

**INSTITUTE OF MANAGEMENT STUDIES GHAZIABAD  
(University Courses Campus)**

**IMS  
GREENS POLICY**



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### **Introduction**

India currently faces an imperative environmental crisis. The Green Campus Initiative is one of the many ways in which India's environmental challenges are being addressed. IMS University Courses Campus has taken the responsibility of trying new methods and to realize the potential and possibility of building green campus which can become major contributors to develop a sustainable future for us all. Environmental sustainability is neither technologically nor economically prohibitive. The only thing required is the will and commitment to work in all areas of the environment- land, air, water, energy and waste. The campus has achieved spectacular results in not only reducing pollution but also in reducing costs and improving the sense of well-being all of us.

IMS Ghaziabad University Campus has committed itself to reducing its resource footprint on its training campus. A Green Committee has been set up at the Institute, which monitors progress and expedite decisions related to green campus sustainability of the campus. This includes preparation of a baseline scenario, inventorisation and performance benchmarking of the campus.

Some of the notable initiatives taken up by the institute include segregation and onsite treatment of the rainwater harvesting, investment in energy-efficient appliances, on-site treatment of wastewater generated on the campus, etc.

### **The Passive architecture**

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The form of the campus follows a courtyard typology with water bodies and plants in the green area. The space avoids direct sunlight and remains cooler than unshaded open spaces. The walls facing the courtyard are shaded by a continuous corridor. This is combined with an optimized window-wall ratio in the campus as per the standards set in Energy Conservation Building Code (ECBC) 2017. The campus has incorporated passive building design features by using shaded windows and pergolas as shading devices. The design of the windows and doors with grills has been done in a way to facilitate natural ventilation. As an experimental feature, an earth-air tunnel is used in the academic blocks.

The majority of the building blocks in the campus are north-south oriented. This is the most appropriate orientation for a building according to the climate, as the northern and southern façades face less direct sunlight compared to the east-west façade. The fenestrations have been provided with appropriate shading features with recessed windows and sun-shading devices that cut down the direct solar gain, while allowing natural ventilation and daylight.

### **Teachers for climate actions**

The institute teachers always takes initiatives towards global climate crisis. Time to time workshop and awareness program has also been promoted in the institute on sustainable development. In addition, the teacher's discuss about which pedagogies they believe in empowering students for action, they agreed on active and student-centred approaches. These take a variety of forms, including experiential based, industrial visits, hands-on experience and embodied pedagogies.

### **Paper Less Productivity**

The institute believe on paper reduction and process automation are not only economically and ecological benefit financially but the right development towards the sustainable environment. Reducing

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paper consumption is a simple way and a huge impact on the environment, and especially CO<sub>2</sub> emissions as well as has a direct impact on an institute carbon footprint.

### **Rain Water Harvesting**

The campus can harvest a total of 21.5 million litres of rainwater annually if it makes use of the available rooftop area and open spaces on its premises. The available rooftop area in the campus contributes to more than 22 per cent of the total potential, while the paved areas in the form of roads and pavements contribute to over 45 per cent of the potential. Open and unpaved areas covered with grass occupy the largest portion of the land in the Campus, but due the permeable nature of the soil, only 10 per cent of it becomes runoff and can be collected as harvested water. The campus has installed six rainwater harvesting pits. These are recharge pits-cum-twin bore wells, fitted with de-silting chambers.

### **Shared mobility**

To help its staff & students to commute, the Campus runs regular bus services between the campus and three nearby areas like Bulandshahr, Modinagar, Hapur and Delhi Border. Students and the staff are encouraged to use the shared transportation service in order to cut down on the use of private vehicles. A bicycle sharing programme on the campus encourages students and staff to use bicycles instead of motorized vehicles.

### **Wastewater treatment**

The Institute has active set up of a sewage treatment plant (STP) with a capacity for treating 1.5 lakh litres of wastewater. The sludge, which is the residue of the treatment process, is being used as a fertilizer in horticultural practices in Institute's garden area. An external company has been entrusted with the responsibility of ensuring the upkeep and efficient running of the system.

### **Waste Recycling System**

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The institute has installed Sanitary Napkins Disposal Machine where as per the process, the used napkins are continuously putted in the machine and door is closed. After some time, machine heater cut off automatically when reaches the set point but burning process continues to take few minutes as it's chimney exhausts of fumes and finally it is converted into least possible ash.

### **Ban for plastic**

The institute has committed to eliminating all non-essential single-use plastic with viable alternatives. Unlike other plastic bans, Institute's initiative goes beyond existing plastic reduction targets focused on foodware and plastic bags, and addresses the spectrum of products and packaging used in campus academics, research, administration, and events. The time has come for a systematic campaign to reduce the usage of plastic, especially the single use plastic. The institute has decided to take plastic ban to address the environmental hazards being and bring attitudinal changes that shun use of plastics. The institute have the unique spread and influence to educate the students and households on the need for avoiding usage of plastics, the institute has resolved to implement ban of plastics in the following fashion.

- Ban on single-use plastic packing materials in canteen & stores.
- Identification & implementation of replacements for alternative food and beverages that are sold in canteen which comes in plastic packaging
- Ban on Single-use plastic bottles of 1 litre or less in volume for in-house meetings and events
- Reduction in usage of single-use plastic banners
- Segregation of Non-Biodegradable plastics by House Keeping staff & safe disposal of the same
- Ban on use of plastic materials used for decorations at the events

### **Pedestrian friendly walkways**

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Pedestrian friendly walkways have been made permeable as well to allow percolation and to absorb less heat. Walking along these pedestrian friendly walkways is one of our activities to energy conservation, decrease global warming gas and health promotion for all in our campus. Moreover, Green covered walkway is one type of cover walkway which can make it green by using trees or flower trees. This practice will help to reduce carbon emission and make our students and staff more comfortable during walking along the walkway.

### **Education and awareness**

The campus authorities, in association with the Institute's green committee have been regularly hosting campaigns and workshops with a vision to generate environmental sensitivity in not only the students and staff but also their families.

The Institute has been organizing plantation drives in which more than 1,000 saplings have been distributed. The campus has also adopted a trend of gifting potted plants to its special guests and visitors with a vision to encourage tree plantation.

An IMS Greens Cell has been introduced: it is given to students who find innovative solutions to every-day problems. The initiative is aimed to encourage student to opt research on environmental subjects. Some of the subjects which have featured as IMS Greens include alternatives to sanitary napkins, hazards of aluminium leeching, ecological awareness in schools, green fashion, hazards of packaged food and benefits of organic food, etc.

The Institute workshops Program has been one such project for researching on solid waste management on campus. Under it, students collected information related to solid waste management and conducted awareness programmes to sensitise their compatriots on waste

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management, with the focus on single-use plastics. The use of colour coded bins, rainwater harvesting, solar panels and compost pits were assessed in this project. After the research, the students hosted a social media awareness campaign as well.

The IMS Greens Cell regularly conducts workshops in which students are encouraged to take part for environmental-friendly products and models. This has had far-reaching results as it encourages them to consume less packaging even beyond the campus.

### **Harnessing Solar Energy**

The campus has installed solar Photovoltaic (PV) panels that convert sunlight directly into electricity used to feed solar-powered streetlights inside the campus. Solar panel technology has made it possible for campus to significantly decrease lighting installation costs and eliminate the electricity bills associated with outdoor lighting. LED technology has become extremely efficient and has a long product life when compared with traditional types of lighting such as sodium vapor and fluorescent lighting, therefore significantly decreasing operations and maintenance costs, while continuing to deliver a bright, crisp white light that does not fade in intensity. Because Solar Energy an ideal energy source for powering cost-conscious and eco-friendly facilities, Institute has installed solar panels in hostels too that cuts energy costs, reduces current greenhouse gas emissions and provides a sustainability design.

### **Energy efficiency**

The campus has taken important initiatives in minimizing the use of conventional energy sources by switching on to energy efficient lighting fixtures. Air conditioning has been restricted to very few rooms. Tube lights have been replaced with LED lighting fixtures; older fans replaced with more energy-efficient fans. This initiative is helping to improve our college campuses through efficiency and student engagement.

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### **OBJECTIVES**

- To organize events like seminars, conference and exhibitions related to environment
- To aware, encourage and educate the people about environmental issues through literature, posters, banners and publications
- To publish and print, environment related books, magazines, news, bulletin and other publication.
- To organize academic programs related to environment like certificate course, diploma course full time or part time.
- To provide lecture by the expert team of environmentalists, socialist, journalists and professionals
- To organize program for school, college with the purpose of plantation the trees.
- Activities mainly address to protection of environment
- To conduct nature awareness campaigns and organize motivating programs
- To create environmental awareness and promote eco-friendly products and services through environmental activities like green events, exhibitions, conference, slide shows, seminar etc.

### ***IMS GREENS CELL MEMBERS***

IMS Greens is created with a group of enthusiastic students, who are passionate to work willingly for various environmental issues. In this concern each year faculty coordinators seeks the name of new entrants, where as the previous and the final year students play their role as a mentors and the advisors for the new coordinators. All the students enthusiastically participate in the various activities held throughout the year.

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***KRAS OF STUDENT COORDINATORS***

- To organize the events at Institute level.
- Communicate the external events information.
- Circulation of news & feeds through digital platform.
- To conduct outreach activities.
- To provide the logistic support for the activities.

<i>Faculty Coordinators</i>	<i>Student Coordinators</i>
<i>Dr. Tripti Singh</i> <i>Associate Professor</i> <i>Department of Biosciences</i>	<i>Sakshi Garg (President)</i> <i>Bhumika Visnoi (Vice President)</i> <i>Vilohit Khosa (Secretary)</i>



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