جامعة الخليج الطبية

GULF MEDICAL UNIVERSITY

ACADEMIC HEALTH CENTER

Sustainable Development Goals

12 RESPONSIBLE CONSUMPTION AND PRODUCTION

SDG 12: RESPONSIBLE CONSUMPTION AND PRODUCTION

Contents

SDG 12 - Responsible Consumption and Production

GMU is committed to continuously improve its contribution to SDG 12 - Responsible Consumption and Production. It is clearly reflected in its vision, mission, and mandate (Link).

GMU has been progressing its endeavours for achieving SDG 12 which include:

- Social Responsiveness and Social Accountability are clearly reflected in our strategic plan.
- Our commitment to creating awareness regards sustainability among our students and citizens of the future communities through the introduction of courses on sustainability.
- Our commitment and initiatives for waste management and energy conservation through the use of environmental-friendly methods and practices.
- Our commitment to safe and efficient practices in transportation
- Our commitment to safe and efficient practices in our laboratories
- Our commitment to safe and efficient practices in our Food Management
- Our commitment to sustainable practices in our Procurement operations
- Our commitment to sustainable practices in our construction operations

Environmental Sustainability at GMU

With over 300 staff, 2000 plus students and campus building and networking hospitals and facilities, the University's activities have a significant environmental impact. The Maintenance and Facilities team is responsible for managing the environmental initiatives to help us reduce any negative impact by strict monitoring of utility consumption, optimal resource utilization to ensure longer useful life of the assets and high resource efficiency. The University is committed to environmental sustainability, which is embedded in the goals, values and strategic objectives of GMU. To support this, the university maintains a team of facility maintenance professionals with a provision in the University's annual budget.

Social Responsiveness and Accountability highlighted in our "Vision & Mission"

GMU reflects its commitment to sustainability through its Vision "To be a leading international Academic Healthcare Institution through the integration of quality health professions education, research, healthcare and social accountability for sustainable community development" and Mission "To pursue excellence through integration of health professions education, translational research, quality health care, innovation and social accountability enhanced by national, international partnerships and community engagement"

Social Responsiveness and Accountability Highlighted in Our Mandate

- Provide authentic educational opportunities for all categories of health professional students, preparing them to successfully pursue postgraduate training and continuous professional development.
- Develop leaders in healthcare services who can respond to the fast-growing global healthcare needs of the country and region.
- Advance scientific knowledge through research and discovery in the fields of biomedical sciences, population health, healthcare systems, and Medical Education.
- Improve primary to tertiary health care in UAE and GCC region through its 'Academic Healthcare System, Hospitals, Clinics and Centers of Excellence.
- Emphasize GMU's social responsiveness and community engagement by providing affordable quality health care for different sectors of the community and promoting a healthy lifestyle.

Sustainable Growth is one of the Drivers of our Strategic Plan 2017-2022

- Provide a hybrid of sustainable 'Incremental or breakthrough improvements to the current trajectory of programs and disruptive innovation technology (to produce simpler, affordable, accessible online learning) allowing expansion beyond geographical constraints
- Social Accountability and community outreach.
- Strategic Partnerships (national, regional & international) for sustainable development.

Our Policies around Sustainability

Policies & Plans Across Sustainability	Links to documents
Utility System Management Policy	Link
Safety Management Plan	Link
Risk Management Plan	Link
Hazardous Material and Waste management policy	Link
Facility Readiness and operational plan for CoVID	Link
Emergency Management Process	Link
Fire Safety policy	Link
Security Management System	Link
Management of Contractors Safety	Link

Sustainability in Programs and Courses

GMU offers courses like Master in Public Health. Master of Public Health has been designed to meet the ever-increasing demand for healthcare professionals to plan and implement innovative Public Health Schemes and Programs at regional, national and international levels. The objective of the course is to strengthen the Public Health system, and train and develop competent public health educators, researchers, practitioners, administrators, managers, and policymakers.

Our students are gaining awareness regards sustainability through several courses introduced as part of their curriculum. The courses are spread across different healthcare disciplines offered at Gulf Medical University. Following courses cover environmental sustainability concepts

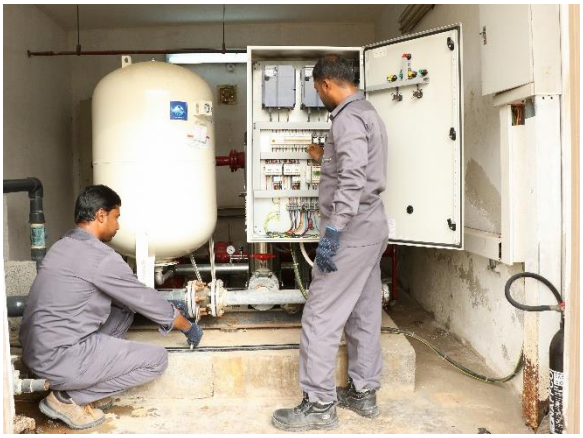
- EIS 101: Entrepreneurship, Innovations and Sustainability
- PML 103: Principles of Management, Leadership & Sustainability
- QEH 306: Quality and Sustainability for Healthcare Organizations
- STM 404: Strategic Management, Social Responsibility, Ethics and Governance
- HME 613: Strategic Management, Social Responsibility, Ethics and Governance
- Community Health Nursing [NS-CHN 401]
- IS - RPR 301, Radiobiology and Radiation Protection
- LS - LBS 201: Laboratory Biosafety
- BSE 101: Behaviour sciences & Ethics

Waste Management & Energy Conservation

GMU is committed to environmentally friendly waste management through a proper collection of waste at its point of generation and disposal of waste as per Municipality norms. We encourage reuse and reduction of waste generation to the maximum extent. We ensure optimal utilization of resources such as classrooms, lecture halls, labs, etc. through a well-designed resource tracking system. GMU sustainability Model (People Planet & Profit - PPP) is consistent with the mission and vision of the university to ensure that the organization recognizes and delivers effectively its responsibilities towards society and the environment while focusing on its objectives.

Planet-related objectives are achieved through compliance with environment-friendly waste management, adopting paperless practices and systems and effectively monitoring utility consumption.

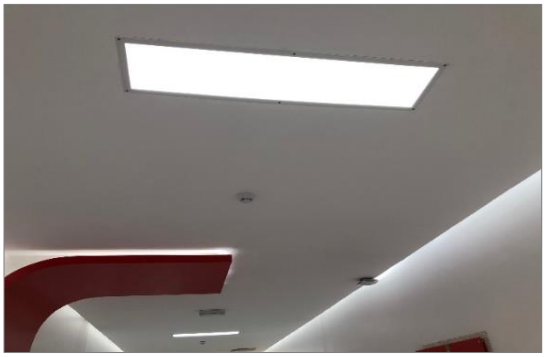
Periodic inspection is in place to ensure optimal consumption of water and electricity, periodic checking and analysis of generator smoke and water quality by the maintenance team to ensure an overall safe environment. We have a dedicated biomedical engineer to ensure all lab equipment is purchased, operated and maintained as per the international norms of sustainability.

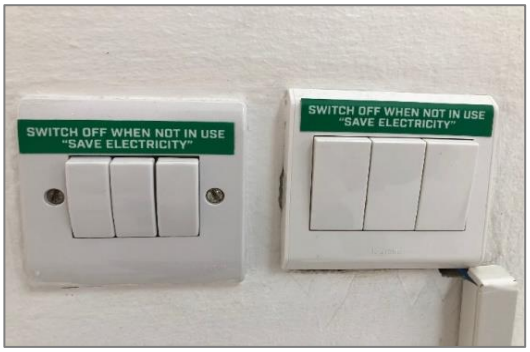


We use timers on the lab equipment that don't need to be left overnight, or during specific periods throughout the day. The benefits of this are a reduction in energy consumption, cost, environmental impact, and often an increase in the useful life of the equipment. Fume hoods use a tremendous amount of energy hence are open only when being actively used.

Good practices at GMU and its Academic Health System for responsible consumption of electricity

- LED lights are installed through the hospital and university to reduce energy consumption.
- Security team maintaining a schedule to ensure AC is switched off as soon as people leave the room/halls.
- Auto shutting down of all the PCs.
- “Switch off when not in use” signage was placed on the all-switch boards.
- We are in the process of installing Corridor lighting controlled with motion lights.





Good practices at GMU and its Academic Health System for responsible consumption of water

- All water taps are installed with reducing pressure filter to reduce the water pressure.
- Periodic checking of leakages and fixing leaks immediately.
- Careful consumption of water during gardening and cleaning purposes.
- We are in the process of installing automatic sensor-type water tape.

Transportation

We encourage a sustainable transport system to achieve the objectives for reducing congestion, improved air quality and reduced carbon emissions. GMU's Transport department is committed to providing quality transportation by maintaining the highest level of safety, outstanding customer service, and positive employee relations. The team comprises experts in the areas of safety, training and development, vehicle maintenance, routing, and public relations. This makes us confident in providing exceptional services to our students, staff and guests, Training and Development is our core strength and helps deliver the highest quality of services.

Technical Training and validation

Driving-related staff training should be carried out as a regular part of the induction process. This should include a classroom training session on the contents of the driver handbook and a familiarization session with the drivers' future vehicles, covering vehicle controls, safety features and vehicle handling and routine services.

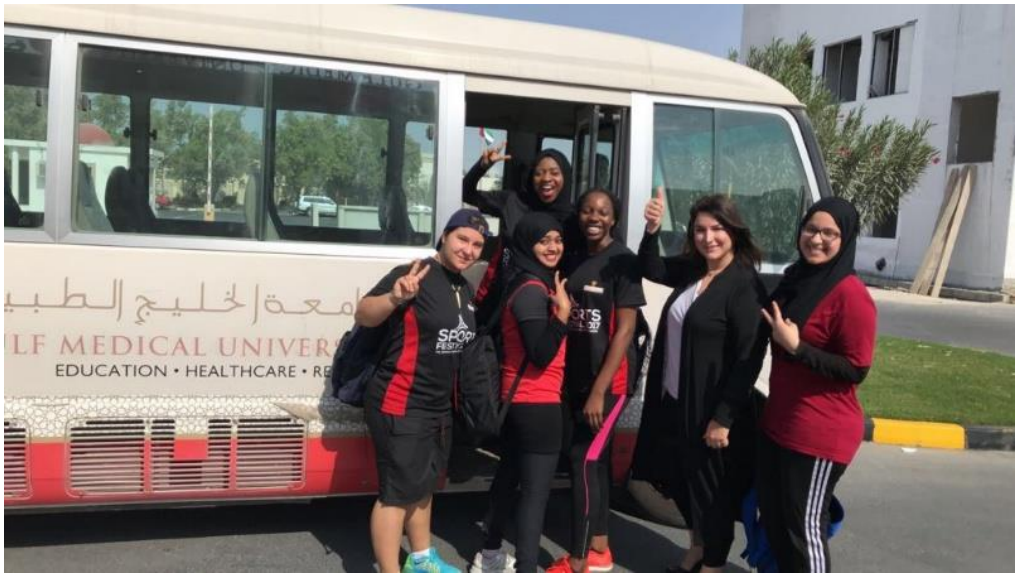
Key measures in place to reduce faulty incidents:

- Formal Training on Defensive Driving
- Driver Technical Training and validation
- Fines & Penalties will be deducted from their salaries
- Faulty Incident/Year/Driver will be taken into account and will reflect on the individual performance assessment
- Awards & Accreditation based on the Overall performance assessment

Route Planning, Implementation

Transport Department will always monitor Staff Transport Services, Its route map and pick up locations

We continuously monitor the routes and try to reduce unnecessary pickup points to make it a safe place to board. Once the route has been finalized after several trials, we map it on the G drive and will be able to share the detailed map after getting an email request, Staff Transport Service will be soon available on the employee portal where an individual can view their respective organization Transport Services, staff can access the detailed map so that they can look for the nearest stay on our regular routes.



The transport department has taken many initiatives to improvise the overall service performance by implementing key parameters in line with standard operating procedures such as:

- Driver Recruitment Assessment –Theory and Practical Sessions
- Driver Performance evaluation card
- Accident management
- Driver Training and Development
- Fleet Performance evaluation
- Fleet Service Logbook
- Route Planning, implementation and map sharing
- Shuttle Services
- Transport Portal Services
- Risk Management matrix
- Awards and accreditation

The majority of total energy use and CO2 emissions in the vehicle lifecycle occur during the use stage. There are big differences in the degree to which vehicles achieve their inherent environmental performance because of the way each person drives those vehicles, so awareness of "eco-driving" is an important issue. Eco-driving has the effect of reducing CO2 emissions through improved fuel efficiency, while it also contributes to fewer traffic accidents. We have put forward ten concrete action goals for our Drivers which enables them to quickly begin driving in environmentally considerate ways:

1. Accelerate gently
2. Maintain a steady speed and keep your distance

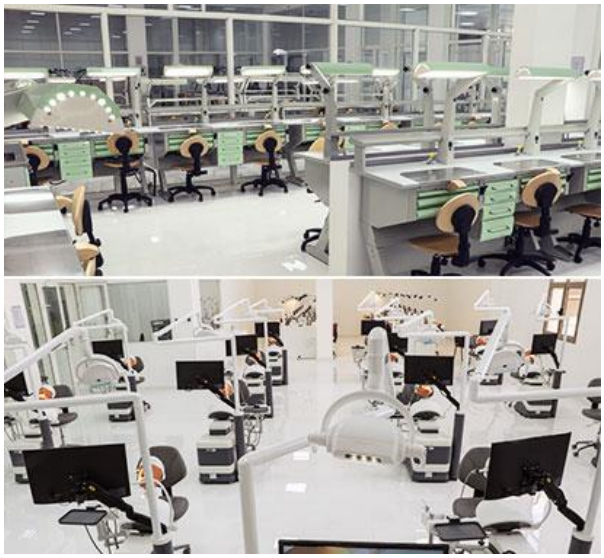
3. Slow down by releasing the accelerator
4. Make appropriate use of the air conditioner
5. Don't warm up or idle your engine
6. Plan itinerary to avoid congested routes
7. Do 4-Point Check before the journey – tire air pressure, radiator, coolant, service due's
8. Reduce load
9. Respect traffic rules and regulations
10. Check readings on fuel efficiency monitoring equipment

Sustainability of our Laboratories

Labs involve higher costs of building and operating than other classrooms, lecture halls, and office buildings. Further labs consume higher energy than other areas. The Lab in charge of all labs ensures that all equipment is turned off in unoccupied rooms. All equipment is periodically inspected as per the guidelines for lab maintenance guidelines. All labs have a well-defined lab waste disposal policy. Lab waste is disposed of through an outsourcing agency in strict compliance with the Ministry of Health (MoH) Rules and Regulations. Labs and other campus facilities are monitored 24/7 by the security and maintenance teams with CCTV cameras. Lab

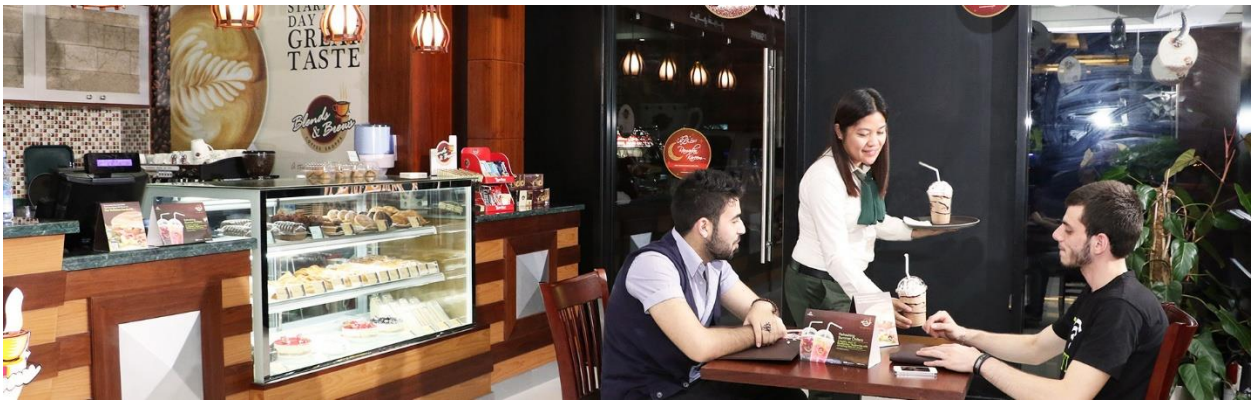
temperatures are adjusted appropriately in winter and summer to save energy. Lab equipment can be very energy-intensive, particularly fume hoods and devices are used to maintain hot or cold environments. Labs and their equipment are monitored as per the international guidelines. We are committed to protect our environment by being up to date on less toxic chemical alternatives and implement sustainable chemical practices at our labs. Some of the best practices we follow at our labs are:

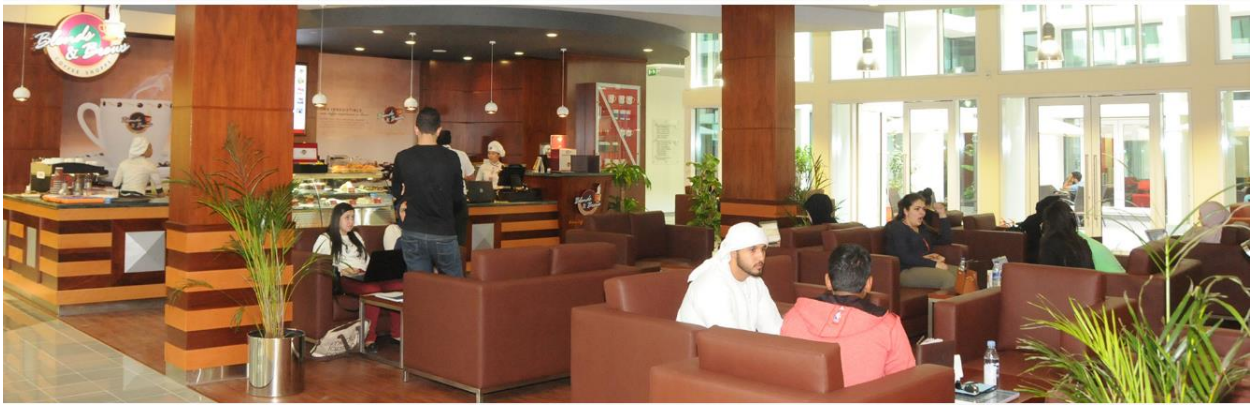
- Liquid nitrogen conservation is an important energy efficiency measure because the production of LN2 is an energy-intensive process. Treating liquid nitrogen (LN2) cell storage containers like a freezer, minimizing the amount of time the door is open, decreases the amount of LN2 that boils off.
- Most frequently accessed samples are stored near the top of the rack so that they can be accessed without compromising the temperature stability of other samples on the rack, and without letting a lot of LN boil off.
- Freezer map and inventory are posted on the lid of the freezer and a logical storage system is maintained to minimize time with the door open trying to find samples.
- Lid seals are checked regularly to ensure that it shuts properly.



Food

We encourage healthy, well-balanced and sustainable catering through our campus cafeteria. We ensure that our food items are purchased and processed under conditions that favor friendliness with the planet, animal rights and benefit the entire community. Our hospitality division manages our cafeteria and restaurant to offer healthy and well-balanced food for our staff and students. We adopt practices to save cooking fuel by using energy-efficient techniques. We also ensure maximum reduction of food waste.





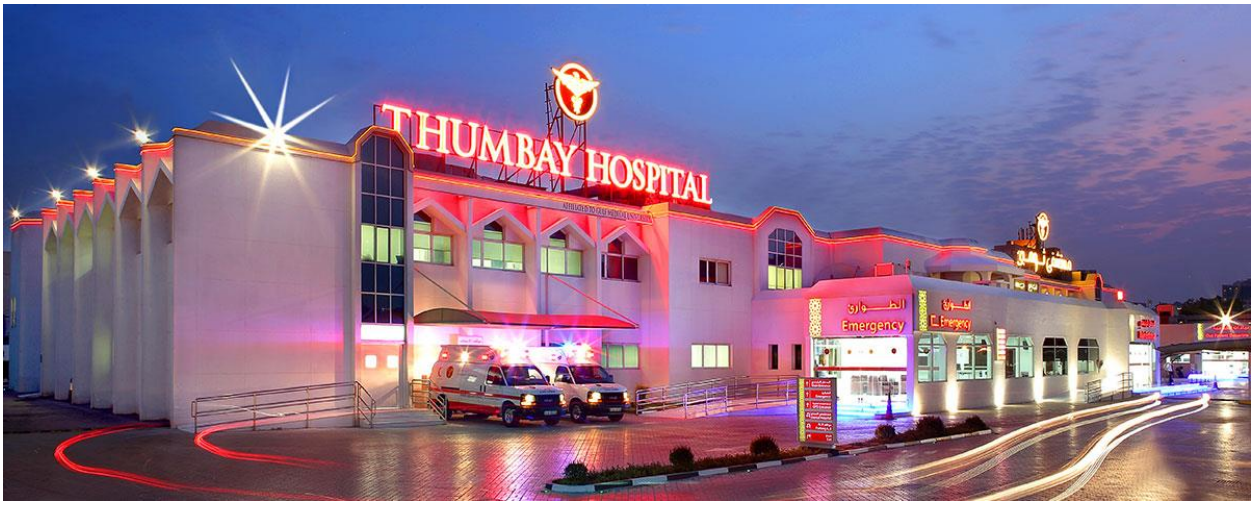
Sustainable Procurement

We source only from authorized agencies, dealers or distributors of well-established brands in the market. All our suppliers are registered and approved by the local regulatory bodies. Compliance with International quality standards such as ISO, CE, FDA, etc. are taken into consideration during supplier/product selection. Our best practices include:

- We substitute reusable products whenever it is possible. For disposable products, we consider products with reduced or recycled content packaging.
- We also encourage using end-of-life take-back programs, centralize chemical purchasing and keep our inventory up to date.
- We always verify energy-efficient options with our vendors, while purchasing a new appliance. In case of the absence of any such options, we encourage our vendors to supply more sustainable products at a competitive price.

Sustainable Construction

It is without question that one of the most important aspects of safe construction is Sustainability which describes our desire to execute construction activities without depleting resources or inviting harmful impacts. We ensure significant commitment to careful consumption of resources. We also demonstrate a commitment to safety by having a strong corporate safety policy, we also develop “site-specific safety plans” tailored to meet the needs of the specific projects. We further have a dedicated Quality Assurance/Quality Control program which is reviewed and updated frequently to maintain the highest standards of quality in construction.

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