

DIT University Event Report 2022-23

SDG 6



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The advancement of the society in this age is only possible with mutual cooperation, collaboration, extending help to each section of the society and sharing of resources. The efficiency of achieving the SDGs become more while working in collaboration than an individual. This is true whether it is applicable for a person or an organization or a country. Wastage of resources must be zero and at the same time abundant resources must be generously shared with those not having access. This mutual cooperation is the fundamental principle of sustainability with involvement and participation of all. UN SDG17 aims to revitalize the global partnership for sustainable development. In line with UN SDG principle DIT University firmly believes in collaboration be it in research or resource sharing or implementation of its work culture not only inclusive but exclusive of University premises. The supportive and flexible work culture of DIT University essentially lies on the proposition of trust-integrity, employee engagement-opportunities, respect-fairness.

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Events organized by DIT University to provide educational opportunities for local communities to learn about good water management

Significance of SDG 6

SDG 6: Clean Water and Sanitation

Water is essential requirement of life. If water is pure it can sustain lifeforms on the other aspect, polluted water is the cause of disaster. UN SDG 6 promotes 'Clean Water and Sanitation' ensuring access to water and sanitation for all. All stakeholders of society are having the fundamental rights to access this resource in easily accessible and clean form. Also the society must ensure the water as resource must not be polluted by human activities. Wastage must be eradicated. At present, it is becoming very difficult to obtain sufficient quantity and good quality water. All this is due to unscientific usage. Also the resource is continuously diminishing at various sources and going out of access to certain sections of society. So it is our duty to ensure the sustainability of water through pollution mitigation, judicious usage and environmental awareness. DIT University promotes this objective through its policy of sustainable water usage, reuse of waste water, conservation principle and promoting same through research and outreach activities.

DIT University Annual Activity

DIT University organizes various events and activities throughout the year on "**Clean water and Sanitation**" that include Club activities, outreach events, webinars, guest lectures, conferences, community reach programs, social-environmental-health awareness events which are documented and information are regularly circulated in social media platforms. The SDG specific events are presented here. Additionally, the activity information are always uploaded in website open for public information.

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(Session on ‘Importance of Water Conservation in sustainable city’)

Name of the Event Coordinator/Convenor: Department of Civil Engineering, SoET, DIT University	Name of the Event: ‘Importance of Water Conservation in sustainable city’
Name of the Collaborator (if any) : Centre School of Tibetans Mussorrie.	Name of The Resource Person (Multi entry in case of more than one resource) :
Start Date and End Date : 12 June, 2023	No. of Participant (Students and Faculty): 35

DETAILS ABOUT THE EVENT:

Event Description
<p>Brief text with introduction, event details, content and outcome:</p> <p>Relevance ted to SDG 6 Clean Water and Sanitation:</p> <p>The event inspired students to study more about importance of water for life and to take steps necessary in future to prevent water pollution and conserve depleting water resources especially in the context of Dehradun where acute water shortage happens in summer.</p> <p>On June 12, 2023, the Department of Civil Engineering at DIT University organized an insightful session titled "Importance of Water Conservation in Sustainable City" for school children from the Centre School of Tibetans in Mussoorie. The primary objective of the event was to educate young minds about the vital role of water conservation in promoting sustainable urban environments. The session commenced with a warm welcome from faculty members, followed by engaging presentations that highlighted the global water crisis and its implications for future generations.</p> <p>Participants learned about practical water conservation techniques, including rainwater harvesting and greywater recycling, complemented by interactive demonstrations that illustrated these methods effectively. The concept of sustainable cities was introduced, emphasizing the significance of efficient water management in urban planning. To foster engagement, students participated in group discussions and brainstorming activities, sharing their innovative ideas on conserving water in their homes and communities.</p> <p>The event concluded with a dynamic Q&A session, where students eagerly clarified their doubts and expressed their enthusiasm for adopting water-saving practices. The feedback from participants was overwhelmingly positive, with many expressing appreciation for the interactive nature of the session and their commitment to implementing the knowledge</p>

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gained. Overall, the event successfully inspired the students to take an active role in environmental conservation, leaving a lasting impact on their understanding of water sustainability.

Photograph of the event.



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(Session on ‘Role of Civil Engineering in Ensuring Safe Water resources)

Name of the Event Coordinator/Convenor: Department of Civil Engineering, SoET, DIT University	Name of the Event: Role of Civil Engineering in Ensuring safe Water resources
Name of the Collaborator (if any) : Diploma College Ranipokhri Dehradun.	Name of The Resource Person (Multi entry in case of more than one resource) :
Start Date and End Date : 24 th May, 2023	No. of Participant (Students and Faculty): 41

DETAILS ABOUT THE EVENT:

Event Description
<p>Brief text with introduction, event details, content and outcome:</p> <p>Relevance ted to SDG 6 Clean Water and Sanitation:</p> <p>The relevance of this event to Sustainable Development Goal 6 (SDG 6), which aims to ensure availability and sustainable management of water and sanitation for all, is profound. By equipping students with knowledge and practical skills in civil engineering related to water resources, the session directly contributes to fostering a generation of professionals who can address water scarcity, improve water quality, and implement sustainable practices.</p> <p>On May 24, 2023, the Department of Civil Engineering at DIT University organized an informative session titled "Role of Civil Engineering in Ensuring Safe Water Resources," aimed at educating students from Diploma College Ranipokhri, Dehradun. The session highlighted the critical contributions of civil engineering in the management and preservation of water resources, emphasizing sustainable practices and innovative technologies. Students actively participated in hands-on experiments in both the Environmental Engineering Lab and the Hydrological and Hydraulics Machine Lab, where they engaged in practical applications of theoretical concepts. These experiments not only enhanced their understanding of water quality assessment and hydraulic systems but also underscored the importance of civil engineering in addressing contemporary water resource challenges. The event fostered a collaborative learning environment, encouraging students to explore the vital intersection of engineering and environmental stewardship.</p>
<p>Photograph of the event.</p>

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(Training and awareness Program for Tribal youths for protecting heritage and environmental resources)

Name of the Event Coordinator/Convenor: Chief proctor: Dr Naveen Singhal	Name of the Event: Training and awareness Program for Tribal youths for protecting heritage and environmental resources
Name of the Collaborator (if any) :	Name of The Resource Person (Multi entry in case of more than one resource) :
Start Date and End Date : 4 th October, 2023	No. of Participant (Students and Faculty): 52

DETAILS ABOUT THE EVENT:

Event Description
<p>Brief text with introduction, event details, content and outcome:</p> <p>Relevance ted to SDG 6 Clean Water and Sanitation:</p> <p>The significance of this event is underscored by its alignment with Sustainable Development Goal 6 (SDG 6), which aims to ensure availability and sustainable management of water and sanitation for all. By equipping tribal youths with the knowledge and skills necessary for effective water resource management and environmental conservation, the program directly contributes to achieving SDG 6. It highlights the importance of community involvement in sustainable practices, particularly in rural areas where water scarcity and environmental degradation are pressing issues. The initiative not only promotes the conservation of vital resources but also empowers local communities to take charge of their environmental stewardship, thereby fostering a sustainable future that aligns with global development goals.</p> <p>On October 4, 2023, the Office of the Chief Proctor organized a comprehensive Training and Awareness Program aimed at empowering tribal youths to protect their heritage and environmental resources. The event was anchored in the ethos of Vasudhaiva Kutumbakam, emphasizing the concept of the world as one family. Participants engaged in discussions and activities focused on the critical importance of water resource management at the rural level, highlighting sustainable practices that can be adopted within their communities. The program also underscored the significance of environmental conservation and the promotion of local</p>

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traditional technologies, which play a vital role in conserving water, soil, and forestland. Through interactive sessions and hands-on workshops, the training equipped attendees with the knowledge and skills necessary to implement these practices effectively, fostering a sense of responsibility and stewardship towards their natural heritage. The initiative not only aimed to enhance awareness but also sought to inspire a collective commitment among the youth to safeguard their environment for future generations.

Photograph of the event.



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(Design of Sustainable Building Architecture for Better Water Management)

Name of the Event Coordinator/Convenor: Architecture Department, DIT University	Name of the Event: Design of Sustainable Building Architecture for Better Water Management
Name of the Collaborator (if any) : Tibetan Homes School, Mussoorie	Name of The Resource Person (Multi entry in case of more than one resource) :
Start Date and End Date : 16 th November, 2023	No. of Participant (Students and Faculty): 46

DETAILS ABOUT THE EVENT:

Event Description
<p>Brief text with introduction, event details, content and outcome:</p> <p>Relevance ted to SDG 6 Clean Water and Sanitation:</p> <p>The event holds significant relevance in the context of Sustainable Development Goal 6 (SDG 6), which aims to ensure availability and sustainable management of water and sanitation for all. By focusing on sustainable building architecture, the event addressed critical issues related to water scarcity and quality, which are central to SDG 6. The discussions and workshops emphasized the importance of innovative design strategies that can mitigate water wastage and enhance the efficiency of water use in urban environments.</p> <p>On November 16, 2023, the School of Architecture Planning and Design organized a pivotal event focused on the "Design of Sustainable Building Architecture for Better Water Management" at the Tibetan Homes School in Mussoorie. The event brought together architects, environmentalists, and students to explore innovative architectural solutions that promote efficient water management in building designs. Keynote speakers presented case studies highlighting successful sustainable practices, while interactive workshops allowed participants to engage in hands-on activities that emphasized the integration of water conservation techniques in architectural planning. The event fostered a collaborative environment, encouraging dialogue on the challenges and opportunities in sustainable architecture, ultimately aiming to inspire future professionals to prioritize water management in their designs.</p>

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Photograph of the event.



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July 17, 2023

Water Conservation Policy (Revised) of DIT UNIVERSITY

PREAMBLE

The water policy of DIT University aims to follow the collection, distribution, utilization, re usage and conservation of water in a sustainable way in line with objective of the University to establish a sustainable Campus in line with the famous saying of "Every Drop Counts". The policy ensures most effective ways to ensure avoidance and no wastage and optimum utilization of water with appropriate infrastructure planning and execution at ground level with cooperation of all the stakeholders of University.

Objective

DIT University has strong water policy that ensures pollution free clean water for all stakeholders of University and use of same in most sensible and sustainable ways with the inclusion of water conservation principles.

1. Water Collection

University receives water from following sources:

1. Tubewell (900 cubic metre per day)
2. Uttarakhand 's Jal Sansthan (4 water supply lines, which provide total 250 cubic metre per day)

Tubewell water source near University is taken from artesian well which do not require any pumping to be done extra to extract from groundwater. Hence there is no additional pressure on existing groundwater table in process of extraction. Only, the accumulated water is pumped to water storage.

Uttarakhand Jal Sansthan further extract water from nearby river resources which are precipitation fed small tributaries, natural springs and tubewells as per the Government policy.

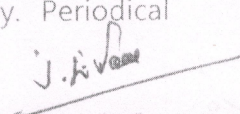
2. Water Storage

University has water storage capacity of total 700 cum which is constantly being used and filled up whenever required. The storage is fitted with prevention of water overflow to stop water wastage.

3. Water Distribution System

University is having layout of water supply lines scientifically designed with corrosion free and durable materials that maximize leak proof water supply and prevent contamination from outside sources. Both water supply and sewer lines are running apart having reasonable six feet distance longitudinally & vertically. Periodical

Established vide Uttarakhand Act No. 10 of 2013
Recognized by UGC under Section 2 (f) of the UGC Act, 1956



maintenances are conducted for both the lines to prevent any mechanical failure and leakage in pipelines. University also takes care of any further water accumulation near the lines during precipitation to stop contamination.

4. Water Treatment Facilities

University has advanced water treatment facility consisting of three types of filters for which is combined with storage facility to provide additional treated water after water collection from sources: Multi Graded Filter (MGF), Activated Carbon Filters (ACF), Water Softener.

MGF is used to remove suspended solids, dust and dirt present in the water. ACFs are used in the process of removing organic compounds. Water softener is deployed for keeping water hardness within permissible limit.

5. Water Usage

Per day water consumption is 600 cubic metre with full capacity of 6000 Students that include 2000 hostlers and 4000 day scholars, 600 number staff and 100 number of visitors.

6. Water Distribution Policy

DIT University believes everyone is having fundamental right to get potable water without any conditions and constraints in society. Therefore, University shares and distributes its water resources free for all its stakeholders and outside guests. There is no financial charge attributed on anyone for water usage. However, University promotes and encourages all for sustainable use of this resources.

7. Strategy of Building to minimize the Water Usage

DIT University buildings are fitted with pressmatic water dispensing taps and flushing cisterns with minimum time setting to reduce water wastage. Same is also done in laboratories where sink is used.

8. Waste Water Management Facility

University has sewage treatment plant (STP) facility of capacity 500 cubic meter per day capacity to handle waste water of the University. In addition to this, another unit of 265 cubic meter per day capacity is kept on standby in case of emergency of maintenance of the primary unit or non-functioning. STP process and test results are well maintained in log book. The quality of water is periodically tested in Government approved laboratories and submitted to concerned offices.



J. K. Datta

DIT UNIVERSITY

9. Water Reuse

DIT University complies with zero discharge policy of the Central and State Pollution Control Board. No water is discharged to the surrounding environment. All the used water is treated in STP and reused for Horticulture & Flushing of Toilets.

10. Water Conservation Facilities

University has water harvesting plant where rain water of 1200 m² area is collected & discharged to ground water after passing through six stage cleaning /filtration process. The complete process is defined at site also documented. Average rain fall is approx. 1500mm (Annual), total area is 1200 m² for water harvesting pit, approx.1100 cubic meter water every year.


11. University Aims and Initiatives

11.1 Responsibilities of Stakeholders

- Proactively support of all stakeholder in execution of water sustainability measures by University
- Self-motivation among all to stop water wastage wherever the same is found.
- Judicious use of water for drinking and other purposes
- Proactively reporting and taking measures if there any leakage or mechanical failure in water supply lines.
- Enthusiastic participation in all water conservation related activities hosted by University on and off campus.
- Commitment towards green campus policy and environmental management
- Involvement in community program for awareness campaign outside University campus

11.2 Monitoring, Maintenance and Records

- Monitor water supply records periodically with log book
- Maintenance record of water supply systems, storage and leakage
- Replacement of faulty pipelines, joints, taps, closets, Pipe appurtenances
- Use of cost effective, durable, environmental friendly materials in water and water pipelines and appurtenances
- Updation and planning of pipe network as per the requirements of new buildings to be constructed and its floor plans in the campus.
- Periodical efficiency measurement of water pipe appurtenances
- Planning of integrated water management system in campus


J. K. Jais

11.3 Water Audit and Compliance of Recommendations

- Updated documentation on water volume extraction, storage, distribution, reuse.
- Updated record of reports of maintenance need and subsequent actions taken
- Periodical internal and external audit.
- Analysis of the audit report in statutory bodies and further recommendation plan
- Vision and planning of achieving water efficient building standards

11.4 Education, research and outreach programs to promote water sustainability

- Integration of courses and programs related to environmental sustainability, water quality management, waste water treatment, rainwater harvesting
- Ensuring minimum courses to be opted by university students as core mandatory courses and increase the limit for option for free courses.
- Arranging joint collaborative workshops or conferences on environmental sustainability. Enhance the collaborative research on same with national and international agencies.
- Involvement in national and international missions to promote sustainability through panel discussions, debates, joint statements, publications
- Appropriate signages and posters on campus to promote awareness on water saving, water conservations

11.5 Promotion of University's Sustainability pledge as regular practice

- Promotion of University's Sustainability pledge as regular practice in Academic Activities, field trips, outreach activities for students and faculty members.
- Promotion of the Sustainability pledge for University staffs to get more awareness, knowledge and commitment towards sustainable practices.

11.6 Celebration of Events of Environmental Importance

DIT University regularly celebrates World Earth Day, World Environment Day, Tree Plantation Program (specifically 'Harela', 'Ek Ped Maa Ke Naam'- State & Central Government initiatives), Cleanliness Drive ('Swachh Bharat Abhiyan' - Government of India initiatives), Conservation Awareness Programs.

Students and Staffs of the University enthusiastically participate in these events and commit themselves for the Conservation of Environment. DIT University also invites participants from other Academic Institutions, Local villages and communities in these programs.

V. K. Sharma