

# QUANTUM UNIVERSITY



## UNNAT BHARAT ABHIYAN



## A DETAILED PROGRESS REPORT

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## Overview of UNNAT BHARAT ABHIYAN (UBA)

As foreseen by Gandhi Ji in his seminal work, 'Hind Swaraj', the western developmental paradigm, based on centralized technologies and urbanization, has given rise to serious problems like increasing inequity (leading to crime and violence), and climate change due to rapid ecological degradation. To ameliorate these problems, it is necessary to promote development of rural areas in tune with Gandhian vision of self-sufficient 'village republics', based on local resources and using decentralized, eco-friendly technologies so that the basic needs of food, clothing, shelter, sanitation, health care, energy, livelihood, transportation, and education are locally met.

This should be the vision of holistic development of villages. Presently, 70% of the population in India lives in rural areas engaged in agrarian economy with agriculture and allied sectors employing 51% of the total work-force but accounting for only 17% of the country's GDP. There are huge developmental disconnects between the rural and urban sectors such as inequity in health, education, incomes and basic amenities as well as employment opportunities - all causing great discontent and large-scale migration to urban areas. The imperatives of sustainable development which are being felt more and more acutely all over the world also demand eco-friendly development of the villages and creation of appropriate employment opportunities locally. Increasing urbanization is neither sustainable nor desirable. So far, our professional higher education institutions have largely been oriented to cater to the mainstream industrial sector and, barring a few exceptions, have hardly contributed directly to the development of the rural sector. Unnat Bharat Abhiyān (UBA) is a much needed and highly challenging initiative in this direction.

### History

The conceptualization of Unnat Bharat Abhiyan started with the initiative of a group of dedicated faculty members of Indian Institute of Technology (IIT) Delhi working for long in the area of rural development and appropriate technology. The concept was nurtured through wide consultation with the representatives of a number of technical institutions, Rural Technology Action Group (RuTAG) coordinators, voluntary organizations and government agencies, actively involved in rural development work, during a National workshop held at IIT Delhi in September, 2014. The workshop was sponsored by the Council for Advancement of People's Action and Rural Technology (CAPART), Ministry of Rural Development, Govt. of India. The program was formally launched by the Ministry of Education (MoE) (formerly Ministry Human Resource Development (MHRD)) in presence of The President of India on 11th November, 2014.

### Vision

Unnat Bharat Abhiyan is inspired by the vision of transformational change in rural development processes by leveraging knowledge institutions to help build the architecture of an Inclusive India.

### Mission

The Mission of Unnat Bharat Abhiyan is to enable higher educational institutions to work with the people of rural India in identifying development challenges and evolving appropriate solutions for accelerating

sustainable growth. It also aims to create a virtuous cycle between society and an inclusive academic system by providing knowledge and practices for emerging professions and to upgrade the capabilities of both the public and the private sectors in responding to the development needs of rural India.

### Goals

- To build an understanding of the development agenda within institutes of Higher Education and an institutional capacity and training relevant to national needs, especially those of rural India.
- To re-emphasize the need for field work, stake-holder interactions and design for societal objectives as the basis of higher education.
- To stress on rigorous reporting and useful outputs as central to developing new professions.
- To provide rural India and regional agencies with access to the professional resources of the institutes of higher education, especially those that have acquired academic excellence in the field of science, engineering and technology, and management.
- To improve development outcomes as a consequence of this research. To develop new professions and new processes to sustain and absorb the outcomes of research.
- To foster a new dialogue within the larger community on science, society and the environment and to develop a sense of dignity and collective destiny.

### A Detailed Report on Unnat Bharat Abhiyan Activities

This Comprehensive Progress Report from Quantum University offers a detailed account of the initiatives undertaken under the diligent guidance of UBA Coordinator Mr. Pradeep Kumar Verma. These initiatives have been meticulously executed in the adopted villages associated with Quantum University. The report provides a comprehensive overview of all activities conducted under the UBA program, encompassing its inception up until the present date.

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Sr.No.	ADOPTED VILLAGES	TALUKA(Block)	DISTRICT
1	Mandawar	Bhagwanpur	Haridwar
2	Chauli		
3	Hasanpur		
4	Alawalpur		
5	Dadapatti		

  
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**Title of the Activity: A Seminar with Farmers (Kishan Goshti)**

**Need of the Activity:** To aware the farmers about latest agriculture technologies

**Brief Description (Need/Impact/Action/Picture (if any):**

On 24th February 2022, an insightful seminar on the integration of the latest agricultural technologies and the role of students in transferring these technologies to farmers' fields was held. The seminar aimed to enlighten farmers about the benefits of adopting modern agricultural techniques and to empower students to bridge the gap between technological advancements and traditional farming practices.

**1. Presentation on latest Agricultural technologies:** The seminar elucidated the various ways farmers could benefit from the implementation of the latest agricultural technologies. The emphasis was on improving farmers' income per unit cultivated area. The speakers highlighted innovative techniques and technologies, demonstrating their practical applications in agriculture.

**2. Role of Students in Technology Transfer:** The seminar underscored the pivotal role students play in transferring modern agricultural technologies to farmers. Students were encouraged to engage in knowledge exchange programs, workshops, and on-field training sessions. The objective was to create a collaborative environment where students actively participate in disseminating knowledge to farmers, thereby fostering sustainable agricultural practices.

**Technical Sessions:**

**1. Natural Farming (Dr. Anjay Bisht):** Dr. Anjay Bisht delved into the concept of natural farming, emphasizing organic and eco-friendly methods to enhance soil fertility and crop yield. Attendees gained insights into minimizing chemical usage and promoting biodiversity, contributing to sustainable agriculture.

**2. Agricultural Apps and Technology (Dr. Aditya Lama):** Dr. Aditya Lama showcased various agricultural apps designed to assist farmers in crop management, pest control, weather forecasting, and market analysis. The session highlighted how technology can simplify farming operations, making them more efficient and profitable.

**3. Nursery Preparation (Mr. Naveen Chandra Bahuguna):** Mr. Naveen Chandra Bahuguna shared expertise on nursery preparation techniques, focusing on seed selection, soil preparation, and irrigation methods. Proper nursery management was emphasized as a fundamental step in ensuring healthy and robust crop growth.

**4. Insect Pests and Diseases Management in Cole Crops (Mr. Pradeep Kumar Verma):** Mr. Pradeep Kumar Verma discussed the identification and management of insect pests and diseases specific to cole crops. Attendees learned about integrated pest management strategies, emphasizing natural predators and organic remedies to minimize chemical interventions.

The seminar and technical sessions proved to be an enriching experience for both farmers and students. By understanding the latest agricultural technologies and their practical applications, farmers are better



equipped to enhance their yields and income. Simultaneously, students were inspired to actively engage in transferring this knowledge, ensuring a sustainable future for the agricultural sector. The event served as a stepping stone toward a more technologically advanced and ecologically conscious farming community.



**Collection of Images from Kisan Ghosti (Farmers Meet) done under Unnat Bharat Abhiyan**

**Title of the Activity: Soil Testing and Awareness Camp**

**Need of the Activity:** To make aware about the importance of soil testing to the farmers.

**Brief Description (Need/Impact/Action/Picture (if any)) :**

On 4th July 2022, Department of Agricultural Studies, a part of Quantum University, Roorkee, celebrated "Earth Day" with a unique initiative. An on-ground Soil Testing Camp was organized in one of the adopted villages associated with Quantum University. The objective was to raise awareness among farmers about the importance of soil health for sustainable agricultural development. The event aimed to educate farmers about proper soil testing techniques and highlight the significance of soil reclamation for enhanced productivity.

The Earth Day celebration was marked by an interactive Soil Testing Camp, where approximately 15-20 farmers from each village actively participated. Students from Quantum University demonstrated the correct method of soil sampling to the farmers. The collected soil samples were analyzed using Soil Testing Kits, providing valuable insights into the soil's health and composition. Dr. A.S. Bisht and Dr. A. Varma, esteemed faculty members of Quantum University, explained the importance of soil testing and soil reclamation to the farmers, emphasizing its crucial role in sustainable agricultural practices.

The primary objectives of the event were to create awareness among farmers about soil health, educate them about proper soil testing methods, and emphasize the significance of soil reclamation for sustainable agricultural development. By actively involving farmers and demonstrating the testing procedures, the event aimed to empower the agricultural community with knowledge that can enhance their agricultural practices and productivity.

The Soil Testing Camp facilitated direct engagement between students, faculty, and farmers. Students performed live soil tests in front of the farmers, providing them with practical insights. This interactive approach encouraged a healthy exchange of knowledge and allowed farmers to ask questions and seek clarifications. The event fostered a sense of community and cooperation between the agricultural experts and the local farming community.

The Earth Day celebration and Soil Testing Camp had a profound impact on the participating farmers. They gained valuable knowledge about their soil's health, enabling them to make informed decisions regarding crop cultivation and fertilization. The Department of Agricultural Studies plans to conduct similar initiatives in the future, extending their outreach to more villages, and empowering farmers with essential agricultural knowledge.

The Earth Day celebration and Soil Testing Camp at the Department of Agricultural Studies exemplified the institution's commitment to sustainable agriculture and community welfare. By organizing this educational initiative, Quantum University contributed significantly to enhancing the agricultural practices of the adopted villages. The event's success highlighted the university's dedication to fostering environmental consciousness and empowering local farmers for a more sustainable future.









Pictures from soil testing camp, done UBA farmers were educated on how to test the soil for better yields and soil health

**Title of the Activity:** Health Camp for Villagers

**Need of the Activity:** To make aware about health

**Brief Description (Need/Impact/Action/Picture (if any)) :**

On 22nd July 2022, a free health camp was organized at the Central Library, Quantum University, Roorkee, under the Unnat Bharat Abhiyan initiative. The primary objective of this camp was to provide essential healthcare services to the residents of the adopted villages, as well as to create awareness about the importance of regular health checkups.

Prior to the event, the organizing team visited the adopted villages and informed the residents about the free health camp. Through awareness campaigns, the villagers were encouraged to participate and take advantage of the health services being offered. The team emphasized the significance of regular health checkups for maintaining a healthy lifestyle.

**Activities at the Health Camp:**

1. **Health Checkup Stations:** Various health checkup stations were set up, including blood pressure measurement, blood sugar testing, eye checkup, dental checkup, and general medical consultation.
2. **Health Education Workshops:** Informative sessions were conducted by healthcare professionals to educate the participants about common health issues, preventive measures, and healthy lifestyle choices.
3. **Distribution of Healthcare Materials:** Pamphlets and brochures containing valuable health-related information were distributed among the attendees to promote health awareness.
4. **Counseling Services:** Certified counselors were available to address mental health concerns and provide counseling services to those in need.

The free health camp witnessed active participation from the residents of the adopted villages. A significant number of villagers availed themselves of the health checkup services. The event served as an opportunity for many to diagnose underlying health issues and receive timely medical advice.

The camp conducted under the Unnat Bharat Abhiyan at the Central Library, Quantum University, Roorkee, on 22nd July 2022, was a resounding success. By providing essential health services and spreading awareness, the event contributed significantly to the well-being of the villagers. Such initiatives play a crucial role in ensuring the health and vitality of rural communities, ultimately contributing to the overall development of the nation.







Few Glimpses of Health Camp inspired by the Unnat Bharat Abhiyan Health camp



**Title of the Activity: Har Ghar Tiranga Abhiyaan**

**Need of the Activity:** Encourage people to bring the Tiranga home and to hoist it to mark the 75th year of India's Independence.

**Brief Description (Need/Impact/Action/Picture (if any):**

On 14th August 2022, Quantum University, Roorkee, celebrated 75 years of Independence as part of the Azadi Ka Amrit Mahotsav initiative under the Unnat Bharat Abhiyan campaign. The university distributed National Flags in the adopted villages, emphasizing the significance of this historic occasion to the villagers.

Under the Azadi Ka Amrit Mahotsav campaign, Quantum University took the initiative to distribute National Flags in the adopted villages associated with the Unnat Bharat Abhiyan. The objective was to instill a sense of pride and patriotism among the villagers, educating them about the importance of this monumental celebration in the country's history. The event aimed to create awareness about the sacrifices made by the freedom fighters and their contributions to India's independence.

The initiative served as a platform for community engagement, allowing the university to interact directly with the villagers. Volunteers and representatives from Quantum University explained the significance of Azadi Ka Amrit Mahotsav, highlighting the journey of India's freedom struggle and the values it represents. Through these interactions, the villagers gained a deeper understanding of the historical context and the collective spirit that led to India's independence.

By distributing National Flags and educating the villagers, Quantum University promoted national unity and a shared sense of heritage. The event emphasized the importance of unity in diversity and celebrated the diverse cultural tapestry of the nation. It encouraged villagers to take pride in their country's rich history and cultural heritage, fostering a sense of belonging and patriotism.







**By distributing National Flags and educating the villagers, Quantum University promoted national unity and a shared sense of heritage**

**Title of the Activity:** Guide Village Children for their Exams

**Need of the Activity:** To improve their academic performance

**Brief Description (Need/Impact/Action/Picture (if any):**

On 29th August 2022, Quantum University, under the Unnat Bharat Abhiyan initiative, conducted a specialized program aimed at guiding village children for their exams. This program was designed to enhance their academic performance and provide valuable support to the children in their educational pursuits.

The primary purpose of the program was to improve the academic performance of village children by offering them guidance and support tailored to their specific educational needs. The initiative aimed to bridge the educational gap, empower these children with knowledge, and boost their confidence levels, ensuring they perform well in their exams. Quantum University, through this initiative, demonstrated its commitment to promoting education and empowering young minds within the adopted villages.

The Academic Guidance Program involved experienced educators and mentors from Quantum University who volunteered their time and expertise to assist village children with their studies. The program covered a wide range of subjects, offering personalized guidance, exam strategies, and clarifications of academic concepts. Interactive learning sessions, practice tests, and problem-solving activities were organized to ensure comprehensive understanding and preparation.

This initiative not only aimed to improve academic performance but also fostered a sense of community engagement. Volunteers and mentors from Quantum University actively interacted with the village children, creating a supportive learning environment. The personalized attention and guidance provided helped in building the children's confidence and motivation to excel academically.

The Academic Guidance Program made a positive impact by equipping village children with the necessary tools and knowledge to perform well in their exams. It not only enhanced their academic skills but also instilled a sense of self-belief and determination. Quantum University plans to continue such initiatives under the Unnat Bharat Abhiyan, ensuring continuous support for the educational growth of children in the adopted villages.





Glimpse into the academic training program for village children

**Title of the Activity: Anemia Awareness Program for Rural Women**

**Need of the Activity:** To create awareness about anemia among women.

**Brief Description (Need/Impact/Action/Picture (if any):**

On 10th September 2022, Quantum University, Roorkee, organized an impactful "Anemia Awareness Program" under the Unnat Bharat Abhiyan initiative. The event took place at the adopted villages, with villagers gathering at the local Purv Madhyamika Vidyalaya (School). The program aimed to raise awareness about anemia and provide essential information to prevent this health issue, particularly among women.

The Anemia Awareness Program was structured to deliver vital information through an engaging and informative medium. The highlight of the event was the use of "Nukkar Natak" (street play), a powerful and interactive form of communication. The villagers were enlightened about the importance of a healthy diet in preventing anemia, especially among women.

The primary objective of the program was to educate the villagers, particularly women, about anemia and its prevention. By emphasizing the significance of a nutritious diet, the event aimed to empower women with knowledge to make healthier dietary choices. The initiative was driven by a commitment to improving the overall health and well-being of the community, aligning with the Unnat Bharat Abhiyan's mission of rural development and healthcare awareness.

The use of "Nukkar Natak" made the awareness program interactive and engaging. The villagers actively participated in the discussion, providing an opportunity for direct interaction and knowledge exchange. By involving the community directly, Quantum University fostered a sense of ownership and responsibility among the villagers regarding their health and nutrition.

The Anemia Awareness Program left a positive impact on the villagers, equipping them with essential knowledge to combat anemia through dietary improvements. Quantum University plans to continue organizing similar awareness programs and initiatives under the Unnat Bharat Abhiyan. These efforts aim to create a lasting impact on the health and well-being of the adopted villages, promoting preventive healthcare and empowering the community with valuable information.

The Anemia Awareness Program organized by Quantum University, Roorkee, exemplified the institution's commitment to community welfare and healthcare awareness under the Unnat Bharat Abhiyan. By actively engaging with the villagers and providing practical knowledge through innovative means like "Nukkar Natak," Quantum University contributed significantly to the prevention of anemia and the promotion of overall health in the adopted villages.







Pictures from Quantum University Initiative under UBA to spread awareness around Anemia especially targeting rural women



**Title of the Activity: Plog Run (Cleanliness Drive)**

**Need of the Activity:** To create awareness about cleanliness

**Brief Description (Need/Impact/Action/Picture (if any):**

On 23rd September 2022, Quantum University, under the Unnat Bharat Abhiyan initiative, organized a "Plog Run" in the adopted villages. This event was designed to promote cleanliness and raise awareness about the harmful effects of plastic pollution. Participants engaged in a collective effort to clean the environment while emphasizing the importance of adopting eco-friendly practices.

The Plog Run organized by Quantum University was a vibrant and energetic event. Participants, including villagers and volunteers, enthusiastically ran through the designated areas, picking up litter and plastic waste. The event not only showcased the community's dedication to cleanliness but also highlighted the adverse impact of plastic on the environment and public health.

The primary objectives of the Plog Run were to instill a sense of responsibility towards cleanliness and environmental preservation among the villagers. By actively participating in the cleanup activity, the community members were encouraged to contribute to the reduction of plastic pollution. Additionally, the event aimed to educate participants about the harmful consequences of plastic usage and motivate them to adopt sustainable alternatives.

The Plog Run provided an excellent opportunity for community engagement. Villagers and volunteers worked together, fostering a sense of unity and shared responsibility. Through active participation, the event promoted a strong bond among the participants and reinforced the importance of collective efforts in maintaining a clean and sustainable environment.

The Plog Run made a significant impact by not only cleaning the immediate surroundings but also raising awareness about the detrimental effects of plastic on the environment. Participants gained valuable insights into the importance of waste management and eco-friendly practices. Quantum University plans to organize similar initiatives in the future, encouraging the adoption of cleaner habits and promoting a plastic-free environment in the adopted villages.

The Plog Run organized by Quantum University under the Unnat Bharat Abhiyan exemplified the institution's commitment to environmental consciousness and community welfare. Through this event, the university successfully encouraged villagers to actively engage in cleanliness initiatives and educated them about the detrimental effects of plastic pollution. The event's success reflects Quantum University's dedication to fostering a clean, green, and healthy environment in the adopted villages.







**Insight pictures from the Plog Run activity done under UBA**

**Title of the Activity:** Quantum Observes Red Cross Day

**Need of the Activity:** To aware the school students and villagers about First aid and COVID-19 Guidelines through street show

**Brief Description (Need/Impact/Action/Picture (if any):**

On 8th May 2023, Quantum University, Roorkee, commemorated Red Cross Day with great enthusiasm and purpose. The event was graced by esteemed personalities including Prof. Vivek Kumar, Vice Chancellor, Quantum University, Prof. Amit Dixit, Registrar, Quantum University, and Prof. Manish Sharma, Director, QST. The day was marked with speeches highlighting the importance and significance of Red Cross Day, along with awareness campaigns on first aid and COVID-19.

**Event Highlights:**

**1. Speeches by Dignitaries:** Prof. Vivek Kumar, Prof. Amit Dixit, and Prof. Manish Sharma delivered insightful speeches emphasizing the humanitarian essence of Red Cross Day. They shed light on the historical significance of the Red Cross movement and its role in alleviating human suffering during times of crisis. Their speeches inspired the audience about the importance of community service and empathy.

**2. Awareness Camp on First Aid and COVID-19:** An awareness camp was organized at the adopted villages, focusing on the crucial topics of first aid and COVID-19. Trained volunteers provided demonstrations and information on basic first aid techniques and COVID-19 preventive measures. This initiative aimed to empower the local community with life-saving skills and knowledge about the ongoing pandemic.

**3. Street Shows by Volunteers:** Volunteers from UBA (Unnat Bharat Abhiyan), NSS (National Service Scheme), and Palah performed engaging street shows. These shows were dedicated to educating the audience about first aid practices and raising awareness about COVID-19. Through creative presentations, the volunteers effectively communicated essential information to the attendees.

**4. Mask Distribution:** In response to the ongoing COVID-19 situation, 200 masks were distributed among the students of the local school. This gesture not only contributed to the safety of the students but also promoted the importance of wearing masks as a preventive measure against the virus.

**5. Audience Participation and Appreciation:** The event saw active participation from students, faculties, staff, and villagers. The attendees appreciated the informative speeches, interactive sessions, and creative street shows. The program successfully engaged the audience and left a lasting impact on everyone present.

The Red Cross Day celebration at Quantum University, Roorkee, served as a platform to promote humanitarian values, community service, and awareness about crucial health-related topics. The event not only educated the attendees but also encouraged them to actively participate in spreading knowledge and empathy within their communities. Such initiatives play a vital role in fostering a sense of social responsibility and unity among individuals, contributing to the betterment of society as a whole.







Insight pictures of Red Cross Day celebration and activities done under the UBA format

  
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**\*\*\*End of Report\*\*\***