

PROCEEDINGS OF

One-Day International Conference on Interdisciplinary Approaches to Literature, Environment and Climate Change

(IALECC-2025)

August 26, 2025

Organised by



Post Graduate Department of English and Indian
Knowledge System Cell

**SRI GURU TEG BAHADUR KHALSA COLLEGE,
SRI ANANDPUR SAHIB**

An Autonomous (Grant-in-aid) College, Affiliated to Punjabi
University, NAAC accredited with 'A' Grade

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BOOK OF ABSTRACTS

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INTERDISCIPLINARY APPROACHES TO ENVIRONMENTAL ISSUES: INTEGRATING SCIENCE, POLICY, AND COMMUNITY ACTION FOR SUSTAINABLE SOLUTIONS

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Abstract

The escalating complexity and urgency of environmental challenges such as climate change, biodiversity loss, pollution, and unsustainable resource use demand innovative and holistic responses that transcend traditional disciplinary boundaries. This paper explores the role and effectiveness of interdisciplinary approaches in addressing contemporary environmental issues. By integrating insights from environmental science, ecology, sociology, economics, law, public health, and technology, interdisciplinary frameworks foster a comprehensive understanding of environmental systems and the socio-political dynamics that influence them. The presentation highlights successful case studies where collaborative strategies combining scientific research, policy-making, and grassroots participation have led to sustainable environmental outcomes. Key areas discussed include climate-resilient agriculture, circular economy models, nature-based solutions for urban planning, and community-led conservation initiatives. Emphasis is placed on participatory methods, transdisciplinary research, and knowledge co-production as essential tools in bridging the gap between academic inquiry and real-world environmental action. The paper advocates for rethinking education, research, and governance structures to support interdisciplinary synergy. In doing so, it underscores the potential of such approaches to not only address current environmental issues but also to anticipate and mitigate future crises through proactive and inclusive strategies.

Keywords: Interdisciplinary research, Environmental challenges, Sustainability, policy integration, Participatory approaches, Climate action.