session indicated the active participation of the student members belonging from various states and their queries revolved around the need of the hour to protect the environment and so on. At the end of the session, Ms.V. Santhiya, Assistant Director, Nature Science Foundation proposed a vote of thanks.

Testimonial issued by Avinashilingam University

Nature Science foundation has undertaken Green Campus, Environment Audit and Energy Audit on October 20, 2021. Audit reports and certificates issued by Nature Science Foundation were submitted to the peer review team of NAAC visited Avinashilingam University campus for 4th cycle reaccreditation between 14 and 16 February 2022. NAAC accorded CGPA of 3.65 out of 4.0 points scale with A++ Grade to the University. In this context, Dr.V. Bharathi Harishankar, Vice-Chancellor, Avinashilingam University dispensed a testimony to the Foundation on April 18, 2022.



Donation...

NSF donated Rs 10,000/- and Rs.5,000/- towards the noble cause of Nature Conservation and Environmental Protection and construction of Church building, respectively, to CSI Anthiyur Church, Coimbatore District.



Audits by Nature Science Foundation

A couple of audits conducted at various educational institutions by NSF during the period between April and June are presented hereunder.

Environment and Energy audits were conducted concurrently at Jyoti College of Management of Science and Technology affiliated to MJP Rohilkhand University, Bareilly, Uttar Pradesh on April 16, 2022. A team of certified auditors from Nature Science Foundation includes Er. Ashutosh Kumar Srivatsava, Dr.R. Sudhakaran, Dr.B. Shreeram, Dr. Shohini Singh, Dr. Tanu Allan and Ms. Kushi Srivatsava conducted the audits. Opening meeting among the audit team and auditees was held wherein the importance of audits and planning and organizing the energy and environment audits followed by walk-through audit and so on. Dr. Charu Tripathi, NAAC Coordinator guided the NSF Auditors. At the end of the exit meeting, recommendations for further improvement/adoption on the basis of data collected from the organization were deliberated.

Comprehensive audits (Green Campus, Environment, Energy and Hygiene audits) were performed at M.A.M School of Engineering, Tiruchirapalli district, Tamil Nadu on April 28. Dr. D. Vinoth Kumar, Ms. V. Sri Santhya, Dr.S.Pirathiba and Dr. Nagadeepa directed the audits. Prior to the audit, an opening meeting was organized where the Lead Auditor explained the importance of educational institution campus audits and to upkeep the environment clean and tidy besides maintenance of documents for verification. With the support of concerned auditees Dr. Lily Florance, IQAC Coordinator, comprehensive audits were conducted adopting the predetermined norms inclusive of walk-through audit, data generation, document verification, etc. On the basis of observed and evidenced things, an exit meeting was conducted where “Pros” and “Cons” were discussed and

recommendations for further upkeep of the College Campus was presented.

A set of audits (Green Campus, Environment and Energy audits) were executed at Sree Abirami Arts and Science College for Women, Gudiyattam, Vellore, Tamil Nadu on May 13. Dr. Mary Agnes, Dr. D. Vinoth Kumar, Dr. A.Thangavelu and Dr. A. Antony Raj led the audits. In an opening meeting the Lead Auditor expressed the significance of audits and the necessity to upkeep the protected environment. With the cooperation of designated auditees walk-through, campus audits were conducted adopting the programmed norms. To conclude the audit performance, an exit meeting was conducted wherein observed findings were discussed and necessary steps to be taken in the future to “Go with Green”.

Environment audit, Waste Management audit and Academic and Administrative audit were conducted at Dr. C.V. Raman University, Bilaspur, Chhattisgarh on May 18. Dr. D. Vinoth Kumar, Dr. Ashutosh Srivatsava and Dr. Suresh Babu conducted the audits. The lead Auditor explained the audit procedures to the auditees particularly Dr. Jyothi Mithra, IQAC Coordinator followed by walk-through audit, interaction with members and document verification adopting the standard norms. During the concluding session, the outcome of the audit was presented and strategies required for the sustenance of the protected environment.

A set of audits inclusive of Green Campus, Environment and Energy audits were executed at Happy Valley Business School, Coimbatore, Tamil Nadu on June 18 where Dr. D. Vinoth Kumar, Dr. R. Many Josephine, Ms. V. Sri Santhya, Dr. N. Saranya, Dr. N. Shani, Ms. M. Nithya and Ms. R.S. Thulaja were engaged in audits. In the opening meeting the Lead Auditor described the significance

of audits and how the audit is to be performed on the campus. Auditees (Mr. Santhosh, IQAC Coordinator) were thoroughly interviewed and verified the documents maintained by them besides the walk-through audit. In the end exit meeting was conducted where suggestions for improvement of existing facilities were presented and discussed.

Academic Administrative Audit, Eco Audit and Waste Management Audit were performed at Adichunchanagiri Institute of Technology, Chikkamagaluru, Karnataka by the certified auditors of Nature Science Foundation, Dr.D. Vinoth Kumar, Ms.V. Sri Santhya, Dr. Sibichakravarthi and Ms. M. Nithya on June 22. In the opening meeting, the significance of audits, document verification and tentative schedule of the audit was presented before the auditees Dr.C.T.Jayadeva, Principal and Dr. Prakash Roa, NAAC Steering Committee Head. Auditors interacted with Officers-in-charge and verified the documents followed by a walk-through audit. Possible suggestions were given to the Institute Authorities to undertake to improve the existing facilities further

Hindustan Institute of Technology and Science, Chennai, Tamil Nadu undertake Green Campus, Environment and Energy Audits on June 24. A team of auditors (Dr.D. Vinoth Kumar, Dr. P.K. Dhannalakshmi, Dr. M. Sudheer, Dr. D. Dinesh Kumar, Dr. Asif Jamal and Dr. Amzad Basha Kolar) from Nature Science Foundation, Coimbatore visited the Institute and performed the audits. As per protocol, the opening meeting was organized where the lead auditor summarized the procedures to be followed in the audits and their significance. This was followed by a walk-through audit, verification of documents and interaction with designated authorities. With the cooperation and support of the auditees, particularly Dr. D. Karthikeyan, Associate Professor, audits were completed. On completion of audit



During opening meeting at 1. Jyoti College of Management of Science and Technology, Bareilly, 2. MES Mampad College, Kerala, 3. Sree Abirami Arts and Science College for Women, Vellore, 4. Dr.C.V. Raman University, Bilaspur, Chhattisgarh, 5. Happy Valley Business School, Coimbatore, 6. Adichunchanagiri Institute of Technology, Chikkamagaluru, Karnataka and 7. Hindustan Institute of Technology and Science, Chennai

observations, an exit meeting was conducted wherein recommendations/ suggestion for the improvement of existing facilities were delivered to conserve the protected environment.

Comprehensive audits (Green Campus, Environment, Energy and Energy audits) were performed at Vijayanagara Sri Krishnadevaraya University on June 27. Dr. D. Vinoth Kumar, Dr. P.K. Dhanalakshmi, Dr.

M. Sudeer, Dr.D. Dinesh Kumar, Dr. G. Asif Jamal and Dr. Amzad Basha Kolar executed the audits. Prior to the audit, an opening meeting was organized where the Lead Auditor explained the importance of audits in educational institutions and protocol/audit procedures. With the support of concerned auditees (Dr.B. Uma Reddy, Associate Professor & Chair Person, Department of Studies in Botany and

Dr. Sneha, Assistant Professor & Chair Person, Department of Studies in Zoology), comprehensive audits were conducted adopting the predetermined norms inclusive of walk-through audit, data generation, document verification, etc. On the basis of observations, an exit meeting was conducted in which recommendations were presented for the sustenance of University Campus.

Webinar Session on lead auditor's Course

A Five days Lead Auditor course on "Environment Management System, Green Campus, Energy and hygiene Audits" organized by Nature Science Foundation between May 9 and 13 through the virtual forum, Google Meet. The course will help the participants to understand and enhance their knowledge of the basic concept of eco-friendly environment and energy saving opportunities for educational institutions and industrial sectors besides auditing opportunities/risk assessment. There were 103 participants belonging from educational institutes and industrial sectors located in different parts of the country.

The day I (May 9) session begins with a prayer song by Ms.R.S. Thulaja, Program Officer, followed by welcome address by Dr.V. Vinoth Kumar, Joint Director, NSF, Presidential Address by Mrs.S. Rajalakshmi, Chair Person, NSF and Inaugural Address by Dr.B. Mythili Gnanamangai, Vice Chair Person, NSF. The Inaugural secession concluded with a vote of thanks offered by Ms. V. Sri Santhya, Assistant Director.

Maid-in lecture, "How to conduct green campus audit as per Indian Green Building Council (IGBC) guidelines and NSF ISO checklist" was delivered by Dr. B. Mythili Gnanamangai while Mr. Sampath Kumar, Senior Counsellor, Confederation of IGBC, Hyderabad, Telangana briefed the "Role of the confederation of Indian Industry – IGBC to sustain an environment conduciveness to the

development of India followed by the lecture on "Importance of green campus audit at educational institutions" was presented by Ms. V. Sri Santhya.

Day II (May 10) session started with a lecture on "Environment-friendly campus" by Dr. R. Srinivasan Iyer, Associate Professor in Commerce (Management & Marketing), Jain University, Bengaluru and Er. Ashutosh Kumar Srivastava, Board of Directors, NSF (Central Zone), Coimbatore presented on "Carbon footprint calculation and implementation" while "Importance of Environmental Audit" was explained Smt. Surekha R. Deshpande, Assistant Professor in Zoology, Basaveshwar Science College, Bagalkot, Karnataka.

Third-day session (May 11) started with a lecture on "Energy Conservation Act & Energy Conservation Building Code" by Er. D. Dinesh Kumar, Sustainability Consultant, Inspire Engineering Consultant, Chennai. Dr. G. Muruganath, Professor & Head, Department of Electrical & Electronics Engineering, Ahalia School of Engineering & Technology, Palakkad, Kerala delivered a lecture on "Energy auditing procedures & Steps involved in energy audit" followed by Dr. P. Thirumoorthi, Professor, Electrical & Electronic Engineering, Kumaraguru College of Technology, Coimbatore explained the "Energy conservation and saving opportunities". The fourth day (May 12) session was commenced with a lecture,

how to conduct hygiene audit as per NSF ISO checklist" by Dr.N. Saranya, Director, Centre for Skill Development, Nehru Arts and Science College, Coimbatore. On the other hand, "Personal and environmental hygiene & audit procedures" was dealt by Ms. Gaanappriya Mohan, Senate Member, Saint Teresa University, Caribbean, USA followed by a lecture on "Phases and components of soil and water audit" by Dr. Helen Roselene Thomas, Associate Professor & Head, Mount Carmel College (Autonomous), Bengaluru.

The fifth day (May 13) session started with a lecture, "Importance of environment management system on ISO 14001:2015 to educational institutions and industrial sectors" by Dr.K. Jagatheesan, Associate Professor, Centre for Research in Botany and Biotechnology, Thiagarajar College (Autonomous), Madurai. Dr. S. Pavithra, Guest Faculty, School of Management & Entrepreneur Development, Bharathiar University, Coimbatore delivered "Audit procedures and target areas of environment auditing".

Finally, Ms. V. Sri Santhya presented the activities of NSF. Prior to the valedictory function, an online examination and feedback session was conducted. Valedictory Address delivered by Er. Ashutosh Kumar Srivastava where acknowledge the cooperation rendered by the resource persons, Research Scholars, Faculty members and students throughout the webinar event.

NSF Publications...

1. Vinoth Kumar, D., Pirathiba, S., Rajalakshmi, S., Sri Santhya, V., Saranya, N. and Anirudhan, B. 2022. A case study on water management strategies documented under environmental audit at Nehru Arts and Science College, Coimbatore, Tamil Nadu, India. *International Journal of Current Advanced Research* **11: 5(C)**: 960-964.
2. Mythili Gnanamangai, B., Rajalakshmi, S., Ashutosh Kumar Srivastava, Sudhakaran, R., Muruganath, G. and Thirumoorthi, P. 2022. Energy audit procedures and energy savings opportunities in educational institutions and industrial sectors. *International Journal of Advanced Research*. DOI: 10.21474/IJAR01/14744. DOI URL: <http://dx.doi.org/10.21474/IJAR01/14744>.
3. Rajalakshmi, S., Sri Santhya, V., Priya, M., Saranya, N. and Lingeswaran, P.K. 2022. Hygiene audit procedures and assessment of personal and environmental hygiene in an organization. *Journal of Emerging Technologies and Innovative Research* **Vol. 9 Issue 5**. www.jetir.org (ISSN-2349-5162).

International Yoga Day, June 21

In commemoration of International Yoga Day, the International Eco Club Student Chapter of Nature Science Foundation, Coimbatore organized a Webinar session on June 21 where student members from various educational institutions from Tamil Nadu (KSR Institute of Engineering and Technology, Trichengode, Nehru College of Arts and Science & SNMV College of Arts and Science, Coimbatore, St. Josep's College for Women, Trippur), Karnataka (Kirupanithi Degree College) and Chhattisgarh (Dr.C.V. Raman University) have actively participated.

A welcome address was delivered by Ms. R.S. Thulaja, Programme Officer, Nature Science Foundation, Coimbatore followed by the Demo and Lecture on "Yoga" by the Yoga Therapist, Mr. Kannan Surenthiran. He initiated the demo with meditation and he explained

International Eco Club Student Chapter of Nature Science Foundation



INTERNATIONAL YOGA DAY
Topic : Yoga
21 JUNE 2022

Time: 5 to 6 Pm
Mode: Google meet

Resource Person



**MR. KANNAN SURENTHIRAN
YOGA THERAPIST**

Eco Club Student Chapter's



the need for practicing yoga, quality of mind, mental clarity and keeping calmness in all situations. His talk pointed out the importance of yoga and its usefulness in relieving depression/anxiety and keeping the mind relaxed. In other words, it is an important source of exercise and healthy activity; millions join in and

practice yoga as a daily routine. For many, these activities are a way to connect the body, mind and soul in a way that has that has existed for centuries. At the end of the Webinar session, Ms. S. Kavi Malar, Programme Officer, Nature Science Foundation, Coimbatore delivered the vote of thanks.

Memorandum of Understanding



Nature Science Foundation, Coimbatore signed MoU with Nehru Institute of Engineering and Technology, Coimbatore on June 7 which is intended to facilitate a collaborative R & D activities on nature protection which includes fundamental academic research, conducting various training programmes, seminars and workshops. Both parties proposed to undertake collaborative initiatives on extension activity for tribal children and women entrepreneurship among the tribal community. The MoU was signed in the presence of Deans and Directors of various Department.



International Eco Club Student Chapter

The aim of the International Eco Club Student Chapter is to inculcate awareness among the students, particularly proliferating generation, and involve them in nature conservation and environmental protection activities further celebrating National and International level events pertaining to the sustenance of a healthier environment.

In this context, International Eco Club Student Chapter was established at St. Joseph's College for Women, Trippur on May 11. Dr.

R. Mary Josephine, Principal graced the inaugural function where certificates were distributed to the students.

International Eco Club Students Chapter was incepted at Dr.C.V. Raman University, Bilaspur, Chhattisgarh on May 18. In the inaugural function, Vice Chancellor distributed certificates to the Eco Club Student members



CSR Meet

Sangamas International Foundation and National Innovation and Startup Policy (NISP) of Nirmala College for Women (Autonomous) Coimbatore organized CSR meet on CSR funding available for 2022-2023 and 2023-2024 through PMP projects in 12 sectors inclusive of Nature Conservation and Environmental Protection. Nature Science Foundation officials, NGOs and representatives from various colleges attended the CSR meet on June 6 at Nirmala .

National R & D organization, Council of Scientific and Research (CSIR) contributing towards human resources development through various grants, fellowships, projects, etc. After the welcome address, Dr.S. Murugesan, President, IOFA, Dr. Micheal Anjello Jothi Rajan, President, SEEPF and Suresh S. Devan, Strategic Analyst presented activities of CSIR sectors, innovative ideas, R&D growth, learning developments in life

science incubation centers. Resource persons were also briefed on the trends and technologies for PMP – AVAZA, project management planning in data science, Industry 4.0, advanced stimulation in A.I. and M.L., Industrial Automation and edge technologies. About 50 participants from various institutions and NGOs gained knowledge about start-up and how to avail funding from various funding agencies (ICSSR, DBT, CSIR, TNSCST and DST).

Meeting on PMP projects

A meeting organized by Sangamaa's International NGO on CSIR funding through PMP projects was held on May 28 at Divyodaya 91, Geetha Hall Road, Coimbatore. Mr. Sugeesh S Devan, Strategic Analyst elucidated the CSR Projects 2022-2023 and 2023-2024 besides PMP projects. WEMAAA team has conducted intense research incorporates on CSR process and their interest to connect and integrate with NGOs for better programs/projects. NSF Officials attended the meeting which served as a platform to widen their knowledge of CSR projects.



Forth coming events...

Nature Science Foundation, Coimbatore is planned to organize a "Lead Auditor Course" for Engineering and Technology Staff and Students during September 26-30, 2022.

*Glimpses of photos reflecting NSF activities...
Honoring the Deann of Avinashilingam University*



Planting of Tree Saplings

Planting of tree samplings at Nehru Institute of Technology, Coimbatore by NSF on June 07



About 70 saplings planted at Nehru Arts and Science College on October 3, 2021 to establishe Miyawaki forest by NSF Officials along with college representatives



Established Miyawki forest trees at Nehru Arts and Science College after eight months during Nature Science Foundation Officials visit on June 7