

University of Kalyani

Department of Library and Information science

Syllabus

**Research Entrance Test
(RET)
in
Library and Information Science**

from

2023-2024 session onward

(Approved in the meeting of the DRC meeting held on 15.09.2023)

Guidelines

The section 5 of Kalyani University (Minimum Standards and Procedure for Award of Ph.D. Degree) Regulations, 2022, and subsections under it (mainly sub-section 5.5) have directed that the RET (Research Entrance Test) shall have two parts:

- Written Test [50 marks]:
 - Marks distribution: 25 Marks on Research Methodology + 25 Marks on Library & Information Science;
 - Pattern of questions: preferably multiple choice questions as considered fit by the respective DRC;
 - Qualifying marks of the written part of the RET shall be fifty per cent (50%) of the total marks of the written test. A relaxation of 5% marks (from 50% to 45%) shall be allowed for the candidates belonging to SC/ST/OBC (non-creamy layers)/Differently-Abled category/EWS;
 - Fifty per cent (50%) of the syllabus of the RET shall consist of research methodology and fifty per cent (50%) shall be subject specific.

- Interview/Viva-Voce) [50 marks]:
 - The interview/ viva voce shall be organized in the Department through institutional notification when the candidates shall be required to discuss their research interest/area/ research methodology through a presentation before the DRC (including academic marks and research publication);
 - The evaluation will be made on the basis of total 50 marks, allocated as follows- PG result - 10 Marks, Publications - 5 marks, Research experience - 5 marks, Domain knowledge - 15 marks, and Interview performance - 15 marks;
 - The final marks for empaneled of students/ applicants shall be determined by the marks obtained in the interview part of RET only;
 - Qualifying marks in the interview/ viva-voce for selection of Ph.D Scholars shall be fifty per cent (50%) of the total marks of the interview/ viva-voce part.

The section 8.3.2 of Kalyani University (Minimum Standards and Procedure for Award of Ph.D. Degree) Regulations, 2022 directs that the syllabus for RET and Ph.D. Course-work shall be framed by the DRC and shall send to the office of the Secretary, Post Graduate Faculty Councils, for approval of the Hon'ble Vice-Chancellor.

In view of the above directions, **the syllabus for written part of the RET in Library and Information Science** is given in the next page.

Research Methodology [25 marks]

General Research Methodology

Research Methodology - Defining the Research Problem, Research Design, Methods of Data Collection.

Research data management - Primary data collection, Questionnaire construction, Secondary data collection, Measurement of Attitudes – Scaling Techniques, Basic Statistics in Research, Processing and Analysis of Data, Summarizing Data – Histogram, Stem-Leaf, Box-Whisker, Central Tendency, Dispersion

Measuring data – Skewness and Kurtosis, Correlation & Regression Analysis, Sampling Design, Estimation and Hypothesis Testing, Procedure for Hypothesis Testing, Parametric Test, Non-Parametric Test.

Informetrics indicators - Scientometrics, Informetrics, Bibliometrics, Webometrics, Altmetrics, Research Impact.

Search tools and services – Search engines, LIS specific bibliographic and full-text databases, open access resources, tools and services, Reference management and citation networks.

Research Ethics

Ethical aspects of research - Concept of Academic Integrity: Integrity Concepts, Academic integrity; Scientific Misconduct and Research Fraud (Falsification, Fabrication and Plagiarism: FFP); Concept of retraction; Academic honour codes.

Publication ethics - Ethics through best practices: COPE, WAME;

Publication & Research Misconduct: Concept of Research Misconduct, Concept of Plagiarism, Nature of Plagiarism, UGC Guidelines on Levels of Plagiarism.

Plagiarism : AI vs AI; Plagiarism Detection Software-Selection of Appropriate Software, Violation of Publication Ethics.

ICT tools in Research

Bibliographic databases – Commercial databases and Open Access Databases (with special features for research support services)

Digital access brokers – Use of research support services from discovery to dissemination

Open access to research – as consumer (OA pathfinder services) and as contributor (Gold/Gree OA, OA repositories, OA journals, Data repository)

Reference and citation management – tools, services and networks.

Subject-specific components [25 marks]

Areas

Area I: Information Sources, Systems and Services	Area VI: Information Storage and Retrieval
Area II: Management of Information Institutions and Systems	Area VII: User Studies
Area III: Resource Description	Area VIII: Automated and Digital Library System
Area IV: Resource Organization	Area IX: Web Technologies
Area V: Bibliometrics, Informetrics and Scientometrics	Area X: Data Science, Library Carpentry and AI/ML applications