

# INTERNATIONAL JOURNAL OF RESEARCH IN COMPUTER APPLICATION & MANAGEMENT

IJR  
CM



A Monthly Double-Blind Peer Reviewed (Refereed/Juried) Open Access International e-Journal - Included in the International Serial Directories

Indexed & Listed at:

Ulrich's Periodicals Directory ©, ProQuest, U.S.A., EBSCO Publishing, U.S.A., Cabell's Directories of Publishing Opportunities, U.S.A., Google Scholar,

Open J-Gate, India [link of the same is duly available at Infibnet of University Grants Commission (U.G.C)],

Index Copernicus Publishers Panel, Poland with IC Value of 5.09 & number of libraries all around the world.

Circulated all over the world & Google has verified that scholars of more than 5000 Cities in 187 countries/territories are visiting our journal on regular basis.

Ground Floor, Building No. 1041-C-1, Devi Bhawan Bazar, JAGADHRI – 135 003, Yamunanagar, Haryana, INDIA

<http://ijrcm.org.in/>

# CONTENTS

<b>Sr. No.</b>	<b>TITLE &amp; NAME OF THE AUTHOR (S)</b>	<b>Page No.</b>
1.	AN ASSESSMENT OF THE LEVEL OF e-COMMERCE ADOPTION AND BENEFITS DERIVED BY SMALL AND MEDIUM ENTERPRISES (SMEs) IN ZIMBABWE <i>DR. B. NGWENYA &amp; F. SINYOLO</i>	1
2.	RETURNS DOMINATE THE MARKETING OF RISK COVERAGE IN POSTAL LIFE INSURANCE SECTOR: A STUDY WITH REFERENCE TO CHHATTISGARH POSTAL CIRCLE <i>ASHA RAMTEKE, SS KHANUJA &amp; OP CHANDRAKAR</i>	4
3.	A STUDY ON FACTOR INFLUENCING OF THE CONSUMER BUYING BEHAVIOR OF TWO WHEELER MOTOR CYCLES - WITH REFERENCE TO CHITTOOR DISTRICT, ANDHRA PRADESH <i>DELLI KUMAR. KOTI &amp; DR. P. BALAJI PRASAD</i>	8
4.	FACTORS INFLUENCING INVESTMENT IN MUTUAL FUND: A STUDY REGARDING INVESTORS BEHAVIOUR <i>DR. HITESH VYAS &amp; AUM DAVE</i>	13
5.	CSR REPORTING IN THE LIGHT OF THE EUROPEAN UNION DIRECTIVES <i>RYSZARD KAMIŃSKI</i>	16
6.	A STUDY ON THE INVESTORS AWARENESS TOWARDS HEALTH INSURANCE POLICY IN TAMILNADU <i>DR. P. RAMAN</i>	20
7.	WEATHER INDEX BASED CROP INSURANCE ASSESSMENT: TECHNOLOGICAL ADVANTAGES IN INDIA <i>G. KOTRESHWAR &amp; V.GURUSIDDARAJU</i>	27
8.	CRM IN RETAILING <i>DR. NARINDER TANWAR</i>	32
9.	LIBRARY AUTOMATION: AN OVERVIEW <i>P. SEKAR &amp; DR. K.C. ABDUL MAJEED</i>	36
10.	IMPACT OF STRESS ON MENTAL HEALTH OF SCHOOL TEACHERS IN RANCHI: A SOCIO - PSYCHOLOGICAL STUDY <i>BINDA KUMARI</i>	39
11.	SMART CITIES – CHALLENGES AND IMPLEMENTATION APPROACHES: COMPARISON PERSPECTIVE IN INDIA, UAE AND SINGAPORE <i>RAMAMURTHY VENKATESH, CHINTAN VADGAMA &amp; MADHAVI DAMLE</i>	44
12.	IMPACT OF TRAINING PROGRAMMES OF CENTRAL BOARD FOR WORKERS EDUCATION ON THE LABOUR FORCE OF KERALA <i>SHEEBA JOSEPH</i>	53
13.	ONLINE BUYING BEHAVIOUR AMONG TEENAGERS - AN INDIAN PERSPECTIVE <i>ABHINAV GUPTA</i>	56
14.	WEST BENGAL - A TOURIST DESTINATION: COMPARATIVE ANALYSIS OF BENGAL TOURISM BUSINESS MODEL WITH KERALA & GUJARAT <i>SANJANA MONDAL</i>	58
15.	e-COMMERCE IN INDIA: A BOON OR BANE <i>DR. GURINDER KAUR</i>	63
16.	CHALLENGES OF E-SERVICE ADOPTION AND IMPLEMENTATION IN ALLAHABAD <i>DR. AARTI ARORA &amp; AMIT KUMAR</i>	66
17.	EFFECTS OF TEACHING FACILITIES AND LEARNING RESOURCES ON THE PERFORMANCE OF SCIENCE IN PRIMARY SCHOOLS IN KENYA <i>GRACE AKINYI OYUGI</i>	73
18.	IMPACT OF LIBERALISATION ON WORKING OF APMC: A CASE STUDY OF DHARWAD DISTRICT <i>DR. VIJAYAKUMAR MANE</i>	75
19.	A STUDY ON THE CUSTOMER PERCEPTION TOWARDS PASSENGER CARS WITH SPECIAL REFERENCE TO MALAPPURAM DISTRICT IN KERALA <i>SHAHIBA.EC</i>	78
20.	COLLECTIVE BARGAINING: A GENERAL PERSPECTIVE <i>BRAJESH KUMAR PARASHAR</i>	81
	REQUEST FOR FEEDBACK & DISCLAIMER	85

## CHIEF PATRON

**PROF. K. K. AGGARWAL**

Chairman, Malaviya National Institute of Technology, Jaipur  
(An institute of National Importance & fully funded by Ministry of Human Resource Development, Government of India)  
Chancellor, K. R. Mangalam University, Gurgaon  
Chancellor, Lingaya's University, Faridabad  
Founder Vice-Chancellor (1998-2008), Guru Gobind Singh Indraprastha University, Delhi  
Ex. Pro Vice-Chancellor, Guru Jambheshwar University, Hisar

## FOUNDER PATRON

**LATE SH. RAM BHAJAN AGGARWAL**

Former State Minister for Home & Tourism, Government of Haryana  
Former Vice-President, Dadri Education Society, Charkhi Dadri  
Former President, Chinara Syntex Ltd. (Textile Mills), Bhiwani

## FORMER CO-ORDINATOR

**DR. S. GARG**

Faculty, Shree Ram Institute of Business & Management, Urjani

## ADVISORS

**PROF. M. S. SENAM RAJU**

Director A. C. D., School of Management Studies, I.G.N.O.U., New Delhi

**PROF. S. L. MAHANDRU**

Principal (Retd.), Maharaja Agrasen College, Jagadhri

## EDITOR

**PROF. R. K. SHARMA**

Professor, Bharti Vidyapeeth University Institute of Management & Research, New Delhi

## EDITORIAL ADVISORY BOARD

**DR. RAJESH MODI**

Faculty, Yanbu Industrial College, Kingdom of Saudi Arabia

**PROF. PARVEEN KUMAR**

Director, M.C.A., Meerut Institute of Engineering & Technology, Meerut, U. P.

**PROF. H. R. SHARMA**

Director, Chhatrapati Shivaji Institute of Technology, Durg, C.G.

**PROF. MANOHAR LAL**

Director & Chairman, School of Information & Computer Sciences, I.G.N.O.U., New Delhi

**PROF. ANIL K. SAINI**

Chairperson (CRC), Guru Gobind Singh I. P. University, Delhi

**PROF. R. K. CHOUDHARY**

Director, Asia Pacific Institute of Information Technology, Panipat

**DR. ASHWANI KUSH**

Head, Computer Science, University College, Kurukshetra University, Kurukshetra

**DR. BHARAT BHUSHAN**

Head, Department of Computer Science & Applications, Guru Nanak Khalsa College, Yamunanagar

**DR. VIJAYPAL SINGH DHAKA**

Dean (Academics), Rajasthan Institute of Engineering & Technology, Jaipur

**DR. SAMBHAVNA**

Faculty, I.I.T.M., Delhi

**DR. MOHINDER CHAND**

Associate Professor, Kurukshetra University, Kurukshetra

**DR. MOHENDER KUMAR GUPTA**

Associate Professor, P. J. L. N. Government College, Faridabad

**DR. SHIVAKUMAR DEENE**

Asst. Professor, Dept. of Commerce, School of Business Studies, Central University of Karnataka, Gulbarga

**DR. BHAVET**

Faculty, Shree Ram Institute of Engineering & Technology, Urjani

### ASSOCIATE EDITORS

**PROF. ABHAY BANSAL**

Head, Department of Information Technology, Amity School of Engineering & Technology, Amity University, Noida

**PROF. NAWAB ALI KHAN**

Department of Commerce, Aligarh Muslim University, Aligarh, U.P.

**ASHISH CHOPRA**

Sr. Lecturer, Doon Valley Institute of Engineering & Technology, Karnal

### FORMER TECHNICAL ADVISOR

**AMITA**

Faculty, Government M. S., Mohali

### FINANCIAL ADVISORS

**DICKIN GOYAL**

Advocate & Tax Adviser, Panchkula

**NEENA**

Investment Consultant, Chambaghat, Solan, Himachal Pradesh

### LEGAL ADVISORS

**JITENDER S. CHAHAL**

Advocate, Punjab & Haryana High Court, Chandigarh U.T.

**CHANDER BHUSHAN SHARMA**

Advocate & Consultant, District Courts, Yamunanagar at Jagadhri

### SUPERINTENDENT

**SURENDER KUMAR POONIA**

## **CALL FOR MANUSCRIPTS**

We invite unpublished novel, original, empirical and high quality research work pertaining to the recent developments & practices in the areas of Computer Science & Applications; Commerce; Business; Finance; Marketing; Human Resource Management; General Management; Banking; Economics; Tourism Administration & Management; Education; Law; Library & Information Science; Defence & Strategic Studies; Electronic Science; Corporate Governance; Industrial Relations; and emerging paradigms in allied subjects like Accounting; Accounting Information Systems; Accounting Theory & Practice; Auditing; Behavioral Accounting; Behavioral Economics; Corporate Finance; Cost Accounting; Econometrics; Economic Development; Economic History; Financial Institutions & Markets; Financial Services; Fiscal Policy; Government & Non Profit Accounting; Industrial Organization; International Economics & Trade; International Finance; Macro Economics; Micro Economics; Rural Economics; Co-operation; Demography; Development Planning; Development Studies; Applied Economics; Development Economics; Business Economics; Monetary Policy; Public Policy Economics; Real Estate; Regional Economics; Political Science; Continuing Education; Labour Welfare; Philosophy; Psychology; Sociology; Tax Accounting; Advertising & Promotion Management; Management Information Systems (MIS); Business Law; Public Responsibility & Ethics; Communication; Direct Marketing; E-Commerce; Global Business; Health Care Administration; Labour Relations & Human Resource Management; Marketing Research; Marketing Theory & Applications; Non-Profit Organizations; Office Administration/Management; Operations Research/Statistics; Organizational Behavior & Theory; Organizational Development; Production/Operations; International Relations; Human Rights & Duties; Public Administration; Population Studies; Purchasing/Materials Management; Retailing; Sales/Selling; Services; Small Business Entrepreneurship; Strategic Management Policy; Technology/Innovation; Tourism & Hospitality; Transportation Distribution; Algorithms; Artificial Intelligence; Compilers & Translation; Computer Aided Design (CAD); Computer Aided Manufacturing; Computer Graphics; Computer Organization & Architecture; Database Structures & Systems; Discrete Structures; Internet; Management Information Systems; Modeling & Simulation; Neural Systems/Neural Networks; Numerical Analysis/Scientific Computing; Object Oriented Programming; Operating Systems; Programming Languages; Robotics; Symbolic & Formal Logic; Web Design and emerging paradigms in allied subjects.

Anybody can submit the **soft copy** of unpublished novel; original; empirical and high quality **research work/manuscript** **anytime** in **M.S. Word format** after preparing the same as per our **GUIDELINES FOR SUBMISSION**; at our email address i.e. [infoijrcm@gmail.com](mailto:infoijrcm@gmail.com) or online by clicking the link **online submission** as given on our website (**FOR ONLINE SUBMISSION, CLICK HERE**).

## **GUIDELINES FOR SUBMISSION OF MANUSCRIPT**

### 1. **COVERING LETTER FOR SUBMISSION:**

**DATED:** \_\_\_\_\_

**THE EDITOR**

IJRCM

**Subject:** **SUBMISSION OF MANUSCRIPT IN THE AREA OF** \_\_\_\_\_.

**(e.g. Finance/Mkt./HRM/General Mgt./Engineering/Economics/Computer/IT/ Education/Psychology/Law/Math/other, please specify)**

**DEAR SIR/MADAM**

Please find my submission of manuscript titled ' \_\_\_\_\_ ' for likely publication in one of your journals.

I hereby affirm that the contents of this manuscript are original. Furthermore, it has neither been published anywhere in any language fully or partly, nor it is under review for publication elsewhere.

I affirm that all the co-authors of this manuscript have seen the submitted version of the manuscript and have agreed to inclusion of their names as co-authors.

Also, if my/our manuscript is accepted, I agree to comply with the formalities as given on the website of the journal. The Journal has discretion to publish our contribution in any of its journals.

**NAME OF CORRESPONDING AUTHOR**

Designation/Post\*

Institution/College/University with full address & Pin Code

Residential address with Pin Code

Mobile Number (s) with country ISD code

Is WhatsApp or Viber active on your above noted Mobile Number (Yes/No)

Landline Number (s) with country ISD code

E-mail Address

Alternate E-mail Address

Nationality

\* i.e. Alumnus (Male Alumni), Alumna (Female Alumni), Student, Research Scholar (M. Phil), Research Scholar (Ph. D.), JRF, Research Assistant, Assistant Lecturer, Lecturer, Senior Lecturer, Junior Assistant Professor, Assistant Professor, Senior Assistant Professor, Co-ordinator, Reader, Associate Professor, Professor, Head, Vice-Principal, Dy. Director, Principal, Director, Dean, President, Vice Chancellor, Industry Designation etc. **The qualification of author is not acceptable for the purpose.**

**NOTES:**

- a) The whole manuscript has to be in **ONE MS WORD FILE** only, which will start from the covering letter, inside the manuscript. **pdf. version is liable to be rejected without any consideration.**
  - b) The sender is required to mention the following in the **SUBJECT COLUMN of the mail:**  
**New Manuscript for Review in the area of** (e.g. Finance/Marketing/HRM/General Mgt./Engineering/Economics/Computer/IT/ Education/Psychology/Law/Math/other, please specify)
  - c) There is no need to give any text in the body of the mail, except the cases where the author wishes to give any **specific message** w.r.t. to the manuscript.
  - d) The total size of the file containing the manuscript is expected to be below **1000 KB**.
  - e) Only the **Abstract will not be considered for review** and the author is required to submit the **complete manuscript** in the first instance.
  - f) **The journal gives acknowledgement w.r.t. the receipt of every email within twenty-four hours** and in case of non-receipt of acknowledgment from the journal, w.r.t. the submission of the manuscript, within two days of its submission, the corresponding author is required to demand for the same by sending a separate mail to the journal.
  - g) The author (s) name or details should not appear anywhere on the body of the manuscript, except on the covering letter and the cover page of the manuscript, in the manner as mentioned in the guidelines.
2. **MANUSCRIPT TITLE:** The title of the paper should be typed in **bold letters, centered and fully capitalised**.
  3. **AUTHOR NAME (S) & AFFILIATIONS:** Author (s) **name, designation, affiliation (s), address, mobile/landline number (s), and email/alternate email address** should be given underneath the title.
  4. **ACKNOWLEDGMENTS:** Acknowledgements can be given to reviewers, guides, funding institutions, etc., if any.
  5. **ABSTRACT:** Abstract should be in **fully italic printing**, ranging between **150 to 300 words**. The abstract must be informative and elucidating the background, aims, methods, results & conclusion in a **SINGLE PARA**. **Abbreviations must be mentioned in full**.
  6. **KEYWORDS:** Abstract must be followed by a list of keywords, subject to the maximum of **five**. These should be arranged in alphabetic order separated by commas and full stop at the end. All words of the keywords, including the first one should be in small letters, except special words e.g. name of the Countries, abbreviations etc.
  7. **JEL CODE:** Provide the appropriate Journal of Economic Literature Classification System code (s). JEL codes are available at [www.aea-web.org/econlit/jelCodes.php](http://www.aea-web.org/econlit/jelCodes.php). However, mentioning of JEL Code is not mandatory.
  8. **MANUSCRIPT:** Manuscript must be in **BRITISH ENGLISH** prepared on a standard A4 size **PORTRAIT SETTING PAPER**. **It should be free from any errors i.e. grammatical, spelling or punctuation. It must be thoroughly edited at your end.**
  9. **HEADINGS:** All the headings must be bold-faced, aligned left and fully capitalised. Leave a blank line before each heading.
  10. **SUB-HEADINGS:** All the sub-headings must be bold-faced, aligned left and fully capitalised.
  11. **MAIN TEXT:**

**THE MAIN TEXT SHOULD FOLLOW THE FOLLOWING SEQUENCE:****INTRODUCTION****REVIEW OF LITERATURE****NEED/IMPORTANCE OF THE STUDY****STATEMENT OF THE PROBLEM****OBJECTIVES****HYPOTHESIS (ES)****RESEARCH METHODOLOGY****RESULTS & DISCUSSION****FINDINGS****RECOMMENDATIONS/SUGGESTIONS****CONCLUSIONS****LIMITATIONS****SCOPE FOR FURTHER RESEARCH****REFERENCES****APPENDIX/ANNEXURE****The manuscript should preferably be in 2000 to 5000 WORDS, But the limits can vary depending on the nature of the manuscript.**

12. **FIGURES & TABLES:** These should be simple, crystal **CLEAR, centered, separately numbered** & self-explained, and the **titles must be above the table/figure. Sources of data should be mentioned below the table/figure. It should be ensured that the tables/figures are referred to from the main text.**
13. **EQUATIONS/FORMULAE:** These should be consecutively numbered in parenthesis, left aligned with equation/formulae number placed at the right. The equation editor provided with standard versions of Microsoft Word may be utilised. If any other equation editor is utilised, author must confirm that these equations may be viewed and edited in versions of Microsoft Office that does not have the editor.
14. **ACRONYMS:** These should not be used in the abstract. The use of acronyms is elsewhere is acceptable. Acronyms should be defined on its first use in each section e.g. Reserve Bank of India (RBI). Acronyms should be redefined on first use in subsequent sections.
15. **REFERENCES:** The list of all references should be alphabetically arranged. **The author (s) should mention only the actually utilised references in the preparation of manuscript** and they may follow Harvard Style of Referencing. **Also check to ensure that everything that you are including in the reference section is duly cited in the paper.** The author (s) are supposed to follow the references as per the following:
  - All works cited in the text (including sources for tables and figures) should be listed alphabetically.
  - Use (ed.) for one editor, and (ed.s) for multiple editors.
  - When listing two or more works by one author, use --- (20xx), such as after Kohl (1997), use --- (2001), etc., in chronologically ascending order.
  - Indicate (opening and closing) page numbers for articles in journals and for chapters in books.
  - The title of books and journals should be in italic printing. Double quotation marks are used for titles of journal articles, book chapters, dissertations, reports, working papers, unpublished material, etc.
  - For titles in a language other than English, provide an English translation in parenthesis.
  - **Headers, footers, endnotes and footnotes should not be used in the document. However, you can mention short notes to elucidate some specific point,** which may be placed in number orders before the references.

**PLEASE USE THE FOLLOWING FOR STYLE AND PUNCTUATION IN REFERENCES:**

**BOOKS**

- Bowersox, Donald J., Closs, David J., (1996), "Logistical Management." Tata McGraw, Hill, New Delhi.
- Hunker, H.L. and A.J. Wright (1963), "Factors of Industrial Location in Ohio" Ohio State University, Nigeria.

**CONTRIBUTIONS TO BOOKS**

- Sharma T., Kwatra, G. (2008) Effectiveness of Social Advertising: A Study of Selected Campaigns, Corporate Social Responsibility, Edited by David Crowther & Nicholas Capaldi, Ashgate Research Companion to Corporate Social Responsibility, Chapter 15, pp 287-303.

**JOURNAL AND OTHER ARTICLES**

- Schemenner, R.W., Huber, J.C. and Cook, R.L. (1987), "Geographic Differences and the Location of New Manufacturing Facilities," Journal of Urban Economics, Vol. 21, No. 1, pp. 83-104.

**CONFERENCE PAPERS**

- Garg, Sambhav (2011): "Business Ethics" Paper presented at the Annual International Conference for the All India Management Association, New Delhi, India, 19-23

**UNPUBLISHED DISSERTATIONS**

- Kumar S. (2011): "Customer Value: A Comparative Study of Rural and Urban Customers," Thesis, Kurukshetra University, Kurukshetra.

**ONLINE RESOURCES**

- Always indicate the date that the source was accessed, as online resources are frequently updated or removed.

**WEBSITES**

- Garg, Bhavet (2011): Towards a New Gas Policy, Political Weekly, Viewed on January 01, 2012 <http://epw.in/user/viewabstract.jsp>



## LIBRARY AUTOMATION: AN OVERVIEW

P. SEKAR

RESEARCH SCHOLAR

BHARATHIYAR UNIVERSITY

COIMBATORE

DR. K.C. ABDUL MAJEED

ASSOCIATE PROFESSOR

DLISC, FAROOK COLLEGE

CALICUT

## ABSTRACT

*A well-equipped and well maintained library is indeed, the foundation stone of our modern educational system. Library automation in the 21st century is an inter-connecting system. It enables information users to share information resources through network. This article briefly explains the concept of library automation, objective, need, areas, planning, advantage & disadvantages of library automation, etc.*

## KEYWORDS

library automation, information communication technology, areas of automation, software for library automation

## INTRODUCTION

The library plays a critical role in our society it is an important component of any educational institution, which is hub of the teaching, and learning activities where students, researchers and teachers can explore the vast resources of information. In the age of information communication technology, computers are being used for day-to-day housekeeping activity of the library which saves the time of the end users, and library professional also and at the same time avoid duplication of work and make the library service smooth and effective.

In the age of ICT library scenario has been drastically changed in terms of collection, organization and services. Simultaneously, user's demands and attitudes have changed in its kinds. Also the information seeking behavior of user has dynamically changed. They want relevant, authentic information very quickly within a single place at their hand. This concept has posed challenges for library professionals for quick delivery of library services and information. This development in library field has brought the idea of Library Automation.

## AUTOMATION

Automation is the use of machines, control systems and information technologies to optimize productivity in the production of goods and delivery of services. Automation greatly decreases the need for human sensory and mental requirements while increasing load capacity, speed, and repeatability.

## CONCEPT AND MEANING OF LIBRARY AUTOMATION

The word "automation" has been derived from Greek word "automose" means something, which has power of spontaneous motion or self-movement. The term "automation" was first introduced by D.S. Harder in 1936, who was then with General Motor Company in the U.S. He used the term automation to mean automatic handling of parts between progressive production processes

According to Encyclopedia of Library and Information Science, "automation is the technology concerned with the design and development of process and system that minimize the necessity of human intervention in operation" (Kent, 1977).

According to McGraw Hill Encyclopedia of Science and Technology automation as "a coined word having no precise generally accepted technical meaning but widely used to imply the concept, development, or use of highly automatic machinery or control systems" (McGraw, 1982). Webster's Third New International Dictionary of English Language Automation is defined as "automatically controlled operation of an apparatus, process or system by mechanical or electronic device that takes place of human organs of observation, effort and decision". (Gove, 1966)

Library automation may be defined as the application of automatic and semiautomatic data processing machines (computers) to perform traditional library house-keeping activities such as acquisition, circulation, cataloguing and reference and serials control. Today "Library Automation" is by far the most commonly used terms to describe the mechanization of library activities using the computer. (Uddin, 2009).

Encyclopedia of Library and Information Sciences "Library Automation is the use of automatic and semiautomatic data processing machines to perform such traditional library activities as acquisitions, cataloguing, and circulation. These activities are not necessarily performed in traditional ways, the activities themselves are those traditionally associated with libraries; library automation may thus be distinguished from related fields such as information retrieval fields such as information retrieval, automatic indexing and abstracting and automatic textual analysis" (Kent, 1977).

## WHAT IS LIBRARY AUTOMATION?

Traditional library work consisting of acquisitions, technical processing, serials control, circulation and reference services all entail time consuming manual work. Though these activities are essential to proper functioning of a library they consume professional staff time that might otherwise go towards user services and library development. Library computerization is now gaining importance necessitating the establishment of profession wide standards. Comprehensive studies of library computer systems world over include discussions of machine-managed acquisitions, cataloguing, serials control, circulation and bibliographic service modules. The literature in this area highlights major aspects of computer's role in the library environment. Similar to several aspects of library management, the demand for more and faster information services and the decline in library resources are compelling.

## NEED AND OBJECTIVES OF LIBRARY AUTOMATION

Information explosion has resulted in the production of a large amount of literatures in every field of knowledge. Accordingly, the print documents are coming to the library in huge numbers which is not possible for a library to manage the collection manually. Now days no user has time to search the required and relevant information from the dense heap of information collection. They have no time to go shelf by shelf to pick up a book. So it necessitated for library automation. In most of libraries are yet to be automated. The various factors that necessitated changing a manually operated library system an automated library system are as follows.

- Recording keeping activities of library can be done effectively in automated environment.
- Issue, return and renewal of books can be performed quickly and searching of documents through Online Public
- Access Catalogue (OPAC) which is a powerful tool of library automation.
- It will be cost effectiveness
- Maintain bibliographical records of all the materials, in a computerized form.



- Provide bibliographical details through a single enumerative access point of holdings of a library.
- Reduce the repetition in the technical processes of housekeeping operations.
- Provide access to information at a faster rate.
- Share the resources through library networking and implement new IT processes to provide high quality information.

### AREAS OF LIBRARY AUTOMATION

As a first step in a planning process, it is desirable to formulate a model for computerization listing all itemized and prioritized information systems being maintained on a manual basis by the library. For this exercise it is necessary to break down these procedures into their constituent parts. When further subdividing these activities, each item is to be considered of its functional elements. The systems and subsystems listed below are only indicative and may vary with differing library system environments.

These are acquisitions, selection, ordering, claiming/cancellation, receiving/invoice processing, extended procurements, Gift tracking, Fund Control, maintains information about all library related funds, ability to group funds (nesting), track fund allocations and adjustments, Fund encumbrance, Fund expenditure, Cash Balance, Free Balance, Automatic updating of fiscal information through recording of specific transactions, Track year-to date expenditures and Create Purchase Orders.

#### TECHNICAL SERVICES

Books, Serials, Special Collections, Cataloguing, Circulation, charge/Renewal, Discharge, Loan Periods, Processing schedules, Holds, Messages, Blocks, Notices, Transaction Recording Devices for offline processing, Member control and Inventory Control.

#### SERIALS CONTROL

Receipt (check-in), Claiming, Bindery control, replacements, monographic serials, invoice processing

#### REFERENCE SERVICES

Desk services, User tools, Bibliographic utilization, Reprography, Interlibrary communications, General Administration, Grants Administration, Library Publications, Bindery, Periodical Citation Searching, OPAC and Bibliographic Database.

#### PLANNING FOR LIBRARY AUTOMATION

- Needs mapping
- Best possible package
- Staff involvement
- Budget (Purchase, Operation, maintenance etc.)
- Hardware requirement (Client /Server, Printer etc.)
- Platform (Operating system)
- User awareness
- Maintenance

#### LIBRARY SOFTWARE'S USED FOR AUTOMATION

- **Database services.** SOUL (Software for University Library)
- Developed by INFLIBNET
- Window based user-friendly software
- Well-designed screens; logically arranged functions with existence help messages
- Based on client server architecture
- Multi user access
- Provides facility to create view records in regional language (multilingual)
- Nominal price (includes installation)
- onsite training, one-year support, free future updates multilingual software)

#### LIBSYS

- Most widely used in INDIA
- Fully integrated
- Multi user
- System design to run on Super, Micro,
- Minicomputer under UNIX/LAN
- platforms

#### SANJAY

- Developed by DESIDOC
- Is an Augmented version of CDS/ISIS
- It is menu driven and works in windows
- environment with LAN support

#### MAITRAYEE

#### LIBMAN

#### ADVANTAGE OF LIBRARY AUTOMATION

- Speed Information processing is done much faster which ensures better work flow through the library.
- Accuracy The degree of precision and accuracy in processing information is high. However, it is dependent on the accuracy of information led into the system.
- Cost effectiveness Operating costs can be reduced if the system is well designed and well managed.
- Reduction in library workloads Library workloads can be reduced as the computer can do vast amount of work and processing.
- Improved services to users High rate and better quality in performance is possible through the use of computers.
- Avoids/eliminates duplication of work.
- Easier access to external databases
- Providing on-line access and search of information possible

#### DISADVANTAGES OF LIBRARY AUTOMATION

- Initial and recurring expenses
- Hardware and Software Obsolescence
- Lack of Staff
- Financial Expenses
- Security Problems
- Maintenance of Automation software is totally depending on Computer administrator
- Continuous staff training is required for it It is totally depend on Electricity
- Costly maintenance

**CONCLUSION**

Library automation is the process which needs proper planning, timely implementation and periodical evaluation. The librarian with the administrators has to set the priorities after analyzing the current status and future requirements. Selection of the suitable integrated library management package according to the needs of the users and the library is important. Retrospective conversion, OPAC, circulation and serials control, etc. should be conducted with care. Staff training and user education are keys to the success of the process. Library automation invites realistic approach. Librarian should acquire adequate knowledge about the hardware and software options available. All libraries should use standard software packages for automation and database creation to facilitate the exchange of bibliographic records between libraries. Databases may preferably be created in the MARC21 format because most libraries at the international level follow this. There is need for continuous monitoring of automation activities for improvement of the situation and for meeting the future needs.

Academic achievement of a student is closely related to his/her ability to find, evaluate and use the required information according to the curriculum needs.

**REFERENCES**

1. **Dhande, S. (2013).** Library automation: Historical overview its need and service. National conference on Redesigning libraries and information centers in digital era. (339pp). Degloor: Degloor college
2. **Galhotra M. (2008),** "Information Technology in library and information services". Ess Ess Pub. New Delhi.
3. **Nidhi (2012).** Automation and Networking of Library. *National Conference on KNOWLEDGE ORGANIZATION IN ACADEMIC LIBRARIES (KOAL-2012)* (pp. 18). New Delhi: Library Professional Association.
4. **Shabana T. & Saleem A. (2012).** Automation & Computerization of Academic Library. *National Conference on KNOWLEDGE ORGANIZATION IN ACADEMIC LIBRARIES (KOAL-2012)* (pp.169- 172). New Delhi: Library Professional Association.

## **REQUEST FOR FEEDBACK**

**Dear Readers**

At the very outset, International Journal of Research in Computer Application & Management (IJRCM) acknowledges & appreciates your efforts in showing interest in our present issue under your kind perusal.

I would like to request you to supply your critical comments and suggestions about the material published in this issue, as well as on the journal as a whole, on our e-mail **infoijrcm@gmail.com** for further improvements in the interest of research.

If you have any queries, please feel free to contact us on our e-mail [infoijrcm@gmail.com](mailto:infoijrcm@gmail.com).

I am sure that your feedback and deliberations would make future issues better – a result of our joint effort.

Looking forward to an appropriate consideration.

With sincere regards

Thanking you profoundly

**Academically yours**

Sd/-

**Co-ordinator**

## **DISCLAIMER**

The information and opinions presented in the Journal reflect the views of the authors and not of the Journal or its Editorial Board or the Publishers/Editors. Publication does not constitute endorsement by the journal. Neither the Journal nor its publishers/Editors/Editorial Board nor anyone else involved in creating, producing or delivering the journal or the materials contained therein, assumes any liability or responsibility for the accuracy, completeness, or usefulness of any information provided in the journal, nor shall they be liable for any direct, indirect, incidental, special, consequential or punitive damages arising out of the use of information/material contained in the journal. The journal, neither its publishers/Editors/ Editorial Board, nor any other party involved in the preparation of material contained in the journal represents or warrants that the information contained herein is in every respect accurate or complete, and they are not responsible for any errors or omissions or for the results obtained from the use of such material. Readers are encouraged to confirm the information contained herein with other sources. The responsibility of the contents and the opinions expressed in this journal are exclusively of the author (s) concerned.

## ABOUT THE JOURNAL

In this age of Commerce, Economics, Computer, I.T. & Management and cut throat competition, a group of intellectuals felt the need to have some platform, where young and budding managers and academicians could express their views and discuss the problems among their peers. This journal was conceived with this noble intention in view. This journal has been introduced to give an opportunity for expressing refined and innovative ideas in this field. It is our humble endeavour to provide a springboard to the upcoming specialists and give a chance to know about the latest in the sphere of research and knowledge. We have taken a small step and we hope that with the active co-operation of like-minded scholars, we shall be able to serve the society with our humble efforts.

## *Our Other Journals*

