



## CENTRE FOR GREEN ENERGY

### 1. Vision, Mission and Objective

- Year of Establishment: 2019

#### **Vision:**

- A Clean, healthy and well protected environment supporting a sustainable society and Economy.

#### **Mission:**

- To pass on a prosperous planet for future generations
- To protect and improve the environment as a valuable asset
- To empower our student community towards protection and conservation of the environment.

#### **Objective**

- To identify sites the campus for the greening initiatives
- To monitor the functioning of waste management system.
- To motivate the student community to involve in the environment protection and conservation through various activities.
- To conduct various awareness programmes through seminars, webinars etc. that will help in understanding the current scenario.



  
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## COMMITTEE MEMBERS

S. No.	Name of the Unit	Name of the Faculty Coordinator
1.	Rain Water Conservation	Dr. R. Kasimani
2.	Solar Energy and Solar Vehicle	Mr. Tony Dhiwahar
3.	Biogas Unit and Solid Waste Management	Dr. Vinoth Kumar
4.	Ornithology Club	Dr. Dhanalakshmi
5.	International Eco Club	Dr. N. Saranya
6.	Eco-Club	Dr. E. Vijaya Gowri
7.	Herbal Garden	Dr. O.S. Nimmi/ Dr. M. Thangavel
8.	Green Audit	Dr. N. Saranya

### **Centre for Green Energy & Environment**

The Centre for Green Energy & Environment after its establishment in 2019 has successfully implemented various green initiatives in campus. As a part of the initiative herbal garden has been set up which now is a house for more than 150 medicinal plants. These plants have been taxonomically authenticated. To support the herbal garden a vermicompost unit also functions in the vicinity. The unit also supports a mushroom cultivation unit which also offers hands on training to the in-house and outside students. Green campus activities are rampant through Mission Clean campus programmes with the involvement of every department faculty member as well as the students to make the campus a clean and a plastic free zone. Maximum plant waste utilization for organic composting is made available by this initiative. Mission Clean City is also undertaken in public places such as Government Hospitals, Railway Stations and District Collectorate. International Eco Club Student Chapter has been established in the College by the Nature Science Foundation (NSF) and Student Coordinators and members from various departments have been inducted into the club. The College collaborates with NSF and jointly conducts National and International Webinars, Seminars and workshops for the College as well as



  
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the Public such as International Day for Biological Diversity, National Energy Conservation, Initiatives to make the Campus Eco-friendly, Diverse Opportunities for Youth in Technology Driven Farming, etc., deliberated by eminent speakers. Student Members voluntarily participates in various greening initiatives to create awareness among fellow students to promote, offer a sustainable solution for a safer environment. Several activities are conducted such as planting of saplings during special occasions and conducting awareness programs during importance days of celebration such as Earth Day, World Environment Day, World Soil Day and World Population Day to create awareness programs to students, faculty members, and public. Our institution has been recognized as an eco-friendly campus and certified with ISO 14001: 2004. The Centre has implemented a Rapid Forest Afforestation programme using Miyawaki Method and has received an Appreciation Certificate for actively taking part in establishing the new programme. Under the banner of Eco Recharge Project, a drive was carried out to identify, revive and further improve the campus environment. The unutilized land has been transformed into a horticulture garden with a modern drip irrigation facility. Various curriculum based EVS projects are carried out by the student groups to make a thorough analysis of the ecosystem and towards its improvement. They are given an insight into the various opportunities in the field of agriculture. The Institution also collaborates with High-Tech agricultural farms that adopts smart farming technologies like hydroponics which is a doorway to attract the students and help them to explore immense opportunities for student entrepreneurships, and undertaking research/ class projects, etc. Futuristic plan is underway for the Modernization of Herbal Garden that will support a Hydroponics model system, a Herbarium, a Herbal Plants micropropagation and Promotion Division through plant tissue Culture Techniques, Organic Pesticides formulation Division.

### **Solar Energy and Solar Vehicle Unit:**

The objective of the solar energy and solar vehicle unit is to empower the student community with basic fundamental knowledge to protect and rebuild the green earth atmosphere. Energy saving technologies is adopted and the campus is installed with street lights which are run on solar energy and LED lamps. Solar energy is radiant light and heat from the Sun that is harnessed using a range of ever-evolving technologies such as solar heating, photovoltaics, solar thermal energy, solar architecture, molten salt power plants and artificial photosynthesis. The unit



  
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has conducted 3 webinars to enrich the young mind and create awareness on the basic fundamentals of energy conservation and the mechanism behind this phenomenon, on the importance of hydrogen fuel in future. Through these events students gain knowledge on power saving, solar cell working, solar cell & battery maintenance, hydrogen splitting and how hydrogen can be effectively used for fuel. Solar energy and solar vehicle is very important for young generation to protect the earth. In future the unit plans to conduct various workshops for students on solar cell and solar vehicle assembling and introduce solar powered vehicles in the campus.

## **The Ornithology Club**

The Ornithology Club has taken steps to improve the habitat in college to attract more diverse bird species. Rapid Afforestation Forest program by Miyawaki method in the campus. The Ornithology Club also has taken steps to improve the avian population in the campus by installing feeders, waterers, and nesting boxes. The main role of Ornithology Club is to educate bird biology to younger generation and create awareness about the importance of conservation in young minds. Two invited talks (One virtual and another in-campus) were conducted and deliberated by eminent ornithologists from prestigious centres such as Salim Ali Centre for Ornithology and Natural History (SACON), Coimbatore regarding the importance of Ornithology and conservation of bird species. Birding and documenting birds visiting the campus is also practiced. The Club conducts art, sketching, and nature journaling competitions for students. The Ornithology club members also go on field trips to SACON and other areas rich in avian biodiversity. The Club has laid out future plans to increase the bird diversity in the campus and the nearby community such as to involve students in landscape management for wildlife, to set up more number of bird feeders that can supply variety of food items to meet their nutritional requirements, maintain more native patches of vegetation to support not only bird species but also insects and small mammal communities, MOU with major ornithology hub like SACON whereby the Scientists can guide the student community for management of Bird Diversity, invite Bird watchers to training students to be nature lovers and bird enthusiasts.

## **Rainwater Harvesting**

As a Green Campus initiative, the College has been aiming in making the campus independent of sustainable use of water. Through this initiative, a rainwater harvesting system has



  
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been installed which is facilitated with roof top harvesting and the water is collected through pipelines and is taken to the recharge pits which is present behind the campus. This harvested water helps in ground water recharge. The average rainfall in our surroundings is 152 mm. At present there are 2 Borewells and 1 Open well.

Future plan is to construct rain water harvesting in each building and recharge ground water. Rainwater harvesting and reuse of the water for the whole campus is in progress. This harvested water is planned to be used for Ladies hostel as well as to fulfil the campus requirement. This helps us to reduce dependency on bore water and make ourselves self-sustainable. It is also planned to harvest surface runoff water. This surface runoff water collected can be used for recharge of ground water.

### **Biogas Plant:**

Waste Management of kitchen waste through Biogas plant is done efficiently NASC campus has a functioning Biogas Plant which produces 3 Kg/day of biogas from 30 to 50 Kg of organic waste generated from kitchen and canteen. Biogas production represents a fascinating process for the recovery of nutrients and renewable energy from various organic waste streams, which can be done either by aerobic fermentation or by anaerobic fermentation. To cater to the increasing requirement for biogas and fertilizer, the College campus plans to upgrade the production unit to 50 Kg to 100 Kg capacity per day for waste conversion using a cheaper and efficient technology for an efficient and sustainable waste management system.

### **STUDENT MEMBERS- 2021-22**

S. No.	Department	Student List
1.	Biotechnology	Afsar Fathima Naizam
2.	Microbiology	Kalaivanan. V. K
3.	Commerce	Anjali. N
4.	English	Grace Albina.R



  
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S. No.	Department	Student List
5.	Business Administration	Mohammed Afsal H
6.	Computer Application	Anjali M Nair
7.	Catering Science and Hotel Management	Afsal. M
8.	Computer Science	Suji Suraji
9.	Costume Design and Fashion	Sandhiya P
10.	Food Science and Nutrition	Logesh S

## STUDENT MEMBERS- 2020-21

S. No.	Department	Student List
1.	Biotechnology	Reeba R
2.	English	Monisha M
3.	Business Administration	Anjali Biju
4.	Commerce	Sathya Priya S
5.	Commerce	Deva Prakash N
6.	Catering Science and Hotel Management	Niranjan. S
7.	Computer Science	Muhammed Shajidh. S
8.	Costume Design and Fashion	Ramkumar
9.	Microbiology	Shejeena S
10.	Visual Communication	Satyaprakash S



  
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## STUDENT MEMBERS- 2019-20

S. No.	Department	Student List
1.	Biotechnology	Santhiya V
2.	Visual Communication	Ratheesh R
3.	Costume Design and Fashion	Sandhiya Prabha D
4.	Social Work	Keertahana N
5.	Information Technology	Premkumar S
6.	Computer Science	Shahul Hameed I
7.	Biochemistry	Keerthana B
8.	Commerce	Ezhilmathi S
9.	Computer Application	Anagha S
10.	English	Manisha Bharathi. M

## ACTIVITIES OF THE CENTRE 2021-22

Name of the Unit	Date of Activity	Name of the activity	Outcome of the activity	No. of Beneficiaries
Eco Club	10.12.21 & 17.12.21	Field Trip - Eco Recharge Garden- I B.SC students	Developed various models on different ecosystems	26.
	15.12.21	EVS-BCA	Ideation for EVS Project	150
International Eco Club	09.12.21	One Herbal Plant Every Home” - Donation of Herbal Saplings	Awareness on the importance of Herbal plants	400



  
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## ACTIVITIES OF THE CENTRE 2020-21

Name of the Unit	Date of Activity	Name of the activity	Outcome of the activity	No. of Beneficiaries
Ornithology Club	07.09.2021	Biodiversity of Birds in India Webinar	Create awareness about Biodiversity of Birds in India	650
	16.07.2021	World Ozone Day Webinar	Awareness Webinar	350
International Eco Club	30.07.2021	World Nature Conservation Day	Create awareness about the need to preserve the environment and natural resources in order to keep the world healthy	470
	16.09.2021	World Ozone Day celebration	Spread awareness among Students about the depletion of Ozone Layer and find possible solutions to preserve it.	980
	29.09.2021	Initiatives to make the campus Eco-friendly	Understood the current resources available for an Eco-Friendly campus	500
	13.10.2021	Rapid Afforestation using Miyawaki Method was inaugurated	Understood the importance of Afforestation	720
	15.10.2021	World Students Day, Student Members of International Eco-Club Student Chapter planted the saplings in the campus	Learned the value of Afforestation	200



  
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Name of the Unit	Date of Activity	Name of the activity	Outcome of the activity	No. of Beneficiaries
Eco-Club	09.07.2021	Conducted Webinar on "Diverse Opportunities for Youth in Technology Driven Farming"	Insight into the various opportunities in the field of agriculture	850
	6.10.2021	Inaugurated the Eco Recharge Project by planting saplings. Principal Dr. B. Anirudhan, Deans and HoD's	Conversion of barren land into a fruit cafeteria and horticultural land	College
Green Audit	07.08.2021	Energy Audit	completed	College
	07.08.2021	Green Audit	Renewed for next 3 years	College
	20.11.2021	National IQAC Coordinators Meet on "Green and Energy Audit 2021"	Importance of Green and Energy Audit- NAAC	850

## ACTIVITIES OF THE CENTRE 2019-20

S.No.	Name of the activity	Outcome of the activity	No. of Beneficiaries
1.	Swatchhtha Ranking	Cleaning Campus was conducted	3385
2.	Jal Shakti Abhiyan	Awareness on need for Water conservation and strategies for Water Management	3385
3.	International Eco Club Students Chapter	Green Audit was conducted	1200



  
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