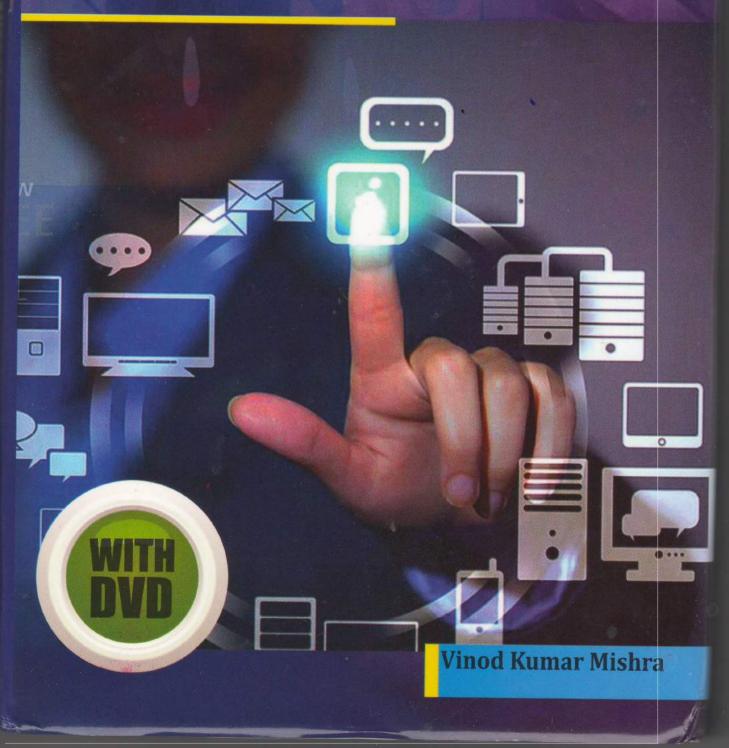


**CHALLENGES WITH CASE STUDIES** 





#### **ABOUT THE AUTHOR**

The author has rich practical experience in almost all domains of library and information science and has worked in country's leading institutes like

IIT Kanpur and IIT Roorkee and ISRO. He is presently working in NIT Rourkela. He has also worked in ISO certified schools. The author did his B.Sc., B.Lib & I.Sc and M.Lib & I.Sc. From Banaras Hindu University (BHU) and did Master in Sociology from CSJMU, Kanpur. He also has a Diploma in computer applications. Author has contributed many articles in national and international conferences and Journals as well as delivered invited lectures in the field of library and information science. He has conducted many workshops in the capacity of Convener/Coconvener and has been invited as a resource person in many workshops.

He was instrumental in implementing Koha Software at various institutes like the Central University of Assam, Central University of Gujrat, Central University of Jammu, Central University of Odisha, IISER Bhopal to name a few. Apart from above author is having a wealth of experience on other open source software like DSpace, Joomla, Wordpress, Newgenlib, and Ubuntu. The author supports implementation of open source solution for libraries on a voluntary basis in India and abroad via remote logins, community support forums and by creating tools like live DVD. Author has developed a website http://mishravk.com/ for the assistance of library and information community with a motto "Empowering Library Professionals to Empower Society (ELPES)".

### BASICS OF LIBRARY AUTOMATION, KOHA LIBRARY MANAGEMENT SOFTWARE AND DATA MIGRATION: CHALLENGES WITH CASE STUDIES

Copyright © by Author

All rights reserved. No part of this book may be reproduced in any form or by any electronic or mechanical means including information storage and retrieval systems without permission in writing from the publisher, except by a reviewer, who may quote brief passages in a review.

While extensive effort has gone into ensuring the reliability of information appearing in this book, the publisher makes no warranty, express or implied on the accuracy or reliability of the information, and does not assume and hereby disclaims any liability to any person for any loss or damage caused by errors or omissions in this publication.

ISBN: 978-81-7000-814-9

First Published 2016

Published by: **Ess Ess Publications** 4831/24, Ansari Road, Darya Ganj, New Delhi-110 002. INDIA Phones: 23260807, 41563444

Fax: 41563334

E-mail: info@essessreference.com

www.essessreference.com

Cover Design by Patch Creative Unit

Printed and bound in India at Salasar Imaging Systems.

I dedicate this book to my mother, father, spouse, son and daughter who helped me in providing all the comfort of life, motivated and to become a writer of a book. I would also like to dedicate the book to the entire Koha community for developing such excellent software for social development.

# **Acknowledgements**

This book would not have been possible without the help of so many people in so many ways. I would like to thank all the institutes like IIT Kanpur. IIT Roorkee. ISRO. and NIT Rourkela. who have given me an opportunity to work and explore the knowledge in the field of library and information science. I would like to include a special note of thanks to Prof. Sunil Kumar Sarangi. Director NIT Rourkela. who have given a lot of freedom to work and always motivated to extend the help to needy libraries and guided me in learning so many new things related to LIS. Thanks to Mr. D.P. Tripathi. Assistant Librarian. NIT Rourkela. who have contributed to enhance my technical knowledge and share his ideas during various workshops and implementation of Koha. ILMS at different institutes.

I am also grateful to the entire team of Biju Patnaik Central Library. NIT Rourkela who always appreciated me for the good works and motivated for developing IT based further skills in LIS. Thanks and grateful to the entire Koha community and developers of Koha. ILMS, who have directly and indirectly contributed a lot to this book. The inspiration for writing this book which came from my friends and seniors are priceless who always motivated me from the various corners of the country. At last 1 would like to say thanks to Ms. Prantika Ari. Library Trainee. BPCL, NIT Rourkela for review of my book draft and family members who encouraged and helped me a lot during entire career and co-operated me in learning the new things in odd days/hours.

## **Contents**

Acknowledgements

Preface

	A SHIP TO STOP TO STATE OF STATE OF THE STAT	
1.	Introduction to Library Automation	1
	1.1. Library Automation	2
	1.2. Objectives of Library Automation	4
	1.3. Library Automation Costs and Challenges	5
	1.4. Area of Automation in Libraries	6
2.	Planning and Steps of Library Automation	12
	2.1. Understanding of History and Existing System and Service	ces 13
	2.2. Defining the Problems and Drafting Specifications	15
	2.3. Evaluation of In-house/ Vendor Proposals	17
	2.4. Putting Final System into Real Work and Testing	19
	2.5. Retrospective Conversion of Data and Other Works	19
	2.7. Sample Tender/quotation Socument with Specifications	21
3.	Application of RFID Technology in Libraries	38
4.	Software for Library Automation	44
	4.1. History of Library Automation	44
	4.2. Criteria for Selecting Library Software	46
	4.3. Popular Library Management Software	47

4.4. Open Source vs. Propriety Software

Basics of Koha Library Management Software

5.2. Koha Installation and Hardware/Software Requirements

112

123

5.1. Basic Modules of Koha and Its Features

5.3. System Setup and Other Parameters of Koha

5.4. Acquisition Management in Koha

5.5. Serial Management in Koha

		130
	5.6. Cataloguing in Koha	141
	5.7. Patron Management in Koha	145
	5.8 Circulation Management in Kona	149
	5.9 Reporting and statistics in Kona	162
	5.10. Online Public Access Catalogue	166
	5.11. Tools and other features of Koha	
	Data Migration and Various Tools	172
6.	6.1. Application of Microsoft Excel in Data Migration	176
	6.1. Application of Microsoft Excel 12	190
	6.2. Application of MarcEdit with Examples	201
7.	Koha Implementations : Case Studies	Acker
1.	7.1 Case study of Indian Institute of Technology	201
	D-ambros Sanaralibui Campus	232
	VI Silchar: A Central University	236
	7.3 DAV Public School, CCL, NIS Barkakara,	239
	7.4. MGAHV Central University, Wardha	244
	5 Control University of Jammu	250
	7.6 National Institute of technology Rourkeld	BAU.
	7.7. Bhakti Vedanta Research Center, Kolkata	253
		257
8.	Koha Live DVD	269
B	ibliography	

ir e pTIII th lib th

rea htt

que

# Preface

HIS HIR WAY COMP THE BOOK INCIDING THE IDEAS BATT THE AND

The book "Basics of Library Automation, Koha Library Management software, and data migration: challenges with case studies" is an outcome of authors approximately ten years of practical experience in the field of library automation. The idea of writing this book came into mind after gaining rich experience of Koha implementation at various reputed institutes of India and helping libraries abroad through remote login and telephonic upports on a voluntary basis. More than twenty libraries have invited the author for data migration, and implementation of Koha ILMS at their institutes apart from this many workshops has been organized by the author and served as a resource person in workshops as well as delivered many lectures related to library automation and open source solution for libraries.

This book fulfills the academic requirement for all level of students and faculties of Library and information science as well as research scholars who wish to do research in Library Automation and related open source solutions. Apart from above, this is equally written and very useful for Koha workshop trainers, computer professionals, Koha vendors and who wish to implement the Koha software and migrate data from existing software/Excel. The book contains all the basics of library automation, Koha library management system, and data migration skills. Many successful case studies of implementation of the Koha software and migration of

data from excel and other software have been included in the book.

This book deald with real practical problems involving in library automation and their solutions for the cost-effective and efficient use of ILMS. The author is sharing his expertise with the various social media and personal website which is available at http:// mishravk.com/, the book includes the ideas and tips and tricks of Koha implementations as well as data migrations' which were gained from various community support forums. This book is divided into eight chapters and includes bibliography at the end of the book for further . studies. One of the main benefits of reading and procuring the book is its accompanying material (LiveDVD of Koha) which is very popular on the entire globe and used by thousands of people for learning Koha as well as implementations in the libraries without any technical issues. Many people from library and information science domain requested the author to share the ideas of library automation, Koha implementations and data migrations in the form of a book so that entire LIS fraternity may get the benefit of huge expertise gained in the said area.

Hence, this book is a complete solution for basics of library automation and developing expertise on Koha, ILMS. The readers are suggested to read the book since chapter one and install the Koha ILMS on any test machine for practicing as per the instructions provided in the book. The current book does not only fulfill the theoretical requirements of LIS professionals as per their academic curriculum in automation, but it also provides a lot of practical materials/instructions for practice and developing IT-based skills.

The book ensures the reader that after consulting the book, they will be able to understand all the basic skills which need to be required for successful implementation of automation tools and techniques in Preface (xiii)

libraries. As the book is written by real practical/working experiences gained by the author in Indian top level institutes/Libraries like IIT's, NIT's and ISRO, etc. hence the content provides the real life problems and their solutions for efficient and successful implementation of automation solutions. Koha has been chosen as it is the world most popular open source solution and libraries are willing to adopt it because of its state of the art features, but due to lack of expertise and knowledge in the said field many libraries are handicapped. Koha has also been incorporated in all level of study in the field of library and information science too, hence keeping all in view author felt the requirement of such book in the public domain which can be used for gaining knowledge in the said field and their implications for the real world.

The book is written in a very simple English language which can be understood by any persons having little knowledge of English. The students of Bachelor/Master of library and information science will get a clear theoretical as well as practical idea about the library automation, Koha, data migrations, etc. as per their academic requirements. Any reader of this book may contact the author in case of any difficulty in understanding the concepts theoretically as well as practically, the author always welcome their feedback to improve the contents. At last author would like to share that the royalty received from this book will be contributed to Koha community for its further development and poor children's of India.

— Vinod Kumar Mishra
http://mishravk.com

#### ~SOME TITLES OF INTEREST~

## TRANSFORMATION OF LIS EDUCATION, LIBRARIES AND INFORMATION SERVICES FOR KNOWLEDGE SOCIETY

(Set of Two Volumes)

I.V. Malhan, Trishanjit Kaur & Navkiran Kaur

#### **RE-IMAGINING ACADEMIC LIBRARIES**

A Perspective on Instutional Repositories Veeresh Hanchinal, Vidya Hanchinal & Arul Pragasam

#### LIBRARIANSHIP

Redefining and Redesigning Beyond the Customary Craft
Shiva Sukula

#### **ELECTRONIC RESOURCE MANAGEMENT IN LIBRARIES**

Trends, Issues and Challenges

Bhojaraju Gunjal, Dibya K. Pradhan, Dhanwantari P. Tripathi, Vinod K. Mishra & Puspita Mishra

#### INTEGRATED LIBRARY MANAGEMENT SYSTEMS

An Indian Scenario of Modern Library Automation
Hilal Ahmed

## NET / JRF / SLET / PET OBJECTIVE QUESTION LIBRARY & INFORMATION SCIENCE PAPER II AND PAPER III

(With Latest Solved Question Papers)

Anil C. Bansode

## AN INTRODUCTION TO INFORMATION SCOURCES AND RETRIEVAL N.R. Satyanarayana

LIBRARIANSHIP IN 21st CENTURY
H.N. Prasad, Aditya Tripathi, Rajani Mishra & Manoj K. Verma

SOCIAL MEDIA IN LIBRARIES Sandhya Aggarwal

#### CITATION STUDIES

A Performance Evaluation Technique of LIS Scientists

Jyoti Gupta

#### (Ess Ess Publications)

4831/24, Ansari Road, Darya Ganj, New Delhi-110 002

Phones: 41563444, 23260807 Fax 011-41563334

E-mail: info@essessreference.com

www.essessreference.com



Rs. 1225 /-