**M.sc. (speech-Language Pathology) CBCS Scheme- 2 Years Programme**

**Paper Code: SLP 2.6 – OE: Information Management in Speech, Language and Hearing**

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| **Existing** | **Proposed** |
| **OBJECTIVES**After completion of the course, the student will be able to:* Utilize Speech & Hearing Related Information Resources
* Know the Techniques of Information Literacy
* Know the Legal and Ethical Issues in Using Information
* Explain Scholarly Metrics, Tools and Techniques
* Critically Evaluate Information Resources and Quality Research Reports
 | **OBJECTIVES**After completion of the course, the student will be able to:* Critically evaluate and effectively utilize information resources on communication disorders
* Develop successful search strategies and retrieve relevant information
* Aware of the legal and ethical issues in using scholarly information
* Know the methods and resources for achieving research visibility
* Explain scholarly metrics, tools and techniques
* Organize citations and references using open source software
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| **Unit 1: Information Resources in Speech, Language and Hearing (15 hrs)**1.1 Overview of Traditional Information Resources Pertaining to Speech, Language and Hearing * Primary
* Secondary
* Tertiary

1.2 Types and Characteristics of Electronic Information Sources* E-Books
* E-Journals
* Online Digital Research Repository
* Subject Gateways and Portals
* Bibliographic and Full Text Databases

1.3 Evaluation of Information Resources Using Various Criteria- * Timeliness
* Authenticity
* Reliability
 | **Unit 1: Information Resources in Speech, Language and Hearing (15 hrs)*** 1. Classification of Information Resources
* Primary Vs. Secondary
* Scholarly Vs. Popular
* Print Vs. Electronic
	1. Major types of e-resources and their characteristic features
* E-books
* E-journals
* Digital research repositories
* Bibliographic and full-text databases
* Open educational resources
	1. Evaluation of Information Resources
* Criteria for evaluating Internet resources
* Criteria for evaluating Scholarly journals
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| **Unit 2: Information Search Strategies and Techniques** (15 hrs)* 1. Basic Searching and Advanced Searching Techniques
	2. Search Strategy
* Search formulation
* Search statement
	1. Search techniques
* Boolean Logic
* Truncation
* Weighted term logic
	1. Search tools
* Subject Indices
* Search Directories
* General Search Engines
* Meta Search Engines
	1. Vocabulary Control tool –Thesaurus
 | **Unit 2: Literature Searching** (15 hrs)2.1 Search Strategy* Selection of topic
* Identification of main concepts / keywords
* Formulation of search statement

2.2 Search Technique* Boolean logic
* Wild card and truncation
* Proximity searching
* Phrase searching
* Basic and advanced searching
* Database search filters
* Thesaurus

 2.3 Search tools* + Web search engines and directories
	+ General web searching and Deep web searching
	+ General databases: Google Scholar, Indcat, WorldCat, Journal databases, Web of Science, Scopus
	+ Specialized databases: PubMed, COMDISDOME, LLBA, ERIC

 2.4 Literature Alerts* Topic alerts
* Journal TOC
* Citation alerts
* RSS feeds
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| **Unit 3: Information Communication and management** (15 hrs)* 1. Basics of Academic Writing
	2. Introduction to Style Guides
* APA Manual
* Chicago Manual
* MLA Style Guide
	1. Scientific Publication Life Cycle
	2. Bibliographic Management using software
* Zotero
* Mendeley
	1. Creation and Sharing of Information
* Need for sharing research information
* Creation and sharing of information using Social Media tools such as blogs and wikis
* Author Identifiers: Open Researcher and Contributor ID (ORCID),Researcher ID
	1. Keeping Current with Information
* RSS Feeds
* E-Alert Service
* Digital Object Identifier (DOI)
 | **Unit 3: Research Visibility and Impact** (15 hrs)* 1. Sharing Research
* Publishing in scholarly journals
* Benefits of sharing research and increasing research visibility
* Methods to develop online presence
* Author Identifiers and Profiles: ORCID, Researcher Id, Scopus Author Identifier, Google Scholar Profile
* Role of Social Media Networks in Research Visibility: Twitter, Face book, LinkedIn
* Role of Academic Social Networks: Research Gate, Academia, Mendeley , KUDOS
* Search Engine Optimization
	1. Open Access
* Meaning, purpose and benefits
* Types of open access
* Open access models
* Examples: Open DOAR, DOAJ, DOAB, CORE, NDL

 of India, eShodhganga3.3. Measuring Research Impact* + Need and purpose
	+ Types: Journal Impact, Author Impact, Article Impact
	+ Metrics: JCR Impact Factor, Scopus CiteScore, Google Scholar Metrics, SJR, SNIP, Eigen Factor, Altmetrics
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| **Unit 4: Measuring Scientific Productivity** (15 hrs)* 1. Tools and Techniquesfor **Measuring Scientific Productivity**
* Impact Factor
* Scimago Journal Ranking (SJR)
* Source Normalized Impact per Paper (SNIP)
* h-index
* Immediacy index
	1. Citation Databases
* Web of Science
* Google Scholar
* Scopus
	1. Ethical and Legal Issues in Publication
* Concept of Academic Integrity
* Plagiarism – Basics, Tools for plagiarism Checking
* Basics of Intellectual Property Right
* Copyright Laws
	1. Research Ethics- International Guidelines and Standards
 | **Unit 4: Ethical and Legal Issues in Scholarly Publishing** (15 hrs)41. Academic Integrity* + - Definition and Purpose
		- Core Values of Academic Integrity
		- Academic Misconduct
		- Understanding and avoiding plagiarism

4.2 Citation and Referencing* Meaning and Importance
* What to cite?
* Citation Styles: APA, MLA, Chicago
* In- text Citation and Reference list preparation according to APA 7th Ed.
* Software tools for Reference Management: Zotero, Mendeley, EndNote

4.3 Copyright * Copyright Basics
* Indian Copyright laws
* Fair Use
* Creative Commons Licenses

4.4 Publication Ethics * Authorship disputes
* Conflict of Interest
* Submission Issues
* Publication Misconducts
* Guidelines and Standards: COPE, DORA, UGC
* International Committee of Medical Journal Editors
* Enhancing the QUAlity and Transparency Of health Research Network
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| **References****Unit1**Evaluating Research in Academic Journals: A Practical Guide to Realistic Evaluation7th Edition, Fred Pyrczak, Maria Tcherni-Buzzeo, Routldge, USA, 2018**Unit 2**University Libraries. (2015). Choosing and usingsources: A guide to academic research. USA: Ohio State University. Retrieved from https://ohiostate.pressbooks.pub/choosingsources/Information Retrieval: Implementing and Evaluating Search Engines. //by [Stefan Büttcher](https://www.amazon.in/Stefan-B%25C3%25BCttcher/e/B003VOMFKU?ref=sr_ntt_srch_lnk_10&qid=1575270481&sr=1-10), Charles L. A. Clarke, et al.2016,MIT Press, USA[Information Storage and Retrieval Systems: Theory and Implementation (The Information Retrieval Series)](https://www.amazon.in/Information-Storage-Retrieval-Systems-Implementation/dp/1475783396/ref%3Dsr_1_7?crid=3VH5Z2KZKAOCW&keywords=information+retrieval&qid=1575270481&s=books&sprefix=information+retieva%2Cstripbooks%2C293&sr=1-7)by Gerald J. Kowalski and Mark T. Maybury | 3 October 2013, Springer1. Ahuja, V.K. (2010). Law Related to Intellectual Property Rights:Lexis Nexis.
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