



AMITY UNIVERSITY MAHARASHTRA

Established vide Maharashtra Act No.13 of 2014, of Government of Maharashtra, and recognized under Section 2 (f) of UGC Act 1956.

REPORT ON SDG15



Year 2023

Mumbai - Pune Expressway Bhatan, Somathne, Panvel,
Mumbai, Maharashtra 410206



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Contents

“One Earth: An Integrated Approach towards Climate Change Adaptations and Mitigation using Geo-spatial Technology”	3
Rural Visit to Palghar District 2023.....	3



“One Earth: An Integrated Approach towards Climate Change Adaptations and Mitigation using Geo-spatial Technology”

The objective of these webinars is to discuss and critically analyse the climate change crisis and the consequences that our mother earth has been facing these years in terms of global warming, impact of water resources, emission of GHGs, adverse impact on agriculture etc. and the application of Geo -spatial technology i.e Geographic Information System (GIS) and Remote Sensing (RS) as a step towards the climate change adaptations. Expert Name: Dr. Sanjay Narayan Patil Organization: School of Environmental and Earth Sciences, North Maharashtra University. Speaker is an expert in the Earth and Environmental field with very high quality research. Climate change crisis and the consequences that our mother earth has been facing these years in terms of global warming, impact of water resources, emission of GHGs, adverse impact on agriculture. Application of Geo -spatial technology i.e Geographic Information System (GIS) and Remote Sensing (RS) as a step towards the climate change adaptations. Application of GIS and RS in environmental impact assessment. Participants received an overview of the climate change crisis and its impacts. Participants got to know about the applications of GIS and RS in different environmental studies. Participants got an overview of the advantages of GIS and RS in assessing the environmental impact.

Rural Visit to Palghar District 2023

Social work students' rural field visit had been organised to AROHAN, a field action project of college of Nirmala Niketan, Mokhada and BAIF Organisation in Jawhar and Mokhada talukas in Palghar district. The students team visited their respective field area/ villages from 18th April 2023 to 20th April 2023 as a part of rural visit. The objective of this visit is to understand issues of rural/ tribal communities and get an exposure in this field. AROHAN and BAIF Organisations work on the issues of rural development, livelihood, employment generation, soil and water conservation and various tribal issues. We also witnessed the river from which water is distributed among the farms for irrigation. The solar power helps the pump to run and gravity based water distribution helps the system to sustainable. For no electric use of water distribution at first the pump pull the



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water to a hilland from where the water is distributed equally to all the farm which is decided no pump is used for water distribution it happens through gravity. Trip irrigation is used for water the crops.

In the farms we saw crops like Spring onion, Jasmine, Cashew, and Mango tree.

We got to know how pond is dug 2 by 2 size for storage of water in monsoon so that it can behelped to irrigate the land in other season when water is not ample.

Farm visit was over we were taken to a village to show how the they utilized the same river for drinking water as well as for providing water for domestic use. That village didn't had any water to drink before the intervention. The tank which was available for the storage of water had 4 taps each side which sums up to 8 taps, 4 taps for drinking water and 4 taps for domestic water. Drinking water was purified by the purifier which was runned on solar power. we also visited school which taught adolcents girls about nurtions as well as womens and how to keep their diet nurtrinets and protein rich from local food itself.

we moved futher in the village where a meeting was held under the tree with the member of pada samiti. Pada samiti also know as hamlet its an small group of a small settlement, generally one smaller than a village. People from the pada samiti shared their experiences on how they developed the school for their village children till 5 std. They held meeting in regular interval after the inversion to discuss about the progress of the school. School also opted for visual teaching in which the school is begin panted in such a way which will give lesson to kids through the paints on the walls, after the meeting we moved forward to see the check dam. After these visit was done we were taken to see the flour grinding machines which operated on solar and also the oil extraction and oil purification machine. When this is visit was over we taken to the community canteen where it severed and displayed local food it was the canteen of a Self help group.



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