Name of the Course	**Online Information Retrieval**
Course Code	OIR-303
Credit Hours	3
Objectives	1. To understand the environment of information retrieval. 2. To develop an understanding of the principal components of information retrieval systems, Web search engines and online databases. 3. To develop ability to improved retrieval effectiveness using Boolean logic, proximity searching, truncation and other tools. 4. To evaluate the emerging information retrieval practices in library services and on the Web.
Contents	**Theoretical** **Unit-I Introduction to information retrieval** 1.1 Definition and concepts 1.2 Major components/elements of information retrieval 1.3 Database, search mechanism, language, interface **Unit-II Language in information representation and retrieval** 2.1 Natural language 2.2Controlled vocabulary-Thesauri, subject heading lists, classification schemes 2.3 Natural language vs-controlled vocabulary indexing **Unit-III Retrieval techniques and query representation** 3.1 Basic information searching techniques 3.2 Advanced information searching techniques **Unit-IV Information retrieval models** 4.1 Matching model 4.2 Boolean logic model 4.3 Vector space model 4.4 Probability model **Unit-V Information retrieval systems** 5.1 Online systems 5.2 CD-ROM systems 5.3 OPACs 5.4 Web search engines 5.5 Evaluation of information retrieval systems **Practical** Searching techniques in different search engines and online databases (HEC National Digital Library). Indexing.
Teaching & Learning Strategies	A combination of lecturing, class participation, and discussions will be used to conduct the course. Students will be expected to read extensively ahead of each class session and actively participate in discussions.
Assignments	Practical Assignment (10 marks), presentation (5 marks) and quiz (10 marks)
Recommended Reading	Brown, C. C., & Bell, S. S. (2018). *Librarian's guide to online searching: Cultivating database skills for research and instruction* (5th ed.).

Material	Santa Barbra, California: Libraries Unlimited. Chowdhry, G. G. (2010). *Introduction to modern information retrieval* (3rd ed.). Chicago: Neal Schuman Pub. Chu, H. (2010). *Information representation and retrieval in the digital age*. Medford, New Jersey: Information Today, Inc. Knott, C. (2016). *Find the information you need: Resources and techniques for making decisions, solving problems, and answering questions.* Lanham, Maryland: Littlefield Publishing Group, Inc. Losee, R. M. (2019). *Predicting information retrieval performance (Synthesis lectures on information concepts, retrieval, and services).* San Rafael, CA: Morgan & Claypoll Publishers. Manning, C. D., Raghavan, P., & Schutze, H. (2008). *Introduction to information retrieval.* Cambridge: Cambridge University Press.

Assessment and Examinations:

Sr.#	Elements	Weightage	Details
1	Midterm Assessment	35%	Written test (at the mid-point of the semester)
2	Formative Assessment	25%	Assignment, presentation and quiz
3	Final Assessment	40%	Written test (at the end of the semester)