

# **Progress report of training**

## **Title of the training:**

Climate Change Adaptation and Mitigation Training

## **Background:**

Climate change refers to a long-term changes in temperature, precipitation patterns, sea levels, and other climatic factors. The change mainly focuses on the activities of human such as greenhouse gas emissions from fossil fuel combustion, deforestation, and industrial processes. These changes have impacts on ecosystems, weather patterns, water resources, agriculture, human health, and socio-economic systems. Climate change mitigation strategies aim to reduce greenhouse gas emissions through different measures. Either switching to renewable energy sources, improving energy efficiency, sustainable land use, or enhancing carbon sequestration helps to mitigate climate change at certain level. Adaptation strategies focus on building resilience to climate impacts, such as implementing early warning systems, improving infrastructure, diversifying livelihoods, and enhancing ecosystem-based approaches. It also empathize on the renewable energy technologies (solar, wind, hydro, biomass and geothermal energy). Solid waste management techniques like reducing, reusing, recycling, composting, and converting waste to energy also helps in mitigating some of the climate change effects. Climate resilience planning needs to be incorporated into development planning, infrastructure design, disaster risk reduction, and community empowerment. Case studies are strong evidences to understand overall linkages of climate change to global warming, human induced disasters, energy uses, sustainable waste management, climate-smart agriculture practices, and green infrastructure projects etc.

## **Objectives of the training:**

1. To understand the causes and effects of climate change
2. To explore the climate change mitigation and adaptation strategies
3. To know the link of renewable energy technologies with climate change
4. To discuss the waste management techniques

## **Expected outcome:**

The participants will able to achieve followings after the training:

1. Understand about the climate change, its causes, effects and impacts
2. Can practice available mitigation and adaptation strategies
3. Adopt energy efficient mechanisms and technologies
4. Develop demonstrative waste management site in the campus

**Detail of the Schedule:**

The training program was scheduled from May 11-13, 2024. The detail of the course content is as follows:

1. Understanding the Climate Change
2. Climate Change Mitigation/Adaptation Strategies
3. Relationship of CC with Renewable Energy Technologies and Waste Management Techniques
4. Resilient Mechanisms
5. Case Studies (lessons learned in climate change mitigation and waste energy management)
6. Workshop with participant's involvement

**Conclusion:**

The workshop on climate change adaptation and mitigation training organized from May 11-13, 2024 helped the participants (campus teachers, CMC, students, parents and other stakeholders) understand the issues of climate change, its sources and effects. The participants actively engaged in discussion on the tools and techniques applicable for the mitigation of climate change. The participants agree to minimize the use of fossil fuels and practice to minimize waste production and management of waste.

**Expert/Resource person:**

Dr. Bed Mani Dahal, Professor, Department of Environmental Science and Engineering,  
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**List of participants and photographs**

Please see on the separate sheet