

## **LIS- 403:E4**

## **Health Science information system (4 Credits)**

### **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.

**Method of Instruction:** A combination of lectures, group discussions, guest lectures (where possible) and special presentations will form methods of instruction. The module will follow with an examination at the end of the semester carrying 80 marks covering all units having three types of questions (long, short and very short) to be solved within 2 1/2hrs. Besides, internal assessment of 20 marks will be assessed on attendance, performance in presentations, assignments and symposiums.

### **UNIT-I: Health Sciences**

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 Health Information systems HIS (USA)
- 1.2.5 American Health Net (AHN)
- 1.2.6 U.K Council of Health Informatics professions
- 1.2.7 Council on Health Research for Development (COHRED, Switzerland).
- 1.2.8 National institute of Health (NIH) (US).

### **UNIT II: Information Needs, Pattern & Sources**

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 Behaviour of Health Science Professionals: An Overview

### **UNIT-III: Information Systems, Services and Tools**

- 3.1 Health information systems: International and national e.g. Medline, WHOSIS, Entrez and Brenda.
- 3.2 Major search Tools: Search Engines, Portals and Gateways with particular reference to Pub med.

### **UNIT-IV: Information Support, Designing and implementation**

- 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, HELLS.
- 4.2. Designing a model Health Information System: Planning, tools, problems and perspectives.

### **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*.(8<sup>th</sup> Ed .vol.8,p. 367).New York: McGraw hill.

Health care.(1951). In *Encyclopedia Britannica.: a new survey of universal knowledge* (vol.23, p.791). Chicago: Encyclopedia Britannica Inc.

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, Carol C. (1993). A principle of uncertainty for information seeking. *Journal of documentation* ,49(4),pp.339-355.

Nolte,Anne.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.

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. Also Available at [http://www.ucm.es/BUCM/compludoc/W/10207/15322882\\_10.htm](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. Also Available at <http://www.sciencedirect.com/science>

**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](http://lu.com/odlis/odlis_m.cfm#medicallib)

National Library of Medicine. (2007). Medical Subject Headings.

Available at

<http://www.nlm.nih.gov/mesh/>