

# An Analysis of E-Content Modules in Library and Information Science: With Special Reference to E-Pg Pathshala

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## **Abstract:-**

This paper examines the e-content modules of e-PG Pathshala project which is developed by MHRD Government of India under the National Mission on Education through ICT. The data were collected from e-PG Pathshala website (<http://epgp.inflibnet.ac.in/>) for this study during Dec 2020 and further analyzed by major subjects and sub categories of major subjects. It is found that total 25169 modules have contributed by 67 subjects. This Paper focused on e-PG Pathshala project and how library professionals helped to develop the content. e-PG Pathshala has 15 Papers/ courses in Library Science, which comprises of 393 e-modules developed . The INFLIBNET Centre is an host institute for the courses of library and information science.

## **Key Words:-**

e- content modules, e – PG Pathshala, INFLIBNET, *ICT based learning*

## I. INTRODUCTION

With the advancement of information and communication technology (ICT), the process of teaching and learning has undergone a tremendous change. In today's era we are witnessing extraordinary developments in ICTs with impressive decrease in the, cost, size and affordability of computers. The tendency towards the learning through self directed educational resources in various fields has automatically grown.

The e-PG Pathshala is an educational dedicated portal available in open access. The learners desired e-PG Pathshala is a e-content project which is initiated by MHRD, under its National Mission on Education through ICT (NME-ICT) for development of e-content in 67 subjects at postgraduate level with High quality, curriculum-based, interactive content in different subjects across all disciplines of social sciences, arts, fine arts and humanities, natural and mathematical sciences, linguistics and languages. It is implemented by INFLIBNET centre with the support of University Grants Commission. (Jeyapragash, B., Rajkumar, T., & Muthuraj, A. (2017).

## II. OBJECTIVES OF THE STUDY

The major objectives of the study are

- To find out the total coverage of e-PG Pathshala according to occupied e-contents.
- To analyze the subject wise contribution of e-content modules in e-PG pathshala by major subject disciplines.
- To find out Paper covered under Library Science Subject
- To identify the total number of modules covered in the subject Library and Information Science.
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## III. METHODOLOGY

Data has been collected from the official website of E-PG Pataskala for the study. The courses which are completed up to December 2020 have been selected for the study where same numbers of courses were completed. According to the research the data is being collected from the availability in Library and Information Science Subject and its sub-categories regarding different courses. Collected data has been tabulated in the form of Table.

## IV. ANALYSIS AND INTERPRETATION OF DATA

The analysed data has been presented in a tabulated form. The following table 1 represents the total coverage of e-PG Pathshala according to occupied e-contents.

**Table -1: E-Contents in e-PG Pathashala**

Sr.No.	Types of Contents	Total
01	E-Text	20000+
02	Video	19000+

03	Experts	3200+
04	Quiz	30000+
05	Subject	70
06	Papers	723

**Table -2: Subject wise Contribution of e-content Modules**

Sr. No.	Subject	Modules in each Subject	Percentage
1	Adult Education	190	0.75
2	Analytical Chemistry/Instrumentation	222	0.88
3	Anthropology	559	2.22
4	Architecture	164	0.65
5	Biochemistry	261	1.04
6	Bioinformatics	01	0.003
7	Biophysics	450	1.79
8	Biotechnology	261	1.04
9	Botany	176	0.70
10	Buddhist Studies	67	0.27
11	Business Economics	457	1.82
12	Chemistry	565	2.24
13	Chinese	26	0.10
14	Commerce	469	1.86
15	Comparative Study of Religions	77	0.31
16	Computer Science	633	2.52
17	Criminology	482	1.92
18	Earth Sciences	49	0.19
19	Economics	567	2.25
20	Education	106	0.43
21	Electronic Science	117	0.47
22	English	560	2.23
23	Environmental Sciences	530	2.12
24	Food and Nutrition	602	2.39
25	Food Technology	329	1.31
26	Forensic Science	560	2.23
27	Geography	337	1.33
28	Geology	136	0.54
29	Hindi	592	2.35
30	Home Science	640	2.55
31	Hotel & Tourism Management	639	2.53
32	Human Resource Management	599	2.37
33	Human Rights and Duties	364	1.44
34	Indian Culture	524	2.08
35	Information Technology	318	1.26
36	Japanese	453	1.79
37	Jyotish- ganit	560	2.23
38	Law	462	1.83
<b>39</b>	<b>Library and Information Science</b>	<b>395</b>	<b>1.56</b>
40	Linguistics	493	1.95
41	M Planning	45	0.17
42	Management	599	2.37
43	Material Science	465	1.84
44	Mathematics	567	2.25
45	Media and communication studies	383	1.52
46	Performing Arts(Dance/Drama/Theatre)	560	2.23

47	Pharmaceutical Science	215	0.85
48	Philosophy	333	1.32
49	Physical Education, Sports and Health Education	37	0.14
50	Physics <b>25169</b>	343	1.36
51	Political Science	222	0.88
52	Population Studies	383	1.52
53	Psychology	599	2.37
54	Public Administration	102	0.45
55	Risk / Disaster Management	21	0.08
56	Russian Studies	436	1.73
57	Sanskrit (Acharya in Vyakrana)	534	2.13
58	Sanskrit (M.A)	640	2.54
59	Social Medicine and Community Health	111	0.44
60	Social Work Education	487	1.94
61	Sociology	526	2.08
62	Spanish	560	2.23
63	Statistics	595	2.36
64	Urdu	312	1.23
65	Visual Arts	487	1.94
66	Women Studies/Gender Studies	431	1.71
67	Zoology	184	0.73
<b>Total</b>		<b>25169</b>	<b>100</b>

The above table-2 shows details about distribution of Subject wise modules in each subject. Presently total 25169 modules are distributed under 67 main subjects. It is found that Library and Information Science is one of the subject with 395 modules. The details of subcategory wise courses are illustrated in following table-3.

**Table No. 3:- List of Papers covered in Library Science Subject**

Sr. No.	Papers /Courses	Uploaded Modules in each Paper	%
1	Knowledge Society	17	4.32
2	Knowledge Organization and Processing (Classification)	26	6.61
3	Knowledge Organization and Processing (Cataloguing)	34	8.65
4	Information Sources System and Services	35	8.91
5	Information Communication Technology for Libraries	39	9.92
6	Management of Library and Information Centres & Knowledge Centres	31	7.89
7	Information Storage and Retrieval	15	3.82
8	Digital Libraries	30	7.63
9	Social Science Information System	15	3.82
10	Informetrics and Scientometrics	19	4.83
11	Academic Libraries	23	5.85
12	Special and Research Libraries	28	7.13
13	Public Libraries	36	9.16
14	Library Use and User Studies	31	7.89
15	Media and Information Literacy	14	3.57
<b>Total</b>		<b>393</b>	<b>100</b>

It has been observed from Table-3 under 15 major papers/courses in Library and Information Science, which contributed the high quality, curriculum-based, interactive e-content coverage of e-PG Pathshala with 393 modules across all fifteen courses. Information Communication Technology for Libraries with 9.92 % (39 modules) contribution being the top of the list, followed by Public Libraries (36 Modules), Information Sources System and Services having 35 modules whereas Media and Information Literacy is the least contributed subject (3.57%).

**Table No. 4:- Subject wise number of Modules covered in Library Science**

S. No.	Total No. of Paper/Courses	Number of Modules
1	Knowledge Society	General Introduction to the Course on Knowledge Society Data Information and knowledge Knowledge Society The Digital Divide Theories & Models of Communication National Information Infrastructure The Information Discipline Knowledge Management IPR:Copyright ITR Censorship Economics of Information E-Commerce & E-Goernance Social Media in a Knowledge Society Social Media in Library Serices Information Society issues in the Network Enironment Information Society Vs Knowledge Society
2	Knowledge Organization and Processing (Classification)	Classification as a logical Process and Daily Activity Bibliographic Classification Species of bibliographic Classification Classification System and Its Components Canon of characteristics Formation of Arrays and Chain Principles of helpful sequence Canon of terminology Notation Subjects & Discipline Subjects Main Classes & Their Order Isolates & Their Oxiliary Fundamental Categories Structure & Feature of DDC Structure & Feature of DDC Structure & Feature of DDC Structure & Feature of UDC Structure & Feature of LC Call Book and Collection Number
3	Knowledge Organization and Processing (Cataloguing)	Library Catalogue History of Catalogue Code Normatie Principles-I Normatie Principles-II Forms of Catalogue SubCataloguing-I Sub. Cataloguing-II Cooperative Cataloguing Organization of Cataloguing Filing Rules Types of entries in CCC Types of entries in AACR2 Cataloguing Practice Rendering of headings and pseudonym Co-operative authorship in CCC & AACR2

		Cataloguing Practice:Govt Publications Corporate Authorship Cataloguing Practice : Institutions
4	Information sources, systems and services	Information sources Types of Information sources: Documentary Types of Information sources: Non-Documentary Reference Sources Dictionaries Encyclopaedias Geographical Sources Biographical Sources Bibliographical sources Indexing & Abstracting Sources Handbooks, Yearbooks etc. Sources for Current Information Standards, Patents, trade Catalogue etc. Review Sources Information users and their information needs User studies , user Education Reference Services Reference Interview Literature Search Reference Librarian Role of Various Specialists in Design & Dev. Information Services Alerting Services Information Intermediaries Referral, Document Delivery & Translation Information Products Organisation of International Information International nuclear Information system International system for Agricultural science & technology International information systems Organisation of national information systems and programmes National information systems and programmes in social sciences National information systems and programmes in Humanities National information systems : NISCAIR National information systems : ENVIS
5	Information Communication Technologies for Libraries	Basics of ICT Operating Systems Functional units of computers Application software Understanding modern Library standards Programming Languages Networking Network security Networking techniques, media and devices Data Networks Network Protocols Internet Search Engines Web 2.0 Semantic Web Open source Library software Library Automation Acquisition Cataloguing

		<p>Circulation  Serial Control  OPAC  Case study: SOUL  Case study: KOHA  Case study: LIBSYS  Library Security Technology  Retro-conversion In cataloguing  Academic Library Consortia &amp; Network-Part-I  Academic Library Consortia &amp; Network-Part-II  Case studies Library Network in UK  Case studies Library Network in USA  Library Network in India  Library Consortium: UGC INFONET  Library Network in India: DELNET  Library Consortium: INDEST  CLOUD COMPUTING  Open Data &amp; Open licensing  Crowd sourcing  Ethics and prevention cyberspace plagiarism</p>
6	Management of Library & Information centres & amp knowledge centres	<p>Concepts, definition and scope of Library management  Principles of management  Schools of management thoughts  TQM  Change Management  Governance of a Library  Organizational structure of the Library  Different section of a modern Library  Selection and acquisition  Technical processing  Shelving, maintenance and preservation  Digitization and computerization  Strategic planning  Operations research  Operational planning techniques  Financial planning  Financial management  Space planning  event planning  disaster planning  human resource planning and development  Library managers and their roles  Team Management  Analyzing performances of staff  Motivating employees and users  Self management  Communications in Library &amp; Information centres  Statistics and reporting  Marketing of Library &amp; Information services  Management of Technology  Management information systems</p>
7	Information storage and retrieval	<p>Introduction  Basics concepts and components  Database management systems  The physical organization of data  Querying of the information retrieval systems  ISAR SYSTEMS:</p>

		<p>Evaluation and measurement  Multimedia information retrieval  Uses of information Retrieval systems  Evolutions in information Retrieval  Advanced coeres in Information storage and retrieval part-I  Advanced coeres in Information storage and retrieval part-II  Statistical methods for information retrieval  Web-based information retrieval  Information extraction</p>
8	Digital Libraries	<p>Introduction of Digital Library  Historical Revolution  Major components  Search and browse interface  Digital library technical infrastructure  Digital library architecture  Collection development  Knowledge organization  Digital library planning and implementation  Digitization part-I  Digitization part-II  Digital library and semantic web  Open access  DRM/access management part-I  DRM/access management part-II  Digital library services  Digital preservation part-I  Digital preservation part-II  Digital library  Evaluation and case studies  Digital library standards  IPR in digital library  Digital library initiative in India part-I  Digital library initiative in India part-II  Major project: UK  Major project: USA  Major project: Rest of the world  Case studies: Dspace  Case studies: GSDL  Eprint</p>
9	Social science information systems	<p>Social sciences  Information sources  Books and Monographs  Learned periodical and scholarly journals  General periodicals, Newspapers  Government publications  Statistical serials  Major social science publishers  Reference sources  Subject encyclopaedias  Electronic databases  Electronic databases: statistical &amp; financial sources  Electronic databases: citation indexes  Services provided by the organization  Evolution of social science research library in india.</p>
10	Informetrics & amp : scientometrics	<p>Librmetry, bibliometrics, scientometrics  Data sources and software tools  Library use studies</p>

		<p>Analysis of circulation data  Classical law of bibliometrics  Bradford distributions  Bibliometrics IN Assessing productivity  Growth of Literature  Obsolscence factor  Citation analysis  Science indicators  Technology based indicators  National mapping of science  Collaboration of science  Sceintomrtrics studies and their role  Challenges of Bibliometrics and scientometrics  Webometrics, cybermetrics and Nettometrics  Basics of Research Methodology  Basics of testing of Hypothesis</p>
11	Academic Libraries	<p>History of Academic Library of India  Institutional and social context of Academic library  Media and information Literacy  Role of academic library in media and information Literacy  Financial management in University Libraries  Collection development and access management in academic library  Human resource development  Library resource sharing and networking  Academic Library users, use and user studies-2  Academic Library buildings and infrastructure and safety issues-2  ICT Application in Academic libraries and its impact-2  Media and information Literacy  Marketing of information products and services  Marketing of Academic Library and services  Resource sharing, networks and consortia-2  Library networks and consortia in india  Future of academic Libraries  Academic library services  School Libraries  Academic Library system  Users and information use in academic library  The impact of information and communication technology on society</p>
12	Special and Research Libraries	<p>Special libraries characteristics and functions  History and development  Changing landscape of information and transformation  Changing role of Library professional s in the emerging information scenario  Role of special libraries in transformation of patent organization into learning organization  The emergence of Hybrid special library  Enhancing the outreach of special libraries  Special libraries in the digital ethnography of social networks  Planning and internal organization of building  Planning and acquisition of equipment  Library Authority, Leadership and decision making mechanisms  Collection development policies and procedures  Preservation management and weeding out collection  Management of technical services  Circulation management and control  Management of reference and information services  CAS AND SDI SERVICES</p>



		<p>Virtual information resources in the thrust area of the organization</p> <p>Aligning Knowledge of resources</p> <p>Analysis of users needs and customization</p> <p>Achieving competitive advantage for the organization</p> <p>Special library marketing</p> <p>Information analysis, repackaging and consolidation services</p> <p>Overview of emerging knowledge management tools</p> <p>Sources of finance and budgeting techniques</p> <p>Cost effectiveness and cost benefit analysis</p> <p>Research Library networks, consortia and resource sharing</p> <p>Automation of special library operations and services.</p>
13	Public Libraries	<p>Public Libraries: concepts, and characteristics</p> <p>Public library and society</p> <p>Functions of Public Library</p> <p>Agencies in the promotion and development</p> <p>Role of Library associations</p> <p>National Library policy</p> <p>Library Legislation in Indian states</p> <p>Public library acts enacted in 1948-1960</p> <p>Public library acts enacted in 1970-1980</p> <p>Public library acts enacted in 1990-2000</p> <p>Development plans and resources Mobilisation</p> <p>Financial resources of Public Library</p> <p>Physical resources of Public Library</p> <p>Documentary resources of Public Library</p> <p>Human resources of Public Library</p> <p>Organsational structure of Public Library systems</p> <p>Planning and administration of Public Library</p> <p>Public Library norms, standards and guidelines</p> <p>Governance of public Libraries</p> <p>Performance evaluation</p> <p>Types of Library services</p> <p>Application of information technology in public libraries</p> <p>Resource sharing and networking</p> <p>Public library scenario in UK</p> <p>Public library scenario in USA</p> <p>Public library scenario in Canada</p> <p>Public Library Hand Book</p> <p>Pioneers of Public Library Movement in India-Part-I</p> <p>Pioneers of Public Library Movement in India-Part-II</p> <p>Pioneers of Public Library Movement in India-Part-III</p> <p>Library services for the specially abled persons</p>
14	Library use and User studies	<p>Introduction to user studies</p> <p>Evaluation of user studies</p> <p>Review of Literature on user studies</p> <p>Catagories of users</p> <p>Identifying users information needs</p> <p>Assessment of information needs of different user group</p> <p>Methods and techniques of use studies part-I</p> <p>Methods and techniques of use studies part-II</p> <p>User Education</p> <p>Recent trends in User education</p> <p>Information seeking behavior: concepts and methods</p> <p>Information seeking behavior: what, why and how</p> <p>Information searching strategies and principles part-I</p> <p>Models of Information seeking behavior</p> <p>An overview of research output in user studies</p>

		<p>Ranganathan's Philosophy on user studies with special reference to five laws</p> <p>Online Information seeking behavior</p> <p>Information need of persons with disabilities</p> <p>Recent trends in User studies</p> <p>Information Literacy</p> <p>Models of Information Literacy part-I</p> <p>Models of Information Literacy part-II</p> <p>Information Literacy 2.0</p> <p>E-Literacy and Literacies</p> <p>Curriculum development in Information Literacy</p> <p>Creation of instructional manual on Information Literacy</p> <p>Promotional agencies in il programmes</p> <p>Information Literacy in higher education</p> <p>Case studies: Information Literacy programmes in University of Delhi</p> <p>ICT and Information Literacy</p> <p>Information Literacy products</p>
15	Media and Information Literacy	<p>Media and Information Literacy: definition, need and purpose and role of MIL</p> <p>Theories and models of Information Literacy</p> <p>MIL policies and strategies</p> <p>Media Literacy so far</p> <p>Information Literacy standards</p> <p>Right to information (RTI)</p> <p>Scholarly communication and open access</p> <p>Data literacy</p> <p>Media and information ethics</p> <p>Social media: role of social media in society</p> <p>Social media platforms and tools</p> <p>Constructing media message</p> <p>Open resources</p> <p>Media ethics</p>

#### V. CONCLUSIONS

e-PG pathashala counts among the best e-learning platform in India in which plenty of learning materials are uploaded on its portals in module format. Presently total 25169 modules are distributed under 67 main subjects. It is found that Library and Information Science is one of the subject with 395 modules. 15 major papers/courses in Library and Information Science, which contributed the high quality, curriculum-based, interactive e-content coverage of e-PG Pathshala with 393 modules across all fifteen courses. Information Communication Technology for Libraries with 9.92 % (39 modules) contribution being the top of the list, followed by Public Libraries (36 Modules), Information Sources System and Services having 35 modules whereas Media and Information Literacy is the least contributed subject (3.57%). It is a very useful project for PG students for acquiring knowledge about the respected topics. It can help the student community in India to acquire an equal quality of education which is free of any kind of discrimination.

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