

LIS14 401CR RESEARCH METHODS AND TOOLS

4 Credits

Credit Pattern

Lecture	Tutorial	Practical	Total
3	1	0	4

Objectives

- To acquaint with foundation of research, various methods, planning, designing, reporting in the field of Library and Information Science.

Unit I

- 1.1 Research: Foundations, Need & Ethics with special reference to online ethics.
- 1.2 Research: Types, Steps and Barriers.
- 1.3 Current trends in LIS Research.

Unit II

- 2.1 Research Design/Research Proposal: Structure and preparation of a model synopsis.
- 2.2 Hypothesis: formulation, types and tests.
- 2.3 Citation and Reference Styles : General, Footnote, MLA, Chicago, Turabian with Special emphasis on APA Style.
 - 2.4.1 Online Citation and Reference Management Tools (World Cat, Cross RefWorks, EndNote, Zotero, CiteULike etc.)

Unit III

- 3.1 Review of Literature (Tools and Techniques) Techniques of Surveying Literature
 - Zooming
 - Finding Intersections
 - Patch Working
 - Funnelling
- 3.2 Research Methods:

- 3.1.1: Historical: Definition, Characteristics and Stages/Procedures
- 3.1.2: Descriptive: Definition, Characteristics and Stages/procedures.
(Survey, Case Study, Development Studies & Content Analysis)
- 3.1.3: Experimental: Definition, Characteristics, Steps/Procedures, Spiral of Scientific Method
- 3.1.4: Applications of Historical, Descriptive and Experimental Research Methods to LIS

Unit IV

- 4.1 Data Analysis Software and Applications: SPSS, Minitab and MS-Excel; Overview
- 4.2 Research Report: Form, Structure, guidelines and standards.
- 4.3 Research Communities: With Special Reference to Virtual Research Communities (VRC's)

Suggested Readings

- Arora, P.N., & Arora, S. (2000). *C A Foundation course statistics*. (4th Rev.ed.)New Delhi: S.Chand.
- Allan, B. (2010). *Supporting Research Students*. London:Facet
- Baker, L. (2006). *Research methods*. U.S.A: John Hopkins University Press.
- Barry, C.A.(1997). Information Skills for an Electronic World: Training Doctoral Research Students. *Journal of Information Science*, 23 (3), 225-238.
- Busha, C.H., &Harter, S. H. (1988).*Research Methods in librarianship: techniques and interpretation*. New York: Academic Press.
- Chiang, K.H. (2003). Learning experiences of doctoral students in U.K Universities. *International Journal of Sociology and Social Policy*, 23 (1/2), 4-32.
- Croxtan, F. E. (1969). *Applied general statistics*. (3rd ed). New Delhi: Prentice Hall.
- Denzin, N. K., & Lincoln, Y. S. (1994). *Handbook of qualitative research*. Thousand Oaks: Sage Publications.
- Elhance, D.N. (2005). *Fundamentals of statistics*. Allhabad: Kitab Mahal.
- Frankfort, C., & Nachmias, D. (1999). *Research methods in social sciences*. (6th ed. New York: Worth Publishers.

- Goode, W. J., & Hatt, P. K. (1952). *Methods in social research*. New York, McGraw-Hill.
- Gosh, B.N. (1984). *Scientific method and social research* (2nd ed.). Delhi: Sterling.
- Goswami, P. R. (1996). *Statistical information system and libraries*. New Delhi: Anmol Pub.
- Gupta, S.C., & Kapoor, V.K. (2001). *Fundamentals of mathematical statistics*. New Delhi: Sultan Chand.
- James, T. Mc. C. (2005). *First course in statistics*. (9th ed.). New Delhi: Prentice Hall.
- Khanna, J.K. (1997). *Library Compendium*. New Delhi: Beacon Books.
- Kumar, K. (1999). *Research Methods in Library and Information Science*. (2nd Rev. ed.). New Delhi: Har-Anand Publications.
- Powell, R..R., & Connaway, L. S. (2004). *Basic research methods for librarians*. West Port, Conn : Libraries Unlimited
- Sharma, R. D. (1988). *Research methods in social sciences*. New Delhi: National Book Organization.
- Sharma, P. S. K. (1996). *Librarian's knowledge of knowledge (including research methodology)*. New Delhi: Ess Ess.
- Simpson, I.S. (1988). *Basic statistics for librarians*. (3rd Rev ed.). U.K: Library Association.
- Singh, S.P. (2002). *Research methods in social sciences: a manual for designing questionnaire*. New Delhi: Kanishka Publishers.
- Somekh, B., & Lewin, C. (2005). *Research methods in the social sciences*. London: Sage Publications.
- Sproull, N .L. (1988). *Handbook of research methods: a guide for practioners and students in social sciences*. Metuchen, N.J: Scarecrow Press.
- Trochim, W. M.K. (2003). *Research Methods* (2nd ed.). New Delhi: Biztantra.