<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Subject Code</th>
<th>Title of the Paper</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>14PHDLIS001</td>
<td>Advances in Knowledge Organization</td>
</tr>
<tr>
<td>2.</td>
<td>14PHDLIS002</td>
<td>Information Resources, Services and Systems</td>
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<tr>
<td>3.</td>
<td>14PHDLIS003</td>
<td>Information Retrieval and Natural Language Processing</td>
</tr>
<tr>
<td>4.</td>
<td>14PHDLIS004</td>
<td>Advances in Library Automation and Networking</td>
</tr>
<tr>
<td>5.</td>
<td>14PHDLIS005</td>
<td>Legal Issues in Library and Information Management</td>
</tr>
<tr>
<td>6.</td>
<td>14PHDLIS006</td>
<td>Resource Management</td>
</tr>
<tr>
<td>7.</td>
<td>14PHDLIS007</td>
<td>Digital Libraries</td>
</tr>
<tr>
<td>8.</td>
<td>14PHDLIS008</td>
<td>Information Literacy and Library Users</td>
</tr>
<tr>
<td>9.</td>
<td>14PHDLIS009</td>
<td>Content Management Systems</td>
</tr>
<tr>
<td>10.</td>
<td>14PHDLIS010</td>
<td>Bibliometrics, Scientometrics &amp; Webometrics</td>
</tr>
<tr>
<td>11.</td>
<td>Compulsory</td>
<td>Research Methodology</td>
</tr>
</tbody>
</table>
Objectives:
1. To provide an overview of various Knowledge organization tools & techniques
2. To know the standards, procedures & techniques in Knowledge organization
3. To facilitate the students to understand the current trends in Knowledge organization

Module- I
Knowledge organization: introduction meaning, principles & theory of Knowledge organization
Knowledge organization tools: classifications schemes- study of DDC, UDC and Cataloging codes

Module- II
Automatic classification: principles & features, studies and use of automatic classification

Module- III
Development of metadata standards for bibliographic descriptions: AACR2, RDA, ISBD, MARC family format, Dublin core, EAD, METS, BibFrame, etc.

Module- IV
Development of vocabulary control tools: subject cataloging tools, subject headings lists, thesaurus, SIL

References:
14) Web-resources
Objectives:
1. To understand the features and contents of various information resources (both print and non-print).
2. To understand the procedure and policies in development & management of information resources to provide easy and convenient access.
3. To study the types, characteristics and significance of various information services and systems
4. To learn the methodology or procedure in planning evaluation of Information resources, services and systems.

Module I
Information Resources: Introduction, meaning, types (Primary, Secondary & Tertiary), characteristics and use
Multimedia Resources: portals, Wikipedia subject gateways, multilingual resources

Module II
Non-documentary resources: Human resources- technology gate keepers, invisible colleges, weblogs, experts, consultants, etc.
Institutional resources: R & D units, learned organization & institutions etc.
Evaluation of resources: Print and non print, need, purpose & criteria for evaluation

Module III
Information services: introduction, scope, meaning, types and characteristics
Study of information services: reference services, alerting services (CAS/SDI), indexing and abstracting services, translation & document backup services. Planning and evaluation of information services and systems.

Module IV
Information systems: basic concepts, objectives, functions and types of information systems
Study of information systems and programmes: NISCAIR, DESIDOC, NASSDOC, INSPEC, COMPENDEX, MEDLARS etc.

References:
26) Web-resources
Objectives:
1. To study and understand the information processing, storage and retrieval techniques.
2. To facilitate in development of suitable search techniques.
3. To study and understand the facilities and utility of various search aids and vocabulary control tools.

Module-I
Information retrieval: Introduction, meaning, objectives and components.

Module-II
IR models: set theoretic, algebraic models and probability models, object oriented models.

Module-III
Searching and browsing: dynamic query formulations and re-formulations, search strategies & techniques, query protocols.
Thesaurus: functions, design and development.

Module-IV
Natural Language Processing (NLP)
Evaluation of IR systems: Recall & precision
Evaluation experiments: STAIRS, SMART, etc.
Trends in IRS

References:
26) Web-resources
Objectives:
1. To study and understand the basics of automation in libraries.
2. To study the components of library automation such as hardware, software and communication technologies.
3. To understand the application and advantages of ICT in networking of libraries.

Module-I
Library automation concepts: hardware/software, storage and communication technology.

Module-II
Planning and development of library automation: library housekeeping operations

Module-III
Library and information networks and library consortia: need & purpose

Module-IV
Study of library consortia networks: INFLIBNET, UGC-INFONET, INDEST, DELNET, CSIR-Consortia, etc.

References:
17) Web-resources
Objectives:
1. To study and understand the policies, principles and procedures in LIS management.
2. To acquire knowledge in legal issues related to information acquisition, archiving and use.
3. To understand the legislative changes and developments in India and outside in the context of library information systems and programmes.

Module-I
Information, data and knowledge- information and knowledge society

Module-II
Five laws of library science and their implications

Module-III
Library legislation: need & importance, public library legislation, KPL Act 1965, etc.

Module-IV
National information policy: importance and components
RTI, IPR, patent act, licensing systems, etc.

References:
15) Web-resources
Objectives:
1. To study the features, types and utility of various library resources.
2. To gain appropriate knowledge and skills in selection, acquisition, organization and promotion of use of various resources.
3. To acquire necessary knowledge and skills in management of various resources.

Module-I
Library as a system: components and sub components of library and their interrelationship.

Module-II
Collection Development: policy, procedures, Document circulation-functions, procedures, and methods, Serials control-functions, procedures and methods, Stock verification; Organizational structure, Library Authority and Library Committee.

Module-III
Human Resource Management: Delegation, communication and participation, Job description and analysis; Job evaluation, Inter-personal relations, Recruitment procedures, Motivation; Group dynamics, Training and development, Discipline and grievances, Performance appraisal.

Module-IV
Financial Management: budgeting and different types of budgets- PPBS, ZBB, Line Budget; Costing, cost and benefit analysis, Resource mobilization, Outsourcing.
Knowledge Management: Introduction, objectives and functions.
Application of KM tools in libraries.
Project management: PERT, CPM, Management of change; TQM- Definition, concept, elements, Quality audit, LIS related standards, Technology management, ISO 900 series.

References:
13) Seetharama, S. Guidelines for planning of libraries and information centers. Calcutta : IASLIC,
15) Web-resources
Objectives:
1. To study and understand the importance of digital libraries.
2. To acquire knowledge in designing and development of digital libraries.
3. To understand the digital resources, management and its use.
4. To understand design and development of access provisions for effective use of digital library resources.

Module-I

Module-II
Digitization: Planning and implementation, Digital preservation – Trends and Issues, Copyright and Licensing and possible solutions, Scanners and its types, OCR, Metadata and Metadata Standards; OAI-PMH, Digital Library Interoperability

Module-III
Institutional repositories: concept, meaning, features and use. Library 2.0, Web 2.0 & Web 3.0 technologies.
Building and Management of Institutional Repositories (IR): Intuitional Archive v/s Self Archive, Workflow of building Institutional Repositories, Role of SPARC in building of IR, Institutional Repositories in India.

Module-IV
Open access movement: objectives, significance, development and trends.

References:
Objectives:
1. To know the concept of the information literacy.
2. To understand types and models of information literacy.
3. To study the standards, guidelines, policies and principles of information literacy.
4. To study the types of users, their needs and utility of user studies in libraries.

Module- I
Information literacy: meaning, definition, evolution, historical perspectives.

Module- II
Types of information literacy: technological literacy, media literacy, digital and computer literacy, lifelong learning and its components.

Module- III
User information seeking behavior and perceptive of the user and user studies: concepts, meaning and objectives, types of users, information seeking behavior, information use studies, information seeking behavior models.

Module- IV
Guidelines and standards for Information Literacy Programmes: ALA and ACRL, Information literacy competencies, Current trends in Information literacy

References:
Content Management Systems

Objectives:
1. To study the scope and components of content management systems.
2. To learn the principles and application of content management systems in libraries.
3. To study and understand the role of technology and data mining techniques in development of content management systems.

Module- I

Module- II
Role of other related technologies: XML, DBMS, Portals, Data Mining, Agent technologies, Personalization, Study of CMS Software, Evaluation of CMS.

Module- III
Content management systems software: study of Joomla, Drupal, Wordpress, Moodle.

Module- IV
Evaluation of Content management systems.

References:
Objectives:

1. To study and understand the basics of Bibliometrics, Scientometrics & Webometrics.
2. To understand concept, meaning & purpose of Librametrics to Cybermetrics.
3. To know the bibliometrics laws, growth of literature studies & evaluation.

Module- I
Scientometrics: Concept, Meaning, Definition, Scope, Need and Purpose of Librametrics to Cybermetrics- an overview

Module- II
Citation Analysis: Meaning, Definition, Origin of Citation and Citation Studies, Bibliographic coupling, co-citation, SCI, SSCI, A&HCI, Google Scholar.
Bibliometric Laws: Bradford’s Law, Zipf’s Law, Lotka’s Law, etc.

Module- III
Implications of Bibliometric and Scientometric studies in information resource development and management

Module- IV
Growth of Literature Studies: Growth of Literature, Growth Models: Exponential Model, Logistic Model, Power Model, Gompertz Model and Obsolescence of Literature
Impact factor: h-Index, g-Index, etc.

References:


18) Bellis, N. D. Bibliometrics and Citation Analysis: From the Science Citation Index to Cybermetrics, Scarecrow Press, 2008.