**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 |
| **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 |
| **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 |
| **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, eShodhganga  3.3. 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 |
| **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 |
| **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=sr_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, Springer   1. Ahuja, V.K. (2010). Law Related to Intellectual Property Rights:Lexis Nexis. 2. Croft, Bruce., Metzler, Donald., Strohman, Trevor.(2009). Search Engines: Information Retrieval in Practice. Pearson 3. Gonzalez-Brambila, Claudia(2011). Exploring Academic Scientific Productivity. VDM Verlag. 4. Hersh, W. (2010). Information Retrieval: A Health and Biomedical Perspective (Health Informatics. New York : Springer. 5. Huber, J. T., &Swogger, S. (2014). Introduction to Reference Sources in the Health Sciences, Sixth Edition (Medical Library Association Guides). Chicago: Amer Library Assn Editions. 6. Notess, Greg R. (2006).Teaching Web Search Skills: Techniques and Strategies of Top Trainers. Information Today, Inc. 7. American Psychological Association. (2015).Publication Manual of the American Psychological Association, Sixth Edition. 8. Teaching Web Search Skills: Techniques and Strategies of Top Trainers eBook: Greg R. Notess: (2015). 9. Thompson, Laurie L., Tobia, Rajia., Higa, Mori Lou., Carrigan, Esther. (2011). The Medical Library Association's Master Guide to Authoritative Information Resources in the Health Sciences (Medical Library Association Guides) New York : Neal-Schuman Publishers, Inc. | |
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