



SREE NARAYANA COLLEGE

(Affiliated to the University of Calicut)
NAAC Accredited with B Grade

Erattakulam P.O, Alathur 678682

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CRITERION: 3

**RESEARCH, INNOVATIONS AND
EXTENSION:**

INNOVATION ECOSYSTEM

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CRITERION	3: Research, Innovations and Extension
KEY INDICATOR	3.2- Innovation Ecosystem
METRIC NO	3.2.1 Institution has created an ecosystem for innovations and has initiatives for creation and transfer of knowledge (patents filed, published, incubation center facilities in the HEI to be considered)
FILE DESCRIPTION	<ul style="list-style-type: none">• Details of the innovative activities undertaken by the college during last 5 years

CONTENTS

1	Butterfly garden
2	Cloth bag distribution
3	Energy Conservation-Solar Panel, LED Lights, Biogas Plant
4	Ground water recharging
5	Incubation Cell
6	Weather forecaster
7	Organic waste management
8	Rain Shelter
9	Bio-diversity park
10	Wet-land conservation
11	Test details of water, air and soil

3.2.1- Innovative Ecosystem

Sree Narayana College Alathur, which is spread over two Panchayaths- Alathur and Kavasseri, is a rural college catering to the educational needs of socially and economically backward students. Since its inception, the college has been in the forefront for taking initiatives in new and innovative activities, whether it be in the field of academics, areas of environment conservation or skill acquisition.

Butterfly Garden- In-situ conservation

The Zoology department of the college maintains butterfly garden for the in-situ conservation of different variety of butterflies. As the college is in Palakkad district, which is infamous for the heat in summer, the department takes special care to maintain the greenery there.





Cloth bag distribution:

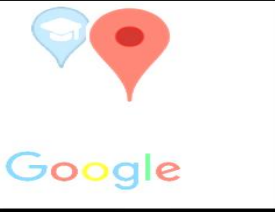
The biodiversity club of the college in association with Zoology department distributed cloth bags among the people of Alathur and Kavasseri panchayath. This event was part of an awareness program on the need to avoid plastics to save our mother planet. The students themselves manufactured the bags from their home, wrote quotes on it from the college and distributed the same by themselves to the nearby shop owners.





Energy conservation: Solar Panel, LED Lights, Biogas plant

Palakkad is a district which gets abundant sunlight through-out the year. In order to reap the benefit of this and as an initiative to reduce the mounting electricity bills, the college has installed solar panel, solar lights and LED bulbs. The college is also maintaining its own biogas plant.



Erattakulam
Vaniyampara Rd,
Kavasseri-II, Kerala
27 Jul 2022 11:51 AM


broken
clouds
32.0



SOLAR LIGHT



Ground water recharging

The NSS units of SN College, in collaboration with 'Dhisa', planned to implement ground water recharging units in various schools in Alathur. For the same a technical team from Centre for water Resources Development and Management (CWRDM), Calicut, under the guidance of Dr. Harikumar P. S, Head & Senior Principal Scientist, Water Quality Division visited our college on 21. 12.2018 and trained our volunteers. The technical sessions were handled by Sri. Sasidharan Pallikudian, Technical officer, Construction & Maintenance Wing.

The process

A brief description of the process is as follows: Rain water collected from the roof with PVC Sheets and is then sent to a filtration unit through PVC pipes. The filtration unit consist of a tank of 1000-2000 litre capacity depending on the catchment area, three different layers the top layer consist of tiny gravels or sand for sedimentation of large sized particles, the middle layer consists of charcoal for adsorbing chemical contaminates if any present and the bottom layer consist of large gravels. Each layer is separated from the other with nylon nets. Each layer

consists of 15-20 cm height depending on the contamination level of the atmosphere. After filtration the pure water is allowed to flows either to an open well or bore well.





Incubation Cell

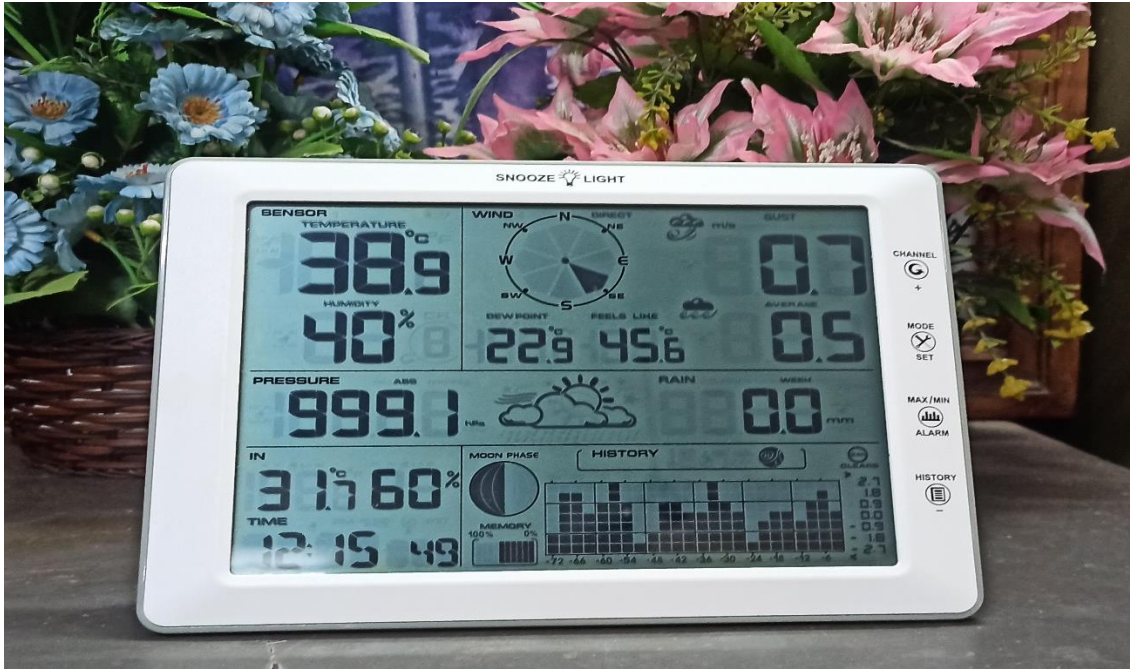
The institution has registered itself with the Institutions Innovation Council during the year 2021-22. But before that itself the college has been active in incubation related activities. The Chemistry department of the college has taken initiative in manufacturing soap and allied products. The Botany department has taken initiative in cultivating mushrooms and selling it among the college staff and students.





Weather Forecaster:

In coordination with NABARD, a weather forecaster has been set up in the college. It helps to understand the climatic conditions in this area. It is useful to the students as well as the community.



Organic Waste Management

Solid waste management division of IRTC Mundur works on the production and distribution of solid waste management devices. The division is having a wide range of products which is suitable for organic waste management in various levels like household, community and institutions. They are kitchen bin, Bio compost bin, Bucket compost and portable biogas plants with various capacities. As part of the extension activity of the department of Botany, the students of the department were taken to IRTC Mundur to familiarise them with the various methods of organic waste management. Understanding the significance of waste management, the department takes initiative to familiarise each batch of students with the waste management techniques.



23/12/2019

Rain Shelter

Department of Botany in collaboration with Krishi Bhavan Kavasseri has constructed rain shelter for the vegetable garden in the campus. The vegetable production in this locality is badly affected by heavy rainfalls during the monsoon period. Rain shelters is a cost effective method for preserving the vegetable sapplings from heavy rain. The department distributes the harvested vegetables to the college hostel.



Bio diversity Park

Sree Narayana College, Alathur which is situated in a serene environment of Palakkad district has a 25acre campus. The college has maintained a bio-diversity park which has different varieties of flora and fauna.



Wet land Conservation:

As a part of developing environment consciousness, the NSS volunteers were involved in cleaning the nearby Thennilapuram, Gayathri River, and other nearby water bodies.



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Apart from all these activities, various department of the college conducts socially responsible surveys and studies which will help the local community. The department of Microbiology conducts water, air and soil test each year and give suggestions to the local committee regarding the pollution level and the nature of fertilizers to be used.

- **WATER QUALITY ANALYSIS:**

Microbiology department conducted a water quality analysis test to identify the portability of drinking water from different areas. Based on the result, public awareness were given to drink boiled water, filter water or chlorinated water.

- **AIR QUALITY ANALYSIS:**

Air contains a variety of micro-organisms, the actual types and numbers depends upon the environment considered. This experiment shows variations in the microbial contents in the air due to sweeping and dusting. The information gained from this type of experiment can be used in microbiology laboratories to have an idea of the contaminants where isolation and culturing experiments are carried out in an atmosphere of still air.

- **SOIL QUALITY ANALYSIS:**

To isolate and enumerate viable microbial cells present in the soil near the laboratory effluent discharge system by spread plate method.



SREE NARAYANA COLLEGE ALATHUR

P.O. Erattakkulam, Pin – 678 682, Kerala, India
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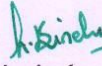
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Dr. R Bindu M.Sc., Ph.D
Principal

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Date: 20.04.2023

All the above documents are correct and true to the best of my
knowledge.


Principal

