

JAI NARAIN VYAS UNIVERSITY JODHPUR

ENVIRONMENT & ENERGY USE POLICY


PREAMBLE

The continuous exploitation of natural resources for economic growth by human beings is leading to degradation of environment, having an impact on earth's climate, the whole ecosystem and human health. Therefore, The Ministry of Environment and Forests, Government of India has given National Environment Policy in 2006 (<https://moef.gov.in/en/>), which is based on several existing policies (e.g. National Forest Policy 1988; National Conservation Strategy and Policy Statement on Environment and Development 1992; Policy Statement on Abatement of Pollution 1992; National Agriculture Policy 2000; National Population Policy 2000; National Water Policy 2002). The National Environment Policy states about our national commitment to a clean environment, mandated in the Constitution in Articles 48 A and 51 A (g), strengthened by judicial interpretation of Article 21, and recognizes the responsibility of every citizen to maintain and enhance quality of the environment.

Keeping in view the importance of protecting and conserving the environment, our University has developed a policy towards maintaining a healthy environment in all of its campuses, integrating energy use and conservation in its priority area. This policy addresses the key environmental challenges, conservation of critical environmental resources and integration of environmental concerns into its curricula, plans, and projects, ensuring judicious use of environmental resources towards sustainable development.

OBJECTIVES

- Protection and conservation of environmental resources and ecosystem in the University.
- To ensure efficient use of environmental resources, including energy and water, by reducing their consumption to minimize adverse environmental impacts.
- Reduction in contribution to emission of fossil fuels.
- To develop and strictly follow the green campus initiatives in the University.
- Sustainable procurement of goods and services to reduce adverse environmental impact.
- Integration of environmental concerns into its development plans, policies and projects.
- Integration of environmental issues and knowledge about its conservation and regulations in its educational programmes and syllabi.
- Promoting the faculty members to execute research projects on the key environmental issues, such as climate change and developing remedial strategies to cope-up with these challenges.
- Reduction of the amount of waste generation, and development of various waste management practices in the campus.


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- Raising awareness among its academic and research community and various stakeholders for adoption of environmental good practices.
- Application of the principles of good governance to regulate the use of environmental resources.

PRIORITY AREA/ACTION PLAN

1. Energy Conservation

The University shall reduce its CO₂ footprint by energy conservation and reducing its consumption in every possible way. It shall strive to maximize energy efficiency by using LED roadlights and LED bulbs/tubelights in classrooms/laboratories/seminar halls/offices etc. The newly constructed building will be designed in an energy-efficient way, with sufficient solar lights and proper cross-ventilation, minimizing the need of external light sources and air-conditioning. The lab equipments and other electric goods must be energy-efficient having high star-rating. The University will develop a system to continuously monitor the energy sources and its consumption, with an effort to cause least impact on the environment. It is also planning to install solar panels for renewable energy in its campuses in the near future.

2. Water Conservations

The University shall strive to develop good practices for efficient management and conservation of water, through reducing its usage, promoting use of drip irrigation/sprinklers in its gardens and farms, rain water harvesting and artificial water recharge, construction of overhead/underground tanks for proper leak-proof storage of water, enhancement of groundwater recharge through revival of traditional practices, regular monitoring and maintenance of any type of leakage in closed pipeline system, reuse of waste water from water purification systems etc.

3. Waste management

The University shall follow the practice of 3R for waste management: *Reduce, Reuse, and Recycle*. The disposal of all kinds of solid, liquid and e- waste shall be in an appropriate manner, so that it will have minimum harmful effect on the environment. For solid waste, land-fill approach shall be used by collecting the waste (such as debris, fallen leaves, sweepings in the pits), covered by soil. It can be used as compost in gardens, and a MOU shall be signed with Municipal Corporation for collection of waste material from various campuses, University hostels and staff residences at regular interval. Closed pipe systems shall be developed for Liquid waste, and utmost care shall be taken for hazardous chemicals, which will be collected and disposed off separately. Any waste material containing mutagenic agents (such as agarose gels having ethidium

bromide) or radioactivity, or contaminated/microbial cultures, and any genetically engineered microbe, plant, or animal material having recombinant DNA (foreign gene) will be disposed of as per the existing guidelines of the relevant government body. The e-waste management will be done by collection of such kind of material (e.g. obsolete computers, CPUs, UPS, batteries etc.) and their auction at regular intervals to the authorized vendors, at centralized level.

4. Eco-friendly green campus

The University shall improve the green cover of its campuses by regular plantation of local vegetation and proper maintenance practices, e.g. stopping the grazing by animals, use of integrated pest management techniques, ensuring the regular water supply for watering the plants etc. All departments/faculties shall organize such kind of plantation drives regularly, and take oath for proper care of the planted species. Beside this, the University shall follow the concept of “green building” (low maintenance and high energy efficient) for its new constructions, with least negative impact on the environment. It shall develop various mechanisms to keep the campus plastic-free and pollution-free.

5. Environment education and awareness

The University shall promote the environmental awareness by integrating the principles, values, and practices of sustainable development, various environmental issues and conservation in its academic curricula. It shall encourage its teaching and non-teaching staff, and students for hands on training in these matters, and sponsor lectures/ workshops to inculcate environmental awareness. The University shall also strive for environment sensitization in the local and regional community and general public, through various campaigns, rallies and street plays, seminars/conferences, workshops etc. It shall promote National and International collaborations and sponsor for joint research on environmental issues. It shall disseminate its environmental initiatives and activities through publications and media.

GREEN CAMPUS INITIATIVES

A huge campus area in the University is in its virgin form, serving as a natural habitat for various species of plants and animals. The University is committed towards a “no harm” approach to the environment, and strives to fulfil its goals for protection and conservation of its rich biodiversity and local flora and fauna, for maintaining a healthy environment for its staff and students. The University has taken various green campus initiatives, as mentioned below:

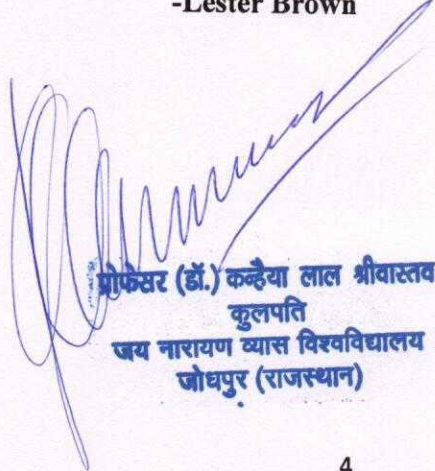
- Paperless administration, e-governance in all major area such as admission and examinations, digital transaction.

- Use of ICT-enabled tools and techniques for classroom teaching, and reduction in usage of paper for teaching and research purpose.
- Plastic-free campus/banning the use of single use plastic/plastic bags or items in any form.
- Segregation of biodegradable and non-biodegradable waste in different-coloured dustbins, and disposal of biodegradable waste in pits for compost.
- Reuse of waste water from distillation units for gardening purpose.
- Vehicle-free day, use of bicycle, car-pooling, use of public transport (observe every last Saturday of the month as “no vehicle day”, to reduce pollution caused by the increasing number of vehicles).
- Energy conservation initiatives: use of LED lighting in the campus.
- Procurement of highly energy-efficient equipments for laboratories.
- Green and clean campus initiatives, Swachh Bharat Abhiyan, plantation drives involving NCC/NSS volunteers/Scout and Guides rover rangers and various departments/faculties of the University.
- Awareness and sensitization of local community and University staff/students: posters/writings, essay/debate competitions, rallies, nukkad natak, involving NCC/NSS volunteers/Scout and Guides rover rangers
- Planning to install solar panels for electricity in its all campuses in the near future.
- Planning for a regular energy and environment audit in future.
- Planning for provision of e-rickshaws for transportation inside the campus in near future.

The University policy on environment and energy use will be reviewed continuously/each year

***“WE HAVE NOT INHERITED THIS EARTH FROM OUR FOREFATHERS,
WE HAVE BORROWED IT FROM OUR CHILDREN...”***

-Lester Brown


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