

SWAMI VIVEKANAND SUBHARTI UNIVERSITY

(Established under U.P. Govt. Act no. 29 of 2008 and approved under section 2(f) of UGC Act 1956

Distinctiveness of University

Title: Improving Environment Friendly Ecosystem by Adopting Newer Innovative Strategies'

We all have faced a very difficult situation in the past one year with the COVID pandemic, wherein Mother Nature has taught us that if we don't give her the love and respect she deserves, then like a strict mother she can teach us in many other ways.

Vision: Swami Vivekanand Subharti University always aims to protect and improve the environment as a valuable asset to provide a clean, healthy and well protected environment to all employees and students. To achieve this, our university has projected a vision to engage the youth in environment protection which would create direct and indirect impact on changing youth behavior and attitude towards sustainable conservation of the existing natural resources. **Priority:** At Swami Vivekanand Subharti University we have always been vigilant towards our duties towards Mother Nature. We have started numerous projects towards a 'Greener India' in alignment with 'National Objectives' and initiated many steps to 'awaken' our youth towards their duty towards the environment.

The 'Subhartian' student is encouraged to make their homes, institutes environment friendly by adopting environmentally friendly practices, recycling of different materials as well as preserving resources such as water and electricity.

The students are encouraged to ditch paper use & adopt digital platform, save water & electricity, buy recyclable bags, recycle books and buy eco-friendly supplies and so on.

Thrust Aspects: The following initiatives have been taken up for improvement of the surrounding environment.

- 1. Paperless Reforms.
- 2. Battery operated Vehicles.
- 3. Solar Power
- 4. Sensor based lights
- **5.** Reclaiming the waste
- 6. Segregate and recycle
- 7. Awareness, Encouragement and Involvement

1) Paperless Reforms:

- a. 'Around 15 billion trees are cut down each year to make paper'. With the aim to make the university on paperless functioning system our in-house IT cell has made several modules of ERP such that most of the functioning of the university happens from, 'computer to computer'.
- b. 'KIOSKs' are installed from which the students can check their profiles and are encouraged to make online entries, online queries, online payments etc. Soon we are planning to launch a 'Subharti App' to further strengthen our initiative.
- c. There are places where paper is needed. Then use of rough or single side used paper is encouraged. Students are encouraged to take prints on both sides to utilize every bit of the paper they are using.



STUDENT USING THE 'KIOSK'

2) Battery Operated Vehicles:

Another contribution towards environment protection is to minimize the pollution created as a result of several activities. In the same league we encourage the use of battery-operated vehicles. The university is using battery operated rickshaws, scooters, and cart for in campus transport. Our students are also encouraged to build and use the same. a. E Cycle: An E-cycle made by our student of Subharti Institute of Engineering is successfully made and is even in production. The e cycle assists the rider's pedal-power, and uses rechargeable batteries. It has the top speed of 25 km/h. E-bikes are acting as a source of exercise and also allows the rider to take short breaks from pedaling. The University intends to make this as a part of cardiac rehabilitation programmes, as a study has shown that it can reduce deaths in people with coronary heart disease by around 27%.



News on the E-Cycle made by our student.

b. **Twin Bicycle:** John F Kennedy very aptly said "Nothing compares to the simple pleasure of riding a bicycle" and what makes it more pleasurable is when you have someone to ride with you. The twin bicycle has been designed by Dr Krishna Murty, an illustrious student of Subharti Medical College and the design has been industrial designed too

(Reg No. 306717). The twin cycle is available for use both for the residents and non residents of the campus within the campus. The twin cycle, campus residents have started enjoying evening rides rather than taking any other form of transportation. The residents can take the cycles from the designated parking places and can leave them at other dedicated parking spaces. The concept has gained popularity just like car pooling; the residents prefer the cycle pooling



Children enjoying a ride on the TWIN BYCYCLE

b. Garbage Van: The garbage van of the University was made by the students of mechanical engineering department to be fully mechanised and electrically driven. The University's all garbage is collected and thrown in the designated place with the help of this van.



3) Solar Power:

The University has been slowly getting solar electricity panels, solar heaters etc installed. Meanwhile our students took inspiration and built;

a. Solar Rickshaw: Another variant of the e-Rickshaw which has been designed by the students of Subharti Technical Campus is solar-powered e Rickshaw that is fitted with solar panels. It is directly solar-powered, driven solely by electric motors, powered by solar panels mounted on the vehicle and capable of operating while the vehicle is in motion. The solar panels provide power directly to the motor without the need for batteries. These solar panel fitted rickshaws are used exclusively for the waste disposal. Currently two solar rickshaws are plying in the campus and the efforts are on to redesign the same as it looks bulkier in its present state.

b. Solar based water purifier: Solar water purifier has been designed by the students of Subharti Technical campus and has been installed near the Vice Chancellor office. The water is purified based on solar radiation treatment and water distillation with additional use of solar heating. The system consists of three main components: the solar

energy collector, the solar distillation system and the solar water disinfection system. The solar energy collector collects solar radiations and converts it into thermal energy for the solar distillation process. Solar water disinfection system takes low turbidity, micro-biologically contaminated water and disinfects it to drinkable water with utilization of solar radiation. The main advantages associated with are Free of charge sun energy and it is reliable and almost maintenance free. However, it has low production capacity so the students are working on increasing the same.



4. Sensor Based Lights:

Our students committed towards adopting the newer means of energy conservation and a firm belief that every unit of energy saved can be utilized in the future. The students of Subharti Institute of Technology and Engineering have been instrumental in installing the electronic motion detector-based sensor lights at 125 different locations in the University campus. Motion detectors are being used in activating street lights as well as indoor lights in walkways, lobbies and staircases. Due to these lighting systems, energy is conserved by only powering the



lights for the duration of a timer, after which the person has presumably left the area.

5. Reclaiming the Waste:

Our multitalented founder who has started a blog of her own called 'busy bee' (https://subharti.org/blog/category/busybee/) has inspired many of our students to do the same. Our students from the Faculty of fine arts, department of interior design, have been making several sculptures and art items from 'scrap'. This not only redefines creativity but also reduces the waste created. Some examples for such are Lamp Shades from waste, Cartoon characters from discarded newspapers; waste carrying man sculpture and many more.



SCULPTURES AND ART PIECES MADE FROM SCRAP

6. Segregate and Recycle:

The University initiates, encourages and ensures the segregation of waste along with it its adequate disposal. Along with it we involve our students to become participants in recycling the green waste into compost.



DUSTBINSFORRESIDENTSFORSEGREGATIONOFWASTE

BIO FERTILIZER <u>PROGRAMME</u> (BIOCOMPOST, <u>VERMICOMPOST</u>)



- a. Biocompost: The University has 3 pits for utilising the green waste and making it into bio compost.
- **b.** Vermi-compost: The University has defined an area for making vermicompost.

In both the projects the students of Faculty of Science, department of agriculture are made to participate to help them learn and also inspire them to do it at homes, spread its awareness.

7. Encouragement, Awareness, and Involvement:

a. All days like 'Environment day' 'Plantation day' are celebrated, our students are encouraged to plant saplings, donate trees to encourage them to realize the importance of nature.



- b. The University gifts planters on all events, and gets students to prevent plucking of flowers, and encourage growing of plants.
- **c.** Students are involved in '*nukkadnatak*', 'poster competition' etc, on such themes to encourage their mindset towards encouraging 'Green India'



Welcome of guests with Saplings

d. Regular Blogs, Facebook campaigns for using environment friendly things, like 'own cloth bags' instead of plastic ones, carry own bottles instead of using plastic bottles, not using single time plastic etc..



Few snapshots of blog

FEW MORE GLIMPSES



Subharti University: A message of environmental protection on World Car Free Day often tweets to promote daily practices such as conservation of water by watering plants with wastewater and the importance of energy-saving habits in individuals. She said that by celebrating Car Free Day in every Wednesday in the university, pollution is prevented by saving fuel, carbon & toxic emissions along with a resplic from noise

Transparent News Bureau

Bureau Meerut It is a car-free day every Wednesday on the campus at Swami University, Meerut but today the University shares the day with the whole world uniting as we all celebrate The World Car Free Day. On the occasion of World Car Free Day, no vehicle Car Free Day. On the occasion of World Car Free Day, no vehicle was used in Subharti University and all the faculty members and students enjoyed walking and cycling on the open roads of the campus. Subharti University has been promoting the health and preservation of the environment since its inception. The campus is laden with beautiful trees and lush green only pleasing to the eye

but help the environment by reducing pollution and increasing the level of oxygen. The shaded walkways within the campus aid walking by providing much-needed respite during the summer season providing much-needed respite during the summer season. The campus also promotes sustainability by rainwater harvesting, solar-powered buildings and street lights, vermicompost unit, and a horticulture nursery. On the occasion of World Car Free Day, Brigadier Dr.VP Singh, Vice-Chancellor of Subharti University, wished everyone a healthy and sustainable future. He said "Car Free Day is already celebrated in Subharti University every Wednesday. The main purpose of a Car Free



Day is to eliminate pollution from petrol-diesel and inducting a habit in every individual for walking and cycling. By not operating any vehicles within the campus we give mother nature a much required day off when she can replenish her health". Dr. Shalya Raj, Chief Executive Officer of Swami

Vivekanand Subharati University said that Subharati University is also an environmental exemplar with its green and sustainable practices along with health promotion. Dr. Shalya is known and admired for her affinity to nature and best practices for environmental sustainability. She

emissions along with a respite from noise pollution. She said that it is our moral responsibility to conserve the environment and

responsibility to conserve the environment and Subharti University is committed to conserving the environment by encouraging sustainable habits and technology. She also said that the core value of Subharti University are Shiksha (education)

Sewa (service) Sanskar (human values) & Rashtriya

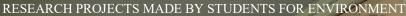
(narian' vantes) tec Rashtriya (nationalism), through which the country can become atmanirbhar (self-empowered) by preparing the younger generation who follow the values of Sanskriti and Indian moral code. To bring meaning and practice these core values, small work is done with great importance every day. values, small work is done with great importance every day, in which all the faculties, officers, and students ensure the lights, fans, and air-conditioners are switched off after work in that area is finished. Apart from this, solar energy is used throughout the university, with solar systems installed on the roof of the buildings located on the campus

FACULTY SETS EXAMPLES FOR STUDENTS BY APAPTING WHAT THEY PREACH





12 Page







सुभारती इंजीनियरिंग के छात्रों ने बनाया ईको फ्रेंडली ई-रिक्शा

सोलर से चलने वाला गार्बेज डिस्पोजल ई-रिक्शा पारंपरिक ई-रिक्शा में बेहतर, बाजार के मॉडलों से 70 प्रतिशत कम लागत में बन सकेगा यह रिक्शा, ग्रीन हाउस गैसेस को घटाने में भी होगा सक्षम



ई-रिक्शा को देखतीं डा. शल्या राज व कुलपति डा. एनके आहूजा।

मेरठ। विश्व पर्यावरण दिवस हर किसी के लिए पृथ्वी की देखभाल और परिवर्तन के प्रतिनिधि बनने की जिम्मेदारी का एहसास करने का अवसर प्रदान करता है । स्वामी विवेकानन्द सुभारती विश्वविद्यालय

चीफ रिपोर्टर

कुरपाते डा. एनक आहूना। से चलने वाले गाउँज हिस्पोजल ई-रिक्शा का इंजाद किया है जो पारंपरिक ई-रिक्शा की तुल्ता में हर मायने में पर्यावरण को संजो के रखने में कारार सिद्ध होगा। ये ई-विश्वा न केवल माकिंट में मिलने वाले बाकि मॉडलॉं में से 70 प्रतिशा कम लागत में बन सकेगा बल्कि ग्रीन हाउस गैंसेस को घटाने मं भी उतना ही सखम होगा। विश्व पर्यावरण दिवस 6 जुन 2019 को महाविद्यालय में विश्व पर्यावरण दिवस की मुप्रधाम से मानाया गया जिसमे मेकेनिकल इंजीनियरिंग के विद्यार्थी और शिक्षकों द्वारा इंजाद किए हुए इस ई- रिक्शा का एक प्रदर्शन भी कराया गया। जिसका युभारम्भ कुलपति डा. एन के राष्ट्रीयत ाता है टिवर * गरत एंड पर्यावरण हीम को सोलर

अहूजा के उपस्थिति में मुख्य कार्यकारी अधिकारी डा. शल्या राज

कार्यकारो अधिकारी डा. शल्या राज के हायों से हुआ। इस कार्यक्रम में दिश्वविद्यालय के नारीम के छात्र- छात्राओं ने एक नाटय प्रस्तुत किया। इसके अलावा डा. विजय भटानागर, डा. पवन प्रयार, डा. नीरज करण सिंह ने भी प्रयांवरण दिवस के ऊपर अपने विचार प्रकट किये। सभी गणमान्य प्रयांवरण दिवस के ऊपर अपने विचार प्रकट किये। सभी गणमान्य प्रवीरियों ने माहविश्वालय के प्रधानावार्य डा. मनोज कपिल, डा. रविश कुमार औवारस्त तथा बार्यक्रम को सफल बनाने के लिए डा. मुकेन रुहेला एवं इति. गरिमा जैन का योगदान प्रमुख रहा।



Presentation of students on research ideas for Environment

