

Systematic Review, Meta-analysis, Bibliometrics, and Responsible AI in Scientific Research

The Institute of Development Studies Kolkata (IDSK), the Indian Statistical Institute (ISI), Kolkata, and Presidency University, Kolkata jointly organized a seven-day Workshop cum Faculty Development Programme on *Systematic Review, Meta-analysis, Bibliometrics, and Responsible AI in Scientific Research* from 16-22 February 2026. The programme was designed to strengthen the methodological competencies of early-career researchers in systematic review, meta-analysis, and bibliometric techniques, with a focus on open-source analytical environments. It integrated training in scientific writing, research integrity, and responsible AI to support transparent and high-quality scholarly communication. Participants received hands-on training in data management, analysis, and visualisation. The curriculum introduced structured and reproducible review methodologies aligned with PRISMA standards, including protocol development, advanced search strategies, data extraction, critical appraisal, effect size estimation, and research mapping. Training incorporated R- and Python-based workflows, VOS viewer, Biblioshiny, AS Review, and other open platforms to promote openness, reproducibility, and robust research practices.

The workshop was intended for the faculty members, doctoral researchers, and postgraduate students including those preparing for doctoral enrolment, as well as independent researchers across STEM fields, medicine and public health, social sciences, business studies, and interdisciplinary domains. Librarians, information professionals, data stewards, and practitioners engaged in evidence synthesis, research evaluation, or research support services were also encouraged to apply.