

Course - IV (b)

Scholarly Communication and Research Evaluation

Course Title & Code	Credits	Credit Distribution			Teaching Hours	Internal Marks	Exam Marks	Total Marks
		Lecture	Tutorial	Practical/ Practice				
Course-IV(b): Scholarly Communication and Research Evaluation	4	3	1	0	60 Hours	25	75	100

Course Objectives

Upon completion, scholars will master the scholarly communication lifecycle, including digital publishing and diverse peer review models. They will gain expertise in Open Science principles, OA models, and copyright. Additionally, they will apply responsible metrics (impact factors, h-index) and altmetrics to enhance research visibility and impact evaluation.

Unit-1: Evolution of Scholarly Communication (15 Hours)

- ☞ Scholarly communication lifecycle: creation, evaluation, dissemination and preservation
- ☞ Evolution from print to digital and platform-based publishing
- ☞ Role of publishers, scholarly societies and academic institutions
- ☞ Peer review models: single-blind, double-blind, open and post-publication review
- ☞ Emergence of preprints and early research sharing

Unit-2: Open Science and Open Access Publishing (15 Hours)

- ☞ Open Science principles and components
- ☞ Open Access models: Gold, Green, Hybrid and Diamond

- ☞ Transformative agreements and institutional OA policies
- ☞ Copyright, licensing and author rights (Creative Commons overview)
- ☞ Research transparency, reproducibility and open research practices

Unit-3: Research Evaluation and Responsible Metrics

(15 Hours)

- ☞ Purpose and evolution of research evaluation
- ☞ Journal-level metrics: Impact Factor, SJR, SNIP - interpretation and limitations
- ☞ Author-and article-level metrics: citations, h-index, g-index
- ☞ Research assessment exercises: national and international approaches
- ☞ Responsible use of metrics, misuse of indicators and qualitative assessment

Unit-4: Research Dissemination, Visibility and Altmetrics

(15 Hours)

- ☞ Research dissemination strategies and scholarly visibility
- ☞ Preprints, postprints and data publishing
- ☞ Institutional repositories and academic social networks
- ☞ Altmetrics: concepts, tools and interpretation
- ☞ Role of social media and science communication in research impact

Essential Readings

- ☞ ASSOCIATION OF COLLEGE AND RESEARCH LIBRARIES. Scholarly Communication Toolkit: Scholarly Communication Overview, Accessed on 12/05/2026, <https://acrl.libguides.com/scholcomm/toolkit>
- ☞ CRONIN (B) and SUGIMOTO (CR), Ed. Scholarly metrics under the microscope: from citation analysis to academic auditing. Medford, Information Today. 2015.
- ☞ DAS, (Anup Kumar). Scholarly Communications , Accessed on 12/05/2026, <https://unesdoc.unesco.org/ark:/48223/pf0000231938>
- ☞ EUROPEAN COMMISSION. Next-generation metrics: Responsible metrics and evaluation for open science: Report of the European Commission Expert Group on Altmetrics, <https://>

eprints.whiterose.ac.uk/id/eprint/113919/1/Next_Generation_Metrics.pdf Matthew B. Hoy and Tara J. Brigham, Column Eds.
An introduction to

Suggested Readings

- ☞ BORGMAN (CL). Scholarship in the digital age: information, infrastructure, and the internet. Cambridge, MIT Press. 2007.
- ☞ DE BELLIS (N). Bibliometrics and citation analysis: from the Science Citation Index to cybermetrics. Lanham, Scarecrow Press. 2009.
- ☞ MA (L). The scholarly communication handbook: from research dissemination to societal impact. London, Facet Publishing. 2023.
- ☞ MOED (HF). Citation analysis in research evaluation. Dordrecht, Springer. 2005.
- ☞ SUBER (P). Open access. Cambridge, MIT Press. 2012.
- ☞ TATTERSALL (A), Ed. Altmetrics: a practical guide for librarians, researchers and publishers. London, Facet Publishing. 2016.