

## **Environmental and Sustainability Guidelines**

**University of Colombo** 

2021

Center for Environmental Initiatives (CEI)



Being one of the most discussed topics in the century, Climate change is growing as an imminent threat potent enough to wipe life out from the earth in the future. Besides, the natural resources fueling life are declining in quantity and degrading in quality. Amid all these growing environmental issues, there is a responsibility on everyone's shoulder to prevent those issues from intensifying. As a deep-rooted educational institution of the country, the University of Colombo (UoC) has already entered the path of becoming a sustainable and environmentally friendly institute, inspiring its new generations of graduates and staff to become responsible individuals towards the environment. Center for Environmental Initiatives (CEI) was established in 2017 to achieve environmental protection and sustainable green development within the University premises. With the positive progress so far, the CEI expects to make every stakeholder at any level in the University aware of the exact responsibility they hold in achieving green goals. This document presents a series of guidelines recommended by the CEI for the UoC community to follow within the university premises. For explicit and more accurate understanding, this series of instructions is divided into three groups as follows:

## Guidelines,

- applicable for adopting sustainable practices within existing buildings and facilities administration
   and relevant stakeholders
- to consider when planning to commence new buildings and renovations administration and relevant stakeholders
- for the general practice staff and students

	Existing buildings and facilities	New buildings, renovations	General Practice	
E	Conduct an energy audit and follow	Design to get the maximum benefit	Turn lights and fans off in empty	
N	up action	of the natural light and natural	rooms disregarding the time of the	
E		ventilation	day	
R	Energy metering and monitoring to	Select proper interior colours to	Unplug electronics when you are	
G Y	understand and identify large scale	reduce the light requirement	out of the office	
1	energy consumers			
	Use energy-efficient equipment: air-	Use energy-efficient roofing	Do not leave mobile phones, tabs	
	conditioners, lights, computers,	materials, design vertical-rooftop	and laptops for charging	
	photocopy, fax, printers, laboratory	gardening	unnecessarily. Unplug them once	
	equipment, etc. (check energy star		they are fully charged.	
	rating or certificates)			
	Manage water use and enhance	Consider proper insulation of walls,	Shut down computers and other	
	conservation measures (e.g. reuse	floors, and ceilings to ensure that	equipment, or place them into	
	treated water, sensor taps)	A/C energy is not wasted	sleep mode when they are not	
			being used	
	Monitor equipment periodically and	Use energy efficient bulbs ( CFLs	Take the stairs instead of the	
	upgrade, as needed (e.g. Compressed	and LEDs) and locate them	elevator. (an elevator consumes	
	Air Systems for Leaks)	properly	roughly 2.5 Wh per person to	
			travel one floor)	

	Draught-proof any gaps/openings	Plan to make thermal comfort	Maintain the A/C temperature at ~
	between the interior and the exterior	solely by fresh airflow	25 °C
	of the building (doors, windows, and		
	vents)		
	Research the possibility of utilizing	Invest in energy-efficient	Do not let the door/windows open
	renewable energy to completely or	appliances (e.g. select computers	when the A/C is on
	partially fulfill the energy	on energy star rating) with plans for	
	requirement of the faculty/institute.	regular monitoring and	
	(e.g. solar panels)	maintenance	
	Use multifunctional devices instead	Use renewable energy sources to	Make sure the lights in corridors
	of many devices (e.g., multifunction	completely or partially fulfill the	and gardens are switched off in the
	printers instead of separate copier,	energy requirement of the building	morning.
	printer, and fax machine) and reduce	(e.g. solar panels)	
	the requirement of more devices by		
	increasing the number of users per		
	device		
w	Conduct a water audit and follow up	Treat wastewater and use treated	Turn off the tap while lathering
A	action	water for gardening and flushing	and scrubbing hands, then turn it
T	action	toilets	back on to rinse
E		tollets	back on to thise
R	Use water-efficient appliances.	Harvest rainwater for gardening,	Report leaks to the relevant
	Install self-closing taps in common	flushing toilets and cooling systems	officers
	places		
	Check faucets, pumps, toilets, hoses	Invest in water-efficient appliances	Consider the amount of soap you
	and other appliances for leaks and fix	(e.g. automated taps) with plans for	use per one wash to reduce water
	them promptly	regular monitoring and	waste
		maintenance	
	Treat wastewater and use treated	Install self-closing taps in common	Assign people to inspect broken
	water for gardening and flushing	places	taps to be mended
	toilets		
	Harvest rainwater for gardening,	Fix elevators to open at selected	
	flushing toilets and cooling systems	floors to minimize frequent	
		stoppage	
	Use eco-friendly sanitizers and soaps	11 0	
	to reduce water consumption		
	Minimize water usage for cleaning		
	purposes		
	Water the landscapes in the morning		
	and prevent doing it when it is windy		
	and prevent doing it when it is willdy		

W	Avoid waste generation				
A	Ban single-use polythene lunch	Refuse unnecessary product	Bring a reusable lunchbox and a		
S	sheets, bags and plastic bottles on	packaging, request reusable or	water bottle/cup from home		
Т	university premises. Encourage	returnable containers or ask	-		
E	using bio-degradable material for	vendors to take packaging back			
	food wrapping				
	Do not buy and distribute bottled	Order the right amount of materials	Dine in or bring reusable		
	water, food in polythene/plastic		containers when buying food and		
	wraps , plastic straws and utensils		drinks from university canteens		
	during campus functions				
	Do not allow plastic/polythene	Store materials correctly to prevent	Do not buy bottled water, food in		
	decorations during campus functions	damages	polythene/plastic wraps, plastic		
			straws and utensils		
	Refuse unnecessary product	Make hydration stations to refill			
	packaging, request reusable or	water bottles/cups			
	returnable containers or ask vendors				
	to take packaging back				
	Make hydration stations to refill				
	water bottles/cups				
	Reduce waste				
	Minimize paper waste	Minimize toxic/hazardous waste	Section 1.		
			Minimize paper waste		
	Purchase light weight paper	Use viable sustainable	Do double sided printing		
	<ul><li>Purchase light weight paper</li><li>Encourage double sided</li></ul>	Use viable sustainable construction materials	<ul><li>Do double sided printing</li><li>Use small fonts, single</li></ul>		
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• Use digital boards in		Do not print drafts of
meeting rooms where		large documents like
possible to display minutes		theses, handbooks and
and memos without		academic handouts.
providing hard copies		Finalize them before
		printing.
Stock real crockery and cutlery in the	Paint safety signs, directions and	Buy food wisely to minimize
office to minimize using disposable	location names on walls instead of	leftovers
items (The biodegradable ones can	placing sign boards or use sign	
be considered for occasional use)	boards made up of recyclable or	
	environment friendly materials	
Purchase durable	Purchase durable	Use university libraries and
appliances/equipment, use them	appliances/equipment, use them	computer rooms more to avoid
according to manufacturer's	according to manufacturer's	purchasing books, journals and
directions and have plans for regular	directions and have plans for	newspapers
monitoring and maintenance	regular monitoring and	
	maintenance	
Use fast draft mode and	Plan accurately to minimize	Use cloth napkins and reusable
monochromatic printing (black and	construction mistakes	sanitary items
white printing) to save ink		
Minimize toxic/hazardous chemicals	Dispose of contaminated waste	Use appliances/equipment
usage in laboratories. Promote group	correctly	according to manufacturer's
practicals or demonstrative sessions		directions and do regular
when toxic/hazardous chemicals are		monitoring and maintenance
used		
Do bulk purchasing to reduce		
individual packaging		
	Reuse	
Start an Upcycle station for office	Donate extra	Reuse paper waste
supplies such as used paper, paper	material/equipment/furniture to	Use single side printed
clips, rubber bands and brass	needy people/institutes	papers for drafts
fasteners, old office equipment and		Reuse cardboard boxes to
furniture. Make it a protocol to check		store items
the Upcycle Station before re-		Use two-way or send-
ordering any new item		and-return envelopes for
		internal mail
		Reuse old file folders
		with new labels

		Make your own scratch pad
Check possibility of upgrading	Use construction waste like	Check for reusable items before
equipment to expand the lifespan	concrete, gravel, dry wall from	re-ordering any new office
before replacing them	previous projects for back filling	requirement
Reclaim reusable parts of equipment		
Donate old computers and electronic		
devices to schools		
Recharge empty printer cartridges		
instead of buying new ones		
	Recycle	
Segregate and store waste in properly	Segregate waste, store them and	Segregate waste and dispose of
labelled bins, i.e., metal, plastic,	send them for recycling	them in the correct bin
paper and glass		
Hand over paper waste, used PET	Name one or few employees to	Do not crumple paper waste before
bottles and glass bottles to the	supervise post	disposing. Only unwrinkled and
university Waste Storage Center	construction/renovation and long-	clean papers are accepted for
(WSC). If you are located far away	term waste management and related	recycling
from the WSC, initiate a plan with	record keeping	recycling
the help of CEI to work with local	record keeping	
recyclers		
<u> </u>	He malaimed manufactured	Class DET and along hottles hafens
Store E-waste separately until	Use reclaimed, recycled and	Clean PET and glass bottles before
recycling	sustainable materials and products	disposing
Name one or few employees to	Purchase recycled products (e.g.	
supervise waste management and	printing sheets, toilet papers, tissue	
related record keeping	papers) to support recycling	
Purchase recycled products (e.g.	Purchase recyclable material and	
printing sheets, paper napkins) to	products to support recycling	
support recycling		
Purchase recyclable material and		
products to support recycling		
	Waste Treatment	
Compost organic (food, garden	Install composting facilities	Dispose of hazardous waste
waste) waste		properly
Develop proper hazardous waste	Develop proper hazardous waste	Volunteer for environmental
management facilities in institutes	management facilities in institutes	campaigns such as 'shramadana'
where it is applicable	where it is applicable	
where it is applicable	where it is applicable	

В	Conduct floral and faunal surveys	Maintain open spaces among	Volunteer and contribute to tree
I	and develop an inventory	buildings	surveys, conservation and tree
o	·		planting programmes
D	Introduce new landscaping	Maintain forest vegetation and	
I	practices which attract biodiversity	minimize cutting trees for	
V	that include butterflies, bees, birds	construction purposes	
E	and repel pests such as mosquitos	Fur Fare	
R S	Conserve remaining trees and	Design vertical and rooftop	
I	maintain the existing biodiversity	gardening	
T	Plant a variety of trees with genetic	Plant a variety of trees with genetic	
Y	diversity to improve biodiversity	diversity to improve biodiversity and	
	and to offset carbon to cover	to offset carbon to cover	
	unproductive open areas	unproductive open areas	
/ID	*	unproductive open areas	TT 11'
T R	Buy zero emission or fuel-efficient		Use public transportation
A	vehicles in the future		TT
N	Promote public transportation		Use active travelling if possible
S			
P	Arrange passenger-friendly shuttle		
o	services with the collaboration of		
R	СТВ		
T			
A			
T			
I			
O			
N	Cardinat amount and	Discuss with and land and and and	Double in the improvement
	Conduct awareness sessions on	Discuss with vendors/contractors	Participate in awareness programs
A	environmental management at	about the university concern	to get the knowledge on
w	faculty/institute orientation	regarding sustainable	university`s environmental policy,
A	programs with the collaboration of	construction/renovation	commitments and act accordingly
R	CEI	Discounting of the second	T. C. C.
E	Name a panel/ group/ committee of	Discuss and integrate environmental	Initiate a division for environment
N	staff to work on and keep records on	protection at planning stage to	conservation in your student
E	the waste management and other	minimize generating contaminated	club/society and raise awareness
S	environmental concerns	water, land disturbance, dust	among students and organize
S		pollution, etc.	relevant activities
	Make awareness sign boards where		
	necessary (e.g. Small notice near		
	waste bins to remind the need for		
	proper segregation)		

Arrange regular meetings with	
cleaning and canteen staff to make	
them aware of the university green	
policies and monitor their activities	