



हरकोर्ट बटलर प्राविधिक विश्वविद्यालय

नवाबगंज, कानपुर - 208002, उ.प्र., भारत

HARCOURT BUTLER TECHNICAL UNIVERSITY

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100+
YEARS
1921 - 2021



SDG 13: Climate action

(Take urgent action to combat climate change and its impacts)

1. Objective

Climate Action is another one of the key Sustainable Development Goals (SDGs) aimed at taking urgent action to fight climate change and its impacts. Climate change carries a significant threat to ecosystems, human health, and economies worldwide. It focuses on reducing greenhouse gas emissions, increasing flexibility to climate-related impacts, and encouraging sustainable practices to moderate climate change effects.

2. Key Areas of Climate Action:

(a). Regulating Climate Change:

- **Control of Greenhouse Gas Emissions:** One of the core goals is reducing carbon emissions from industries, transport, and energy production. Countries and businesses are encouraged to adopt cleaner technologies and renewable energy sources like wind, solar, and hydropower.
- **Stimulating Renewable Energy:** The renewable energy sources is one of important key features to reducing dependence on fossil fuels and control climate change impacts.
- **Energy Productivity:** Proper use of energy consumption in buildings, transportation, and other utilities can significantly reduce carbon footprints and more energy efficient.

(b). Adaptation and Resilience:

- **Climate Change Adaptation:** It's essential to build resilience for climate change, such as rising sea levels, extreme weather events like droughts, floods, hurricanes, and temperature extremes. This includes enhancing disaster preparedness, improving infrastructure, and developing early warning systems.
- **Building Climate-Resilient Communities:** Communities, especially those in vulnerable areas, need support to adapt to climate change, ensuring sustainable livelihoods and protecting ecosystems.

(c). International Cooperation:

- **Climate Agreements:** The Paris Agreement, which aims to limit global warming to below 2°C (preferably 1.5°C) above pre-industrial levels, is central to international efforts. Countries are required to set national targets and report on their progress.



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- **Climate Business:** Developed nations have committed to providing financial assistance to developing countries to help them reduce emissions and adapt to climate change. This involves funding for renewable energy projects, disaster resilience, and capacity building.

(d). Promoting Sustainable Practices:

- **Sustainable Agriculture:** Climate-smart agriculture focuses on practices that increase food security while reducing greenhouse gas emissions, preserving soil health, and promoting biodiversity.
- **Sustainable Transportation:** Encouraging low-carbon modes of transport, such as electric vehicles, public transportation, cycling, and walking, is key to reducing emissions from the transportation sector.
- **Circular Economy:** Emphasizing the reduction, reuse, and recycling of materials reduces waste, conserves resources, and lowers carbon footprints.

(e). Education, Advocacy, and Awareness:

- **Raising Awareness:** Public education campaigns are essential to increase awareness of climate change and encourage individuals, businesses, and governments to take action.
- **Supporting Climate Research:** Increased investment in climate science, research, and data collection is needed to understand climate trends, assess risks, and develop effective solutions.

(f). Technological Innovation:

- **Green Technologies:** Innovations like carbon capture and storage (CCS), geoeengineering, and the development of more energy-efficient products can play a critical role in vindicating climate change.
- **Climate-Friendly Infrastructure:** Creating sustainable infrastructure, such as green buildings and urban spaces, can reduce carbon footprints and support climate adaptation.

3. Global Impact and Trends

- **Global Warming and Extreme Weather:** The effects of climate change are already evident through rising temperatures, melting glaciers, and more frequent and severe storms, floods, and wildfires. Immediate action is necessary to reduce future risks.
- **Carbon Neutrality:** Many countries, cities, and companies are aiming for "net-zero" carbon emissions by the middle of the century, committing to balance emissions with the removal of CO₂ from the atmosphere.



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- **Green Economy:** A growing number of economies are shifting toward sustainable, low-carbon models that prioritize environmental stewardship while creating economic opportunities.

4. Initiatives implementation by the University

- a) Trainings, Expert talks, Plantation drives, Signature/Pledge Campaigns, Nature Walks, Educational Visits, and the celebration of various Environment related days are some of the activities that are organized by the various departments of university. These activities are designed to raise awareness and encourage behaviour change in order to preserve the environment.
- b) To maintain the campus green, different plantation drives are held on a monthly basis. We have parks in the residential, academic, and administrative districts. Key species include mango, banyan, peepal, neem, and seasonal flowering plants including marigold and bougainvillea.
- c) Rain water harvesting systems adoption for water conservation