

# The Socio-Economic and Environmental Challenges of Climate Change: Exploring Adaptive Responses and Mitigation Measures

Prem Lata<sup>1</sup> and Dr. Narender Kumar<sup>2</sup>

Research Scholar, Department of Sociology<sup>1</sup>

Research Guide, Department of Sociology<sup>2</sup>

NIILM University, Kaithal, Haryana, India

**Abstract:** Long-term climate change affects tropical and pollan weather. This worldwide danger affects several industries. This review analysis conceptually examines how climate unpredictability is threatening global sector sustainability. Agriculture is subject to permanent weather changes. It is changing global purchasing patterns, particularly in agricultural economies and productivity. Climate change alters ecosystem architecture and increases biodiversity loss by altering optimal temperature ranges. Climate change raises food, water, and vector-borne illness risks. Climate change accelerates antimicrobial resistance owing to pathogenic infections. Climate change impacts forests and tourism. This study explores worldwide socio-economic and environmental climate change mitigation and adaptation measures and their economic effects. The study found that knotted resources and legislation designed to promote progressive climate policy need government engagement for long-term growth. Global collaboration is needed to mitigate climate change's severe repercussions and save the planet.

**Keywords:** Climate change; Environment; Economy; Mitigation; Adaptation; Sustainability