



Clean and Green Campus Initiatives

Academic Session: 2022-23



Registrar
Quantum University

S. No	Department	Title	Venue/Key Person	Affiliation	Date	No of Students
01	Department of Civil Engineering	Workshop on Green Energy: Connecting Environment Promotion and Sustainability	Quantum University/Er. Rajiv Sharma	Quantum University, Roorkee	13/09/2022	40
02	Department of Agricultural Studies	Cleanliness Drive in Quantum University on the occasion of "NSS Day Celebration"	Quantum University / Dr. Avinash Varma and Mr. Pradeep Kumar Varma	Quantum University, Roorkee,	24/9/2022	80
03	Department of Agricultural Studies	Carbon Credits Footprint: Baans Plantation on the occasion of "Bamboo Plantation Day"	Quantum University, Roorkee/Mr. Rahul Jain	Quantum University, Roorkee	26/04/2023	20
04	Department of Sciences	Water Quality Monitoring: Enhancing Environmental Promotion and Sustainability	Quantum University/ Dr. C. K. Jain	Quantum University, Roorkee	11/03/2022	50
05	Department of Agricultural Studies	Celebration of The International Day of Forests: Promoting Environment and Sustainability at Quantum University	Quantum University/Mr. Pradeep Kumar Verma	Assistant Professor, Quantum University, Roorkee	21/03/2023	52


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06	Department of Business	<i>Go Green: Promoting Environment Sustainability at Quantum University</i>	Quantum University/ Dr. Mehak	Quantum University, Roorkee	28/03/2023	40
07	Department of Agricultural Studies	Awareness Campaign on World No Tobacco Day	Quantum University Campus/ Dr. Avinash Varma and Mr. Pradeep Kumar Verma	Quantum University, Roorkee	31-05-2023	50
08	Department of Agricultural Studies	Harela Festival	Quantum University, Roorkee/ Dr. Gaurav Aggarwal	Quantum University, Roorkee	19/07/2023	5



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1.Workshop on Green Energy: Connecting Environment Promotion and Sustainability at Quantum University, Roorkee-13/09/2022

The Civil Engineering Department organized a One-day workshop on "Green Energy". The event served as a platform to build capacities in green energy and sustainable city planning including green and renewable energy options as well as challenges and opportunities for applying sustainability concept in an economic, social and environmental context.

The workshop was led by Er. Rajiv Sharma, Er Hari krisna and Er. Simit Katariya. The lecture focused on key topics including green transportation policies and planning; green infrastructure development; green and renewable energy; waste-to-energy; waste management; electric vehicle; power supply using biomass; and wastewater management.

The workshop concluded with a visit to the 110KW solar power plant of Quantum University. The total strength was 40 and Students were from B. Tech. and BCA.

The Workshop on Green Energy serves as a catalyst for environment promotion and sustainability by raising awareness, encouraging renewable energy adoption, fostering innovation, influencing policy changes, enhancing energy efficiency, and engaging local communities.

The student gets a good knowledge of renewable energy systems, their components and interactions between the components. By connecting these aspects, the workshop plays a pivotal role in driving the transition to a greener and more sustainable future.



Workshop on Green Energy, Quantum University, Roorkee

2.Cleanliness Drive in Quantum University Campus- 24/09/2022

The Department of Agricultural Studies in association with NSS unit and Pahal Social Club of the University organized Cleanliness Drive at Quantum University Campus on the occasion of NSS Day Celebration on 24th Sept. 2022.

NSS volunteers of the college conducted campus Cleanliness Drive under the supervision of NSS Programme Officer Mr. Pradeep Kumar Verma and able guidance of Hon'ble VC Sir, Registrar Sir and Director Sir on NSS Day. The NSS volunteers cleaned the University campus and collected plastic garbage from every nook and corner of the college premises.

They also carried out a campaign on, "Say No to Plastic" and emphasized making the campus plastic free. Around 80 NSS volunteers participated in this cleanliness drive and Awareness campaign.

Overall, the cleanliness drive in Quantum University Campus can serve as a catalyst for promoting environmental awareness, sustainable practices, and community involvement. It can contribute to the larger goal of building a greener campus and more sustainable future.



Cleanliness Drive in Quantum University Campus on the NSS Day Celebration

3. Carbon Credits Footprint: Baans Plantation on the occasion of “Bamboo Plantation Day” in Quantum University Campus- 26/04/2023

Baans Plantation, a sustainable agricultural enterprise, has undertaken an assessment of its carbon credits footprint to evaluate its environmental impact.

On this Occasion Prof. Vivek Kumar, Hon’ble Vice Chancellor, Quantum University, planted the saplings of bamboo as a chief guest and addressed the students about the plantation of bamboo saplings. Mr. Rahul Jain, Expert, Dr. Gaurav Agarwal, Head of the Department, Department of Agricultural Studies and all the faculties of Department of Agricultural Studies planted trees as plantation drive to keep campus green. The main purpose of celebrating this day is to encourage awareness among students about the importance of bamboo trees in our life.

Bamboo plants absorb enormous amounts of greenhouse gases, and because of its rapid growth, bamboo is very useful as a tool for carbon sequestration. Planting more trees will contribute to global reforestation efforts, restoring lost forests, repairing damaged ecosystems and mitigating climate changes. Around 80 student volunteers participated in this event.

A "Carbon credits footprints plantation of Baans" can play a significant role in environmental promotion and sustainability by sequestering carbon, offsetting emissions, conserving biodiversity, promoting sustainable resource utilization, preventing soil erosion, and supporting rural development.

In conclusion, baans plantations represent an innovative and promising approach to addressing climate change while fostering sustainable development.



Plantation of the saplings of bamboo plant

4. Water Quality Monitoring: Enhancing Environmental Promotion and Sustainability, Quantum University-11/03/2022

Water quality monitoring plays a pivotal role in assessing, maintaining, and improving the health of water bodies. Beyond its direct implications for human health, water quality monitoring is closely connected to environmental promotion and sustainability in numerous ways. This report explores the various connections between water quality monitoring and the promotion of a healthier and more sustainable environment.

On 11th March 2022, the Department of Sciences, Quantum University organized an online guest lecture on Water Quality Monitoring delivered by Dr. C. K. Jain, Expert. The aim of the lecture was to enhance the understanding of students and faculty regarding the importance of water quality assessment and monitoring, and its significance in ensuring public health and environmental sustainability. Around 50 students attended the lecture.

The guest lecture on Water Quality Monitoring provided valuable insights into the assessment, monitoring, and management of water quality. The session enhanced the knowledge of students and faculty members and highlighted the significance of water quality for human health and environmental sustainability. The event encouraged participants to further explore this field and contribute to ensuring safe and clean water resources for future generations.



Dr. C.K. Jain Delivering Lecture on Water Quality Monitoring

5. Celebration of The International Day of Forests: Promoting Environment and Sustainability at Quantum University- 21/03/2023

The International Day of Forests, celebrated on March 21st each year, aims to raise awareness about the importance of forests and trees for the planet. Quantum University, known for its commitment to environmental stewardship, organized a vibrant celebration on this day to highlight the significance of forests and their connection to environment promotion and sustainability. The celebration was led by Mr. Pradeep Kumar Verma, Assistant Professor, Department of Agricultural Studies.

This year, Department of Agricultural Studies celebrated the day with the Registrar, Director, Dean Academics, Heads of the other departments, faculty members and the students at the university.

The Registrar and the Director blessed Department of Agricultural Studies students to understand the significance of forests and the role they play in climate change mitigation, how useful they are as sources for food, water, raw materials and other uses.

As the UN theme for this year was “Forests and Health”, Forests are home to more than 80 per cent of the terrestrial species of animals, plants and insects. They provide shelter, jobs and security for forest-dependent communities, with approximately 1.6 billion people relying on forest resources for their livelihoods, with most of them (1.2 billion) using trees on farms to generate food and cash. Ecosystem services are essential for human wellbeing. They provide food, water, energy and other benefits. Thus, it is important to connect ecosystems to global development priorities.

The head of the department (Dr. Gaurav Aggarwal), and other faculty members of the department, were grateful to all for coming together to promote the International Day of Forests celebration with Department of Agricultural Studies.

Around 52 students took part in two events, i.e., oral presentation and poster making competition to mark the day.

The students of the campus participated in the event by expressing their views on how forests should be protected in relation to its role in human health for most communities, asking interesting questions and answering very challenging questions which proved that the

young understood the benefits of forests and health play in their lives and the climate change mitigation process as a whole. All the students were glad they were part of a celebration of this kind and expressed their keen interest in celebrating the day annually.

The celebration of The International Day of Forests at Quantum University showcased the institution's commitment to environment promotion and sustainability. By emphasizing forest conservation, biodiversity protection, carbon sequestration, watershed management, sustainable practices, and education, the event highlighted the critical role of forests in sustaining a healthy planet. Quantum University's efforts serve as an inspiration for other institutions and individuals to actively engage in environmental stewardship and work towards a sustainable future.



Celebration of the International Day of Forests



6. Go Green: Promoting Environment Sustainability at Quantum University **-28/03/2023**

Department of Business Organized “Go Green: Promoting Environment Sustainability” on 28th March, 2023. Quantum University has prioritized sustainable infrastructure development on its campus. The construction and maintenance of eco-friendly buildings, energy-efficient lighting systems, and the implementation of renewable energy sources, such as solar panels, significantly reduce the university's carbon foot print. Moreover, the university promotes water conservation through rainwater harvesting systems and the use of low-flow fixtures, minimizing water waste.

A Poster making competition was organized by Dr. Mehak, Assistant Professor, Department of Agricultural Studies, in order to make students understand the primary purpose of the negative environmental effects of human consumption. The objective was to increase public awareness about environmental issues, explore possible solutions, and to lay the foundations for a fully informed and active participation of individuals in the protection of the environment and the prudent and rational use of natural resources.

With a focus on environmental justice, students developed critical-thinking skills, analyze real-world problems and understand the power of narrative to create sustainable solutions for local and global communities at large. The event was a huge success with a participation of around 40 students.

Quantum University's commitment to environmental promotion and sustainability is evident through its various initiatives. From sustainable campus infrastructure to waste management, green transportation, environmental education, community engagement, and responsible procurement practices, the university strives to create a culture of sustainability. By integrating these efforts into its operations and fostering a sense of environmental responsibility among its students and stakeholders, Quantum University is actively contributing to a greener and more sustainable future.



A Poster Making Activity on “Go Green: Promoting Environment Sustainability”

7. World No Tobacco Day Celebration at Quantum University: Promoting Environment and Sustainability, Roorkee- 31/05/2023

World No Tobacco Day (WNTD) is observed around the world every year on May 31. It is intended to encourage 24 hours of abstinence from all forms of tobacco consumption around the globe. This year's theme is "Grow food, not tobacco".

The 2023 global campaign aims to raise awareness about alternative crop production and marketing opportunities for tobacco farmers and encourage them to grow sustainable, nutritious crops.

Department of Agricultural Studies in association with the NSS Unit and Pahal Social Club of the University celebrated World No Tobacco Day on 31st May, 2023.

Members of NSS Unit and Pahal Social Club organized an awareness campaign on World no tobacco Day at University Campus on harmful effect of tobacco on human health through street show. The event was led by Dr. Avinash Varma and Mr. Pradeep Kumar. Hon'ble VC Sir, Registrar Sir and Director Sir, Dean Academics delivered speeches on this occasion and described the harmful effects of tobacco products, highlighted the risks involved in the chewing of tobacco and urged the students to keep away from these products. In these event students, faculties and staff participated actively with over a count of 50 students.

The World No Tobacco Day celebration at Quantum University effectively highlighted the intrinsic linkages between tobacco control, environment promotion, and sustainability. By raising awareness about the environmental impact of tobacco farming, pollution and waste generation, air quality, and overall health, the event showcased Quantum University's commitment to creating a sustainable and healthier future. Promoting a tobacco-free environment contributes to the well-being of individuals, protects ecosystems, and fosters a more sustainable society.



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World No Tobacco Day Celebration at Quantum University

8.Celebration of Harela Festival at Quantum University Campus:

19/07/2023

The Harela Festival is a traditional festival celebrated in the state of Uttarakhand, India, with deep-rooted cultural significance. It marks the onset of the monsoon season and is dedicated to preserving and nurturing the environment.

Quantum University, Roorkee, celebrated Harela Festival by planting the trees in the campus on 19th July 2023. On this occasion Prof. Vivek Kumar (Vice Chancellor), Quantum University, Roorkee are invited as Chief Guest to grace the Occasion.

Other dignitaries of the University, Prof. Amit Dixit (Registrar), Dr Manish Srivastava (Director, QST), Dr Manish Sharma (Director, QST), Dr Satender Kumar (Dean Academics), Heads of various department, faculty members and students show their presence to grace the occasion and participated in the drive enthusiastically.

Prof. Vivek Kumar (Vice Chancellor), Quantum University, Roorkee supported the tree sapling plantation drive and motivated the faculty members to take care of the saplings so that they grow into healthy trees. All the dignitaries and faculty members planted the sapling and took the oath.



Harela festival Celebration at Quantum University Campus, Roorkee