

LIS14304EA4

HEALTH SCIENCE INFORMATION SYSTEM

4 Credits

Credit Pattern

Lecture	Tutorial	Practical	Total
3	1	0	4

Objectives

- To understand development of Health Sciences resources and information systems useful to various stakeholders in accessing information.
- To sensitize in planning and designing of local/national information systems pertaining to various health Programmes.

Unit I

1.1 Health Sciences: Concept, Scope and Development

1.2 Health Information organizations: National and International:

1.2.1 Indian council of Medical research (ICMR)

1.2.2 Medical council of India (MIC)

1.2.3 Tata memorial centre (TMC)

1.2.4 U.K Council of Health Informatics professions

1.2.5 Council on Health Research for Development (COHRED, Switzerland).

1.3 Identification of some Prominent Health Information organizations.

Unit II

2.1 Health Information Resources: A brief overview of traditional and modern resources Information Resources on Web: Online Journals, Online Books, ETDs, Databases, Online proceedings etc.

2.2 Information Vocabulary Control Tools: Mesh, HIDDEL (by MEDCIRCLE) and Meta thesaurus (by NLM).

2.3 Information Needs and Information Seeking Behavior of Health Science Professionals: An Overview.

2.4 Identification of e-Health resources.

2.5 Working with online vocabulary control tools.

Unit III

3.1 Information Systems: History and Evolution, Features, Types and Functions

3.2 Web Based Health Information Management systems

3.2.1 Clinical Information Systems

3.2.2 Hospital Information Systems

3.2.3 Supportive Health Information Systems

3.3 Major Search Tools: Search Engines, Portals and Gateways

Unit IV

4.1 National and International Library and Information support to Health Science Information: Contribution of NLM (USA) and National Medical Library (New Delhi), WHO Library, HELLIS etc.

4.2. Health Information Systems: Architectures and Strategies

4.3 Healthcare information systems, Web 2.0 and the Semantic Web

4.4 Electronic Health Records (EHR): Need and Opportunities

4.5 Education, Research, and Career Paths in Health Informatics

Suggested Readings

Boorkman,. Jo, Anne., Fred, Wilbun., & Roper.(1994). *Introduction to the Reference Sources in the Health Science*. Medical Library Association.

Crawford, Susan.(1987).Information needs and uses. *Annuals Review of information science and technology*,13,pp.61-81.

Cronin, Blaise. Assessing Information needs. *Aslib proceedings*, 33(2), p.40.

Dervin,B.,& Nilan, M .(1986).Information needs and users. *Annuals Review of information science and technology*, 21, pp.3-33.

Devadason, F.J.,& P.P.Lingam. A methodology for the identification of information needs of users. *IFLA Journal*, 23(1), pp.41-51.

Goldman, Marvin.(1977). Health physics .In *McGraw hill Encyclopedia of Science and Technology*.(8th Ed .vol.8,p. 367).New York: McGraw hill.

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- Human health. (1951).In *Encyclopedia Britannica.: a new survey of universal knowledge (vol.17, p.345)*. Chicago: Encyclopedia Britannica Inc.
- Health problems in developing nations.(1951).In *Encyclopedia Britannica.: a new survey of universal knowledge (vol. 12, p.757)*. Chicago: Encyclopedia Britannica Inc.
- Health organizations. (1951).In *Encyclopedia Britannica: a new survey of universal knowledge (vol. 23, p.791)*. Chicago: Encyclopedia Britannica Inc.
- Kuhlthau, C. C. (1993). A principle of uncertainty for information seeking. *Journal of documentation* , 49(4),pp.339-355.
- Nolte, A. E. (1991).Health organizations. In *Encyclopedia Americana (international edition).(vol.13, p. 908)*.Danbury, Grolier inc.
- Rao,S.S.(2000).Health care information resources over the internet in libraries.*DESIDOC bulletin of Information Technology*,18 (6),pp.41-46.
- Stinson,E,. &R, Mueller,D.A.(1950).Survey of health professionals information habits and needs. *JAMA*, pp.140-3.
- Wager, K. A., Lee, F. W., & Glaser, J. P. (2005). *Managing health care information systems: A practical approach for health care executives*. San Francisco, CA: Jossey-Bass.
- Wager, K. A., Lee, F. W., Glaser, J. P., & Wager, K. A. (2009). *Health care information systems: A practical approach for health care management*. San Francisco, CA: Jossey-Bass.
- Wilson, T.D. (2002). Information seeking and mediated searching: Uncertainty and its co-relates. *Journal of American society for information science and technology*. 53 (9). pp. 716-727. Available at http://www.ucm.es/BUCM/compludoc/W/10207/15322882_10.htm
- Wilson, T.D. (1999). Exploring models of information behaviour: the 'Uncertainty' project. *Information Processing & Management*, 35(6), pp.839-849. Available at <http://www.sciencedirect.com/science>

Winter, A., & Haux, R. (2011). *Health information systems: Architectures and strategies*.
London: Springer.

Websites (Illustrative):

Entrez. (2007). Available at: <http://www.ncbi.nlm.nih.gov/gquery/gquery.fcgi>

Gelfar. (2007). Health Links. Available at: <http://www.healthlinks.net/>

Indian Council of Medical Research. (2007). Available at: <http://www.icmr.nic.in/>

JISC. (2007). Intute: Health and Life Sciences Gateway. Available at:
<http://www.intute.ac.uk/healthandlifesciences/>

Medical Library. (2007). ODLIS. Available at: http://lu.com/odlis/odlis_m.cfm#medicallib

National Library of Medicine. (2007). Medical Subject Headings. Available at:
<http://www.nlm.nih.gov/mesh/>