17PHDLS1   **Informatrics**

Unit – I

Bibliometrics: Definition , Scope and its usage. Librametry – Bibliometrics – Informatrics and scientometrics and Webometrics.

Unit – II

Laws and models – Empirical Laws and models – Law of Scattering, Bradford law of scattering: Lotka's law – Zip's law – Garfield law – their definition and applications.

Unit – III

Quantitative and Qualitative Techniques: Types, multi-dimensional scaling, cluster analysis, correspondence analysis.

Unit – IV

Citation Analysis, Definition, Theory of citing, Methods and tools, styles, different forms of citations, Age of citation, citation counts - citation Indexing – g-index, h-index. Impact Factor

Unit - V

Study Literature of different subjects, Annual age factor, and half life corrected obsolescence factor - Price's theory of Exponential Growth. Bibliometric Analysis Software BiB Excel,VOS Viewvar,Bajek.

Reference:

1. Garfield (E) Citation Indexing, 1971.
2. Sengupta (1) Bibliometric Research.
3. Ravichandra Rao (IV): Quantitative Methods in Library & Information Science, Delhi: Wiley Eastern, 1983.
4. Ken t (Allen): Encyclopedia of Library & Information Science, Vol 13 New York, Marcel Dekkar.
5. Ravichandra Rao (Iu): Informatrics, 1982.
6. Gupta (SP) Statistical Methods, 1978.

B-S. Swaroop Ra . K. Vijayal
5/7/16   5/7/11?

Unit - I

Digital Library: Definition, Concepts, Scope, History and Development

Unit – II

Internet Basic features and tools connectivity – Dialup, Leased lines, ISDN, Digital subscriber lines – E-Mail, SMDP,POP3CK.

Internet Protocols – FTP, HTTP – Web Browser- Internet Explorer: Internet Publications.

Unit - III

Electronic Library tools – Hardware, Networking aspects including internet software package for digital libraries GSDL,DSpace and Fedora – Creating Institutional Repositories,INSPEC and MEDLINE

Unit – IV

E – Resources – E - Document , E-Journals- E - Zine, Consortium – UGC – INFONET.

Unit - V

Rights Management, Intellectual Property Rights in India and Aborad, Perspectives and Problems,

Reference:

1. The Electronic Library, New York, Neal Schuman, 1984.
2. Electronic Mail and Message Handling, Vernest Peter, London Press,1985.
3. Communication and Networks: Goucher Phil: 2nd ed. New Delhi: Affiliated East –West, 1993.
4. Information Access Through Networks, Hyderabad: Book Links, 1996.
5. Effective Library and Information Centre, Management: Aldershort: Gower, 1990.

Subject Code	Title of the Paper		No. of Credits
16PHDLS1	Core – Bibliometrics	-	5

Unit I
Bibliometrics: Scope, definition, usage, a historical view of Librametry – Bibliometrics – Informetrics. Types of Bibliometric – Discriptive and evaluative Bibliometrics, Webometrics

Unit II
Classical Law of Bibliometrics - Bradford law of scattering: Lotka's law – Zip's law – Garfield law- and their application.

Unit III
Parameters in Bibliometrics studies: Variable scale objective, Multiple authorship trend – factor analysis – cluster analysis – content analyses.

Unit IV
Citation – Concept, Definition and Theory of citation. Different Forms of citations, Age of citation, citation counts – citation Indexing: H-Index, G-Index, SCI, SSCI.

Unit V
Study Literature of different subjects – Literature of obsolescence, Annual age factor, half life corrected obsolescence factor – Price's theory of Exponential growth.

Reference:

1. Akhandanand Shukla, Webometric Studies and Libraries, Ess Ess, New Delhi, 2015.
2. Ashwini, Tiwari, Bibliometrics, Informetrics and Scientometrics : Opening New Vistas of.., RBSA, Jaipur, 2006.
3. Gayatri Mahapatra, Bibliometric studies: in the Internet Era.: Indiana Publishing House, New Delhi, 2012.
4. Peter Ingwerson, Scientometric Indicators and Webometrics and Poly Represntation.., Ess Ess, New Delhi, 2011.
5. Karft (DH) & Boyce (BA): Operation Research of Libraries and Information Agencies: Techniques for evaluation of management decision. 1991.

K. Sathguru
LIBRARIAN
A. V. C COLLEGE
AUTONOMOUS,
MANNAMPANDAL-609 305

Dr. N. AMSAVENI
Assistant Professor
Department of Library & Information Science
Bharathidasan University, Tiruchirappalli-620 024.
Tamilnadu, India.

Dr. J. SELVAM, Ph.D.,
LIBRARIAN & HEAD,
P.G. & Research Dept. of Library &
Information Science,
AVVM. Sri Pushpam College,
POONDI - 613 503.

Subject Code	Title of the Paper		No. of Credits
16PHDLS2	Core – Opt – Library and Users	-	4

Unit I Library User Survey: Proforma method, Interview method and Records analysis method.

Unit II Information Users and their Information Needs: Categories of information users, Information Needs-Definitions and models.

Unit III User Studies: Method and techniques of user studies and Evaluation of User Studies.

Unit IV User education in developing countries-User Education in the UK, USA and India

Unit V Online User Education and Information Technology-Strategy development-Teaching methods and aids for user education-User education through Audio Visual aids.

Reference:
1. ADAMS, Mignon S and MORRIS, Jacquelyn M. Teaching Library skills for academic credit. Oryx Press, 1985.
2. DEVARAJAN G, User approach to Information in Libraries, New Delhi: ESS ESS, 1989.
3. FJALLBRANT, Nancy and MALLEY, LAN User education in Libraries. Rev, Ed.2, London: Clive Bingley, 1984.
4. Kunlthan, Carol Collier Seeking Meaning: a Process Approach to Library and Information Services 2nd ed. West fort: Green wood, 2004.
5. Kumar, P.S.G. Information Sources and Services, Delhi: B.R, 2004.

K. Se...
LIBRARIAN,
V. C. COLLEGE
AUTONOMOUS,
...-609 30⁵

Dr. N. AMSAVENI
Assistant Professor
of Library & Information Science
... 620 024.

Dr. J. SELVAM, Ph.D.,
LIBRARIAN & HEAD,

Semester	Subject Code	Title of the Paper	Hours of Teaching / Week	No. of Credits
I	18PHDLS3	Electronic Library	-	5

Unit I

Electronic Library: Concepts, Definition, Scope, History and Development ,Merits and Demerits .

Unit II

Electronic Library Tools – Hardware, Networking aspects including internet software package for digital libraries , OCR , Book Expert – Creating Institution Repositories, using Dspace and Green Stone

Unit III

E-Resources – E-Document, E-Journals, E-Zine, Open Source Database ,OSS Consortium – DELNET, UGC - INFONET
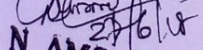
Unit IV

Right Management, Intellectual Property Rights, Copy Right, Right to Information Act, Patent and standards, Perspectives and Problems, E-documents, E-Commerce and E-Journals.
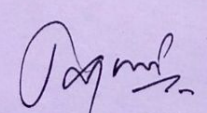
Unit V

Internet Basic features and tools connectivity – dialup, leased lines, ISDN, Digital subscriber lines – E-mail, SMDP, POP3CK. Internet protocols – FTP, HTTP – Web Browser – Search Engine, E – Publishing.
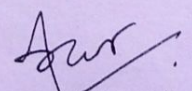
Reference:

1. Electronic Library, New York, Neal Schuman, 1984.
2. Electronic Mail and message handling, Vernest peter, London Press,1985.
3. Communication and Networks: Goucher Phil: 2nd ed . New Delhi: Affiliated East–West, 1993.
4. Information access through networks, Hyderabad: Book Links, 1996.
5. Effective Library and Information Centre, Management: Aldershort: Gower, 1990.

Dr. N. AMSAVENI
Assistant Professor
Department of Library & Information Science
Bharathidasan University

Dr.T.SIVAKUMAR, M.L.I.S., Ph.D.,
Assistant Librarian
Tamil University Library

Dr. J. SELVAM, Ph.D.,
LIBRARIAN & HEAD,
PG & Research Dept. of Library &
Information Science,
AVVM, Sri Pushpam College,
POONDI - 913 503.

Semester	Subject Code	Title of the Paper	Hours of Teaching / Week	No. of Credits
I	18PHDLS2	Library and Users	-	4

Unit I

Library User Survey: Proforma method, Interview method and Records analysis method.

Unit II

Information Users and their Information Needs: Categories of information users, Information Needs-Definitions and models.

Unit III

User Studies: Method and techniques of user studies and Evaluation of User Studies.
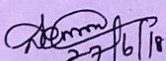
Unit IV

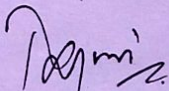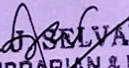User education in India - User Education in the UK and USA

Unit V

Online User Education and Information Technology-Strategy development-Teaching Methods and Aids for user education-User education through Audio Visual aids.

Reference:

1. ADAMS, Mignon S and MORRIS, Jacquelyn M. Teaching Library skills for academic credit. Oryx Press, 1985.

2. DEVARAJAN G, User approach to Information in Libraries, New Delhi: ESS ESS, 1989.

3. FJALLBRANT, Nancy and MALLEY, LAN User education in Libraries. Rev, Ed.2, London: Clive Bingley, 1984.

4. GIRJA KUMAR and KRISHNA KUMAR. Philosophy of user education, New Delhi: Vikas publishing, 1983.

5. SATYA NARAYANA B, User Education in Academic Libraries. New Delhi: ESS ESS, 1988.

Dr. N. AMSAVENI
Assistant Professor
Department of Library & Information Science
Bharathidasan University, Tiruchirappalli-620 024.
Tamilnadu, India.

Dr.T.SIVAKUMAR, M.L.I.S., Ph.D.
Assistant Librarian
Tamil University Library
Thanjavur – 613 010, Tamil Nadu

Dr. D. SELVAM, Ph.D.,
LIBRARIAN & HEAD,
P.G. & Research Dept. of Library & Information Science,
AVVM, Sri Pushpam College,
POONDI - 613 503.

Semester	Subject Code	Title of the Paper	Hours of Teaching / Week	No. of Credits
I	18PHDLS1	Research Methods and Statistical Techniques.	-	5

Unit I

Research – concept, meaning, need and process of research: types of Research – Basic, Applied and Interdisciplinary.

Unit II

Research Design: Hypotheses, Identification and Formulation of Problem- sampling types. Literature search – Print, non print and Electronic sources.

Unit III

Methods of Research: Scientific, Historical, Descriptive, Case Study, Survey, Comparative and Experimental.
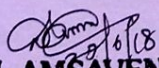
Unit IV

Data Collection Techniques and tools – Questionnaire – Interview and Observation, Research Methods in Library and Information service.
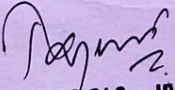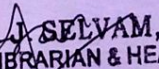
Unit V

Data Analysis – Analysis and classification of data, measures of central tendency – Mean: Mode & Median, Correlation, Chi-square test and ANOVA. Writing research Report, Structure of Report writing, An Overview of SPSS Package.

Reference:

1. Panda (B.D.) research Methodology for Library Science. New Delhi Anmol publications, 1997.

2. Hrishan Kumar. Research Methods in Library and Information Science. New Delhi Vikas Publishing House 1993.

3. Sreenikhi Iyengar, Researches in Library Science. New Delhi Anmol publications, 1996.

4. Seetharama(s) & Karisiddappa (C.R.) Current Research in Library & Information science. Jaipur: RBSA Publisher 1993.

5. Goswami: Research methodology in Library & Information science, New Delhi com monwealth publishers, 1995.

Dr. N. AMSAVENI
Assistant Professor
Department of Library & Information Science
Bharathidasan University, Tiruchirappalli-620 024,
Tamilnadu, India.

Dr. T. SIVAKUMAR, M.LIS., Ph.D.
Assistant Librarian
Tamil University Library
Thanjavur – 613 010, Tamil Nadu

Dr. A. SELVAM, Ph.D.,
LIBRARIAN & HEAD,
P.G. & Research Dept. of Library &
Information Science,
AVVM. Sri Pushpam College,
POONDI - 613 503.