

International Conference  
On  
**NATURAL SCIENCE AND GREEN TECHNOLOGIES  
FOR SUSTAINABLE DEVELOPMENT (NTSD-2022)**

30<sup>th</sup> November, 1<sup>st</sup> and 2<sup>nd</sup> December, 2022

Venue: Goa University, Taleigao Plateau, Goa

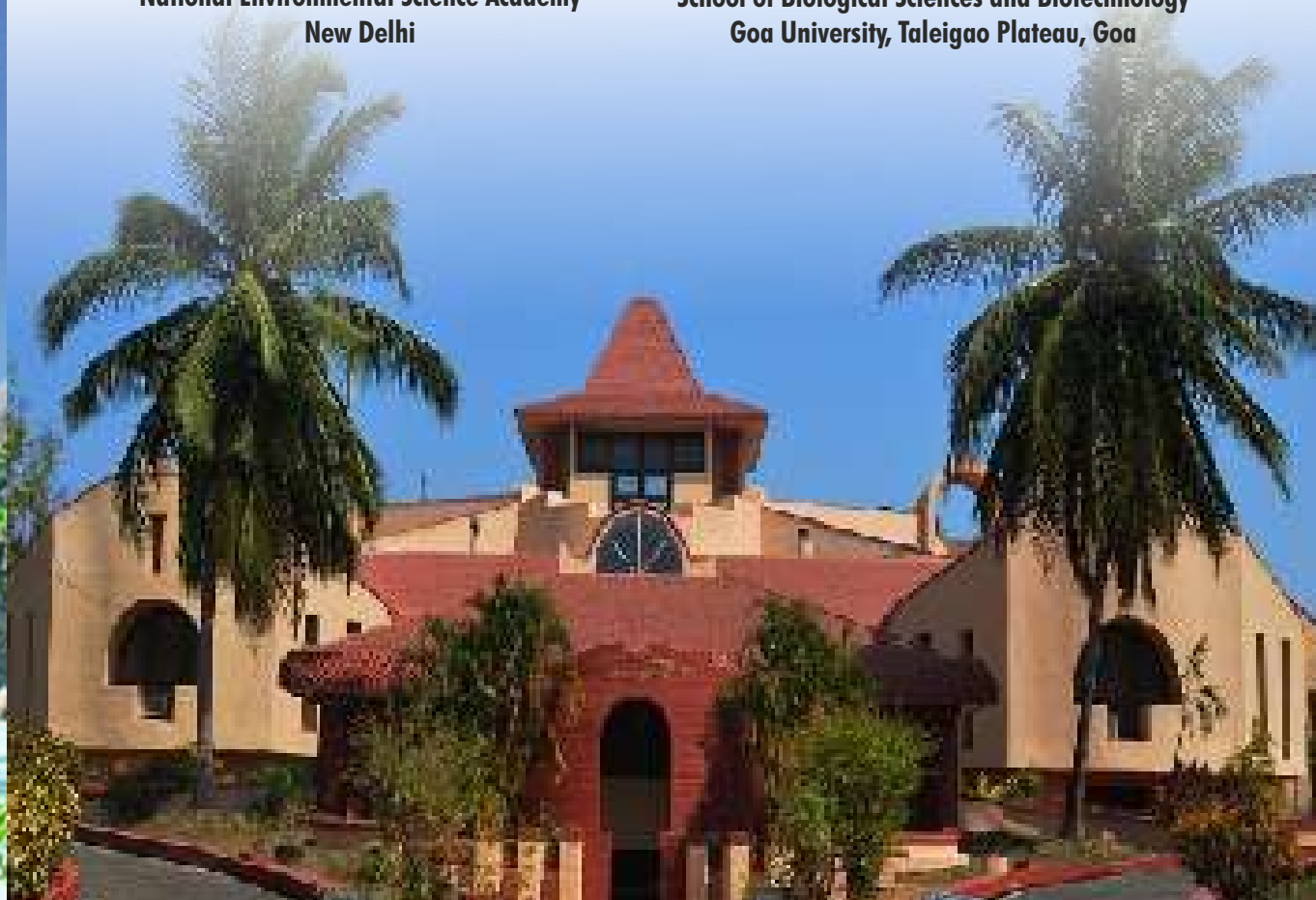
**Jointly Organized by**



**National Environmental Science Academy  
New Delhi**



**School of Biological Sciences and Biotechnology  
Goa University, Taleigao Plateau, Goa**



## About the Conference

Natural science is one of the branches of science concerned with the description, understanding and prediction of natural phenomena. Natural science can be divided into two main branches: life science and physical science. Life science is alternatively known as biology, and physical science is subdivided into branches: physics, chemistry, earth science, and astronomy. These branches of natural science may be further divided into more specialized branches. Environmental technology or green technology, also known as clean technology, is the application of one or more of environmental science, green chemistry, environmental monitoring and electronic devices to monitor, model and conserve the natural environment and resources, and to curb the negative impacts of human involvement. Sustainable development is the core of environmental technologies. Sustainable development is an organizing principle for meeting human development goals while also sustaining the ability of natural systems to provide the natural resources and ecosystem services on which the economy and society depend. The desired result is a state of society where living conditions and resources are used to continue to meet human needs without undermining the integrity and stability of the natural system. Sustainable development has shifted its focus more towards the economic development, social development and environmental protection for future generations.

In 2015 the United Nations General Assembly adopted the Sustainable Development Goals (SDGs) (2015 to 2030) and explained how the goals are integrated and indivisible to achieve sustainable development at the global level. It is essential that an appropriate model of green building be used by the administrators and professionals. The global problems of environmental degradation have forced the society to rethink about the way of development and evolve the concept of sustainable development. Indeed, the new environmentally friendly technologies are fundamental to attain sustainable development. Various green initiatives are being taken to maintain and improve the quality of environment that might flourish on the new resource efficient and sustainable thinking society of the future.

The conference will feature renowned speakers representing both academia and industry who are renowned experts in green technologies for sustainable development.

## Conference Objectives

This conference focus on technological advancement to curb the environmental pollution and proposes solutions to adopt the green technologies for sustainable development.

## Sub Themes of the Conference

2022 invites papers with the following sub themes

- ❖ **Air Pollution and Mitigation**
- ❖ **Water Pollution and Mitigation**
- ❖ **Biotechnology and Environment**
- ❖ **Agriculture and Environment**
- ❖ **Environmental Risk Management and Environmental Protection**
- ❖ **Environmental Sustainability and Development**
- ❖ **Renewable Energy and its scope**
- ❖ **Climate Change mitigation**
- ❖ **Climate Smart Agriculture**
- ❖ **Bioremediation**
- ❖ **Environmental Microbiology**
- ❖ **Soil Pollution and Mitigation**
- ❖ **Waste Management**



- ❖ **Biodiversity Conservation**
  - Tiger Conservation safety measures • Endangered Species of Wild Flora & Fauna
- ❖ **Wastewater utilization and Mitigation**
- ❖ **Innovative Technologies Developed and Practiced to limit the impact of the Pandemic**
- ❖ **Impact of COVID-19 and other aspect of Health and Disease**
- ❖ **Role of Higher Education to meet the Sustainable Developments Goals**
- ❖ **Health effects of Environmental degradation**
- ❖ **Presentation on theoretical, methodological and case studies on the aspects of theme as well as related areas are welcomed**

## About the Organizers

### **The School of Biological Sciences and Biotechnology (SBSB), Goa University, Goa**



The School of Biological Sciences and Biotechnology (SBSB) was established in May, 2022 merging four Disciplines to form the School of Biological Sciences and Biotechnology. Goa being a coastal state, in proximity to the Western Ghats, a biodiversity hot-spot, provides several unique ecosystems for research.

The focus of amalgamation of the four departments was

to bring fundamental and biological science Departments under one umbrella to provide the students a platform for interdisciplinary research.

Individually in the past, the departments have evolved in a step wise manner. The Department of Microbiology established in 1974 was a part of the Centre of Post-graduate Instructions and Research (CPIR) of the University of Mumbai in 1985, it became a full-fledged Department of the then newly founded Goa University. The Department of Botany and the Department of Zoology, were both established in 1990, became full-fledged Departments of the Goa University providing students with a opening for the Master's programme in Botany and Zoology. The Department of Biotechnology, one of the pioneer in Marine Biotechnology (1998) teaching and research in the country, became full-fledged Department of the Goa University in the year 2003. Subsequently, a new M.Sc. and Ph.D. Programme in Biotechnology were established. The Marine Biotechnology programme has been continuously funded by the DBT, Government of India. The four departments in the School of SBSB have come together to multiply their strengths and carry out effective interdisciplinary teaching and research in biological sciences. Equally, an important aspect of biological sciences, namely Home Sciences and Wildlife studies have been integrated to further gain in-depth knowledge of biological sciences.

The focus of the school is to provide quality education and research in biological sciences through an integrated approach with a view to create well trained human resource to handle the upcoming challenges in a sustainable manner and to apply the knowledge to the welfare of the society.

## **National Environmental Science Academy (NESA), New Delhi**

This ACADEMY is registered by the provisions of Societies Act XXI of 1860 under the Government of Bihar in 1988, presently has its headquarters at 206, Raj Tower-1, Alaknanda Community Centre, New Delhi. The main objective of the Academy is to bring awareness about environmental issues among the masses by arranging lectures, workshops, training programmes, seminars, symposia, conferences, publishing journals, etc.

### ***Aims Objectives and Functions of the Academy***

- **To implements the SDDGs in India by encouraging students, scientists, researchers, academicians and members of the academy for pursuing research on sustainable development.**
- **To set up Regional/State Chapters for dissemination of information on environment.**
- **To motivate and prepare young minds on environmental management.**
- **To organize national/international level conferences, symposia, seminars, meetings and workshops on themes of environmental concerns.**
- **To publish policy papers, synthesis volumes, proceedings, journals, newsletter, transactions and other publications for the promotion of Environmental Sciences.**
- **To forward the recommendation of scientists /professors to govt. agencies.**

Various eminent personalities have graced the Academy as President. The first President of the Academy was Dr. K.C. Bose, Vice-Chancellor of Ranchi University; then Dr. B.S. Attri, Advisor, Ministry of Environment and Forest. Most recently Padmabhushan Dr. S.Z. Qasim was the President of the Academy till June 2015, who is a renowned marine scientist known for his Antarctica mission in 1981-82, he also served as the Secretary at the Deptt. Of Ocean Development (now Ministry of Earth Sciences); Member, Planning Commission and Vice-Chancellor, Jamia Millia Islamia, New Delhi. Currently Prof. Javed Ahmad, (Former Dean, Faculty of Science), Jamia Hamdard, New Delhi, is the President of the Academy.

### **Annual Awards**

The Academy recognizes the merit and achievements of individuals who have contributed to the field of environmental science, education and societal values by conferring (1) NESA FELLOWSHIP OF THE YEAR AWARD (2) NESA EMINENT SCIENTIST OF THE YEAR AWARD (3) NESA SCIENTIST OF THE YEAR AWARD (4) NESA ENVIRONMENTALIST OF THE YEAR AWARD (5) NESA GREEN TECHNOLOGY INNOVATIVE AWARD (6) NESA DISTINGUISHED SCIENTIST OF THE YEAR AWARD (7) WOMEN EXCELLENCE OF THE YEAR AWARD (8) NESA YOUNG SCIENTIST OF THE YEAR AWARD (9) NESA JUNIOR SCIENTIST OF THE YEAR AWARD (10) NESA BEST RESEARCHER AWARD (11) NESA BEST PHD THESIS AWARD. Any life member of the Academy can apply for the awards. For more information please, log on to our website: <http://nesa-india.org/award-form-submission/>

In addition, the Best Oral Presentation and Best Poster Awards are given away during the Annual Conference of the Academy.

### **Publications**

The Academy is publishing the following Journals (Biannual):

- 1) **INTERNATIONAL JOURNAL ON AGRICULTURAL SCIENCES**
- 2) **INTERNATIONAL JOURNAL ON ENVIRONMENTAL SCIENCES**
- 3) **INTERNATIONAL JOURNAL ON BIOLOGICAL SCIENCES**
- 4) **INDIAN JOURNAL OF UNANI MEDICINE**  
<http://nesa-india.org/nesa-journal/>
- 5) **E-NESA Newsletter (Monthly)** <http://nesa-india.org/newsletter/>



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## Call for Abstracts and Full Length Papers

The participants are invited to submit their abstracts and full length papers on the theme and sub themes of the Conference. The abstract should be within 250-300 words in English font 'Times New Roman' with size of '12'. The full length paper should be within 3000-4000 words in length, including an abstract (about 300 words) and 4-5 keywords. The abstracts will be released in 'Souvenir and Abstract Book' on **30<sup>th</sup> November, 2022** in the Inaugural Session of the Conference, while selected full length papers will be published in NESA Journals or ISBN Book. The participants may send their abstracts by 30<sup>th</sup> September, 2022 and full length papers by **30<sup>th</sup> September, 2022** online to [nesagoaconference2022@gmail.com](mailto:nesagoaconference2022@gmail.com) the participants may present their papers in the Conference by oral/poster.

## Poster Presentation

Papers are invited for poster presentation.

The poster should be related with the topic and sub themes of the Conference. The poster size should be 2x3 feet.

## Conference Award

The Organizing Committee of NTSD-2022 will confer the following awards during the conference:

1. **Best Oral Presentation Award**
2. **Best Poster Presentation Award**
3. **Related to Topic (Best Idea on GREEN TECHNOLOGIES and SUSTAINABLE DEVELOPMENT)**

## Accommodation and Transport

The Organizing Committee of the NTSD-2022 will arrange some rooms in the guest house near the venue for the invited speakers, guests and paper presenters. The organizing committee will guide / facilitate this process if contacted in advance. Interested participants may email on [nesagoaconference2022@gmail.com](mailto:nesagoaconference2022@gmail.com) for their requirement regarding the accommodation.

Please contact to the Conference Volunteers for accommodation and local transport. The details are given below:

Sl. No.	Name	Contact Number
1.	Gian C. Kashyap (NESA)	9811238475 / 9811238995
2.	Rakesh Kumar Roy (NESA)	9971383650

## Important Dates

Conference Dates	30 <sup>th</sup> November, 1 <sup>st</sup> and 2 <sup>nd</sup> December, 2022
Registration and Abstract Submission Starts:	01.09.2022
Last Date of Registration without late payment:	30.09.2022
Abstract submission Deadline:	05.10.2022
Full length paper submission Deadline:	15.10.2022

*Note:* The above dates are mandatory and strictly followed by Organizing and Publication Committee.

## Registration

	Regular Registration (Till 30.09.2022)	Spot Registration (After 30.09.2022)
Distinguished Faculties/ Scientists	Rs. 4000.00	Rs. 4500.00
Research Scholars	Rs. 2000.00	Rs. 2500.00
Students (PG)	Rs. 1000.00	Rs. 1100.00
Corporate Delegates	Rs. 6000.00	Rs. 8000.00

## Payment

Name	:	National Environmental Science Academy
Bank Name & Address	:	Bank of Maharashtra, Kalkaji Branch, New Delhi-110 019
Account Type	:	Current Account
Bank Account Number	:	60109889476
IFSC Code	:	MAHB0000974

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