# KRISHNA INSTITUTE OF MEDICAL SCIENCES "DEEMED TO BE UNIVERSITY, KARAD

## Integrated Library Management System (ILMS)

- Resolution of Board of Management for Developing In-house Library Management Software

- Brochures

- OPAC (Online Public Access Catalogue) Manual

# Resolution of Board of Management for Developing In-house Library Management Software

## KRISHNA INSTITUTE OF MEDICAL SCIENCES
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Karad, Dist. : Satara (Maharashtra State) Pin : 415110          Tel : 02164-241555-8 Fax: 02164-243272/242170
Website : www.kimskarad.in                                                      E-mail: registrar@kimskarad.in

KIMSDU/B-1(i)/813/2020                                               Date : 09.03.2020

### Extract of Minutes of the Meeting of Board of Management

Resolution of Board of Management Meeting of Krishna Institute of Medical Sciences Deemed University held on 30.06.2014.

**BOM/06/13/13-14 :    Updating of KIMSDU Integrated Library Management Software :**

Registrar informed the members about a communication received from the Library Committee regarding updating of KIMSDU Integrated Library Management Software. As the in house KIMSDU Integrated Library Management Software was developed in the year 2004, it was necessary that this version needs to be updated. After due deliberations it was resolved that the KIMSDU ILMS will be updated by the Department of ICT.

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KIMSDU/B-1(i)/814/2020                                          Date : 09.03.2020

## Extract of Minutes of the Meeting of Board of Management

Resolution of Board of Management Meeting of Krishna Institute of Medical Sciences Deemed University held on 31.03.2015.

**BOM/03/12/14-15 :   Updating of KIMSDU Integrated Library Management Software :**

Registrar informed the members about a communication received from the Library Committee regarding updating of KIMSDU Integrated Library Management Software. As the last updation was done in the year 2014 it was necessary to update the software and develop the Online Public Access Catalog (OPAC) of the in house KIMSDU Integrated Library Management Software.

After due deliberations it was resolved that the KIMSDU ILMS will be updated by the Department of ICT.

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Website : www.kimskarad.in                                      E-mail: registrar@kimskarad.in

KIMSDU/B-1(i)/814/2020                                Date : 09.03.2020

## Extract of Minutes of the Meeting of Board of Management

Resolution of Board of Management Meeting of Krishna Institute of Medical Sciences "Deemed To Be University" held on 28.12.2018.

**BOM-02/15/18-19 :  Updating of KIMSDU Integrated Library Management Software :**

Registrar informed the members about a communication received from the Library Committee regarding updating of KIMSDU Integrated Library Management Software. As the last updation of the in house KIMSDU Integrated Library Management Software was done in the year 2015, it was necessary that this version needs to be updated.

After due deliberations it was resolved that the KIMSDU ILMS will be updated by the Department of ICT.
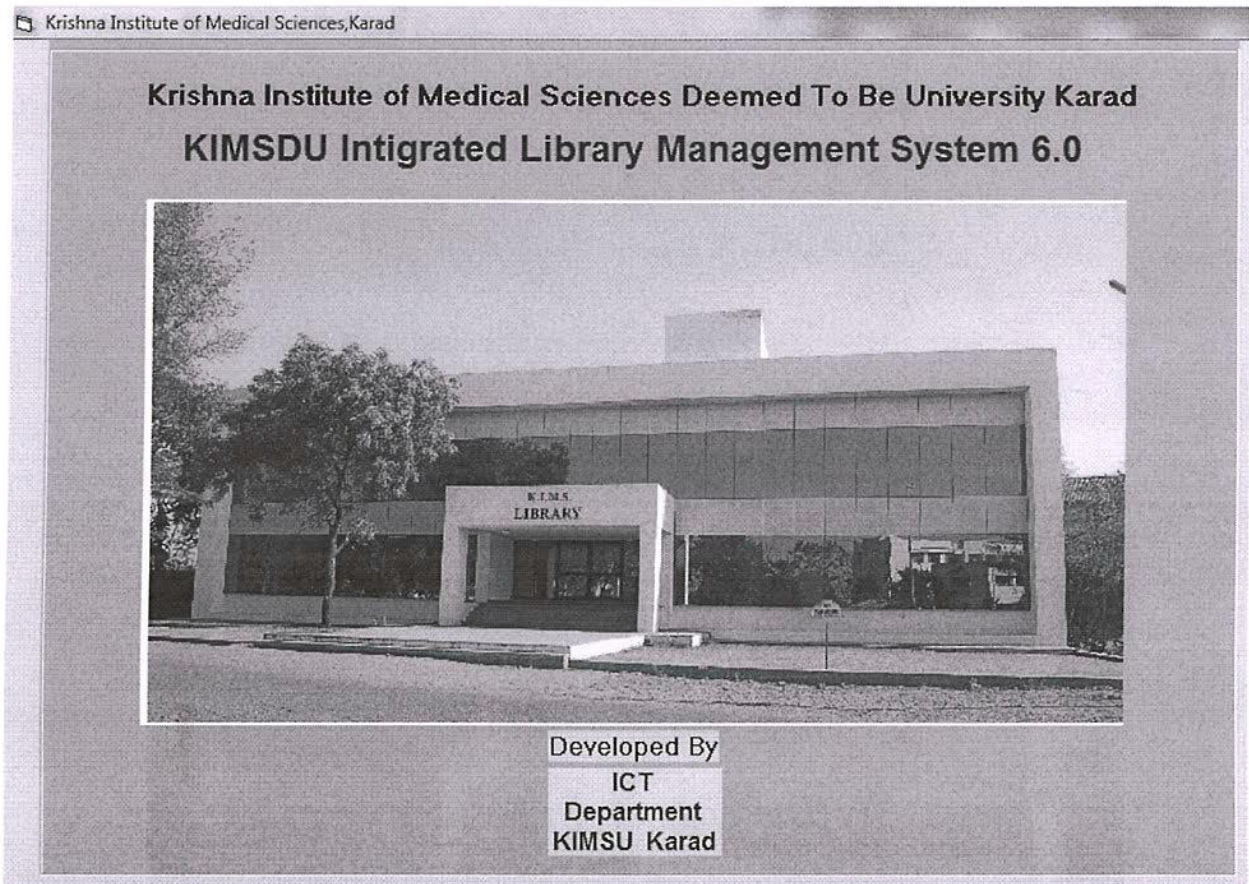
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# KIMSDU Integrated Library Management System (ILMS)

## BROCHURE



**KIMSDU Integrated Library Management System**

Library has facilities such as Library Management System (LMS) and OPAC (Online Public Access Catalogue) which is used by students & faculty for search of books by title, author, subject, status etc. And Journals search by Title, Vol. Issue no. Year, Back issues etc. All the work related to issue and return has been digitalized. All books are bar-coded. LMS is a totally integrated software package encompassing all aspects of library management. This software covers all areas within the preview of the LMS for efficient Information Management and at the same time provides a precious tool for all its members to have access to these resources at his fingertips.

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Introduction: -

The Library Management System includes two main modules of the software namely, Book details & circulation. There are 28 reports, which present information on books and its circulation. This software will reduce the paper work of the library. Any information of books and its circulation can be search easily.

Contents :

- Introduction
- Synopsis
- Software Description
- Software Requirement Specifications.

Introduction:

The Library Management System includes two main modules of the software namely, Book Details and circulation. There are 24 reports, which present information on books and its circulation. This software will reduce the paper work of the Library. Any information of the books and its circulation, user can be searched very easily. I am sure this system very useful to the Library.

Synopsis:

Name of the Application:          Library Management System
Developed By:                    Mr. Nutesh Pise, System Analyst,
                                 ICT Head, KIMSDU Karad.

Hardware Requirement: (Server)

1.    Processor Type : Intel Xeon E3 or Higher, Processor Speed : 3.0 GHz or Higher
2.    RAM : Minimum 4 GB (8 GB Recommended)

3.  Hard Disk Space : 500 GB (1 TB Recommended).

Hardware Requirement: (Client)

1.  Processor Type : Intel Core I3 or Higher, Processor Speed : 2.5 GHz or Higher

2.  RAM: Minimum 2 GB (4 GB Recommended) Free Hard Disk Space : 500 GB (Minimum).

3.  Keyboard & Mouse or suitable pointing device.

Software Requirement:

1.  Microsoft Access 2003/2007/2010

Operating System:

1.  Microsoft Windows Server 2012/13
2.  Microsoft Windows 2008/2010

Reference Books:

1. Programming in Visual Basic 6.0

   Julia Case Bradley

2. Using Visual Basic 6

   Brain Siler and Jeff

3. Software Engineering

   Ian Sommeville

4. Visual Basic 6

   Grey Perry

Validation and Error Handling:

- Unit Testing – Form Testing
- Module Testing – Project Testing
- Architectural Testing/Acceptance
- System Testing – SRD

Aim:

The software focuses primarily on vital areas of library operations to make the job easier and faster.

Plan of Execution:

- Study and collection of data flow diagram, SRS document.
- Database Designing.
- Planning interface and interface designing.
- Project coding and unit testing, creating reports using queries.
- Validation and error handling
- Unit testing and module testing, Acceptance Testing
- Summary of Project.

Objectives of Project:

I have kept in my mind following objectives while carrying out this software.

- To minimize paper work processing.
- To reduce unwanted clerical support.
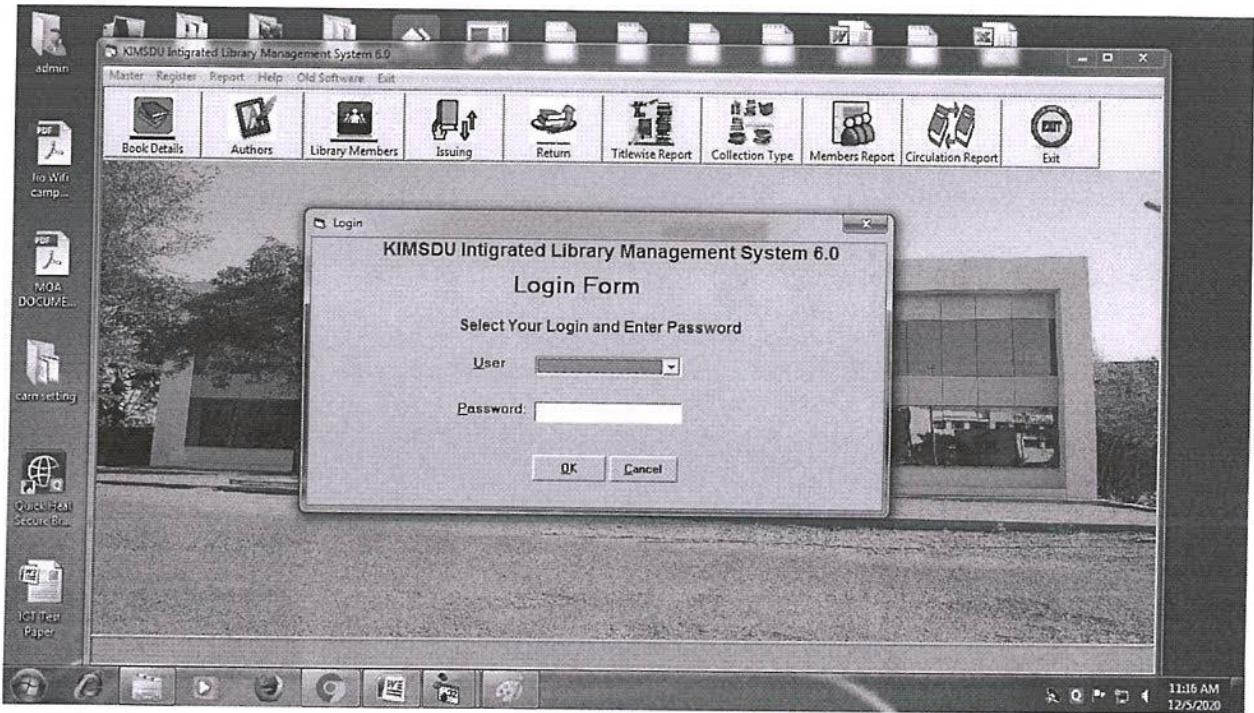- To eliminate some duplication of data entry, record keeping and other works routine.

Features:

- User friendly for operators.
- Easy access to desired information.
- Automatic report Generation.
- Search facility to view records.

Library Management Login Screen
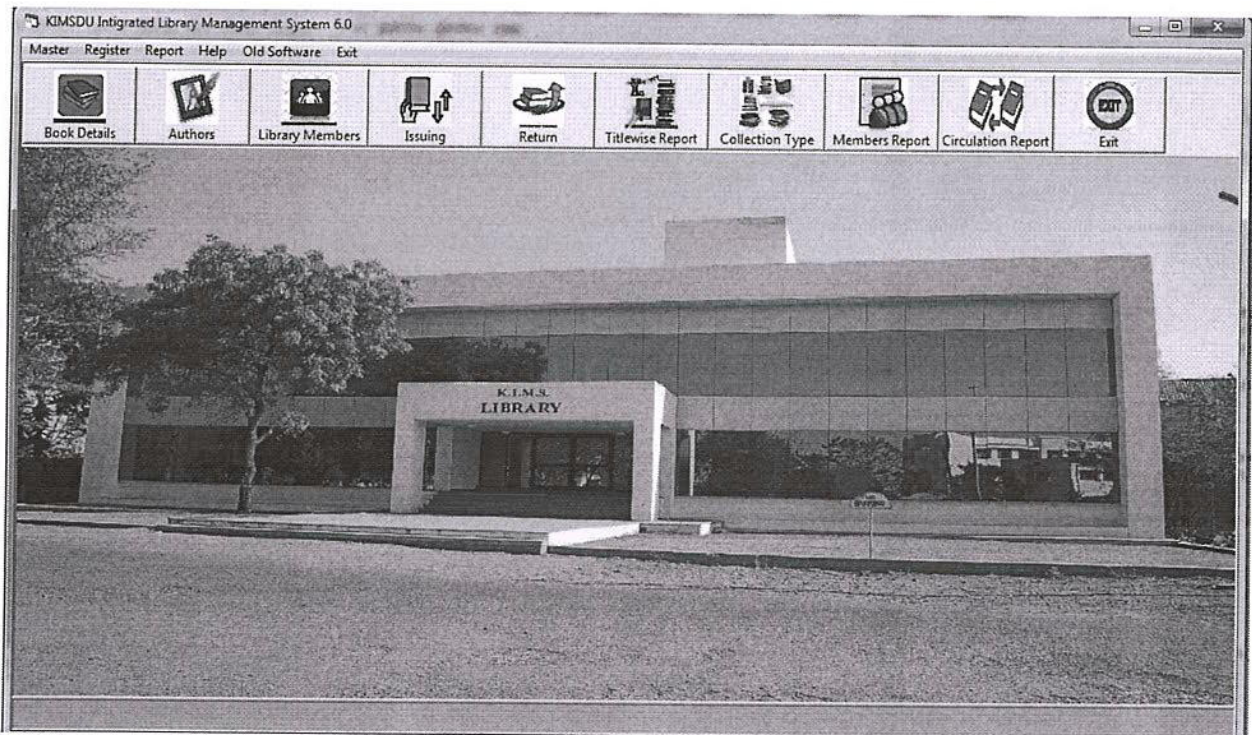


Library Management Menu Screen



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Project Description

On opening the application Splash Screen will appear as under: -

Splash Screen

After that Login form will appear

Login Form

And after finding proper user name and password Main Form will appear which will look as under: -

Main Menu Form

Main menu provide sub menus to be activated by the user.

On Master Menu: -

Master menu will open: -

- Accession
- Author
- Role
- Corporate Body
- Publisher
- Physical Description
- Series Note
- Supplier
- Keywords
- Library Members

- Recommendation
- Country of Publisher
- Place of Publisher sub menus.

- ➢ In the Accession sub menu, user can add new Book Details.
- ➢ In the Author sub menu, user can add new Authors.
- ➢ In the Role sub menu, user can add new Role such as Author, Editor etc.
- ➢ In the Corporate Body sub menu, user can add Corporate Body Author of the Books and their details.
- ➢ In the Publisher sub menu, user can add new Publisher.
- ➢ In the Physical Description, user can add new Physical Description on the each book e.g. Size, Binding, Pages etc.
- ➢ In the Series Note sub menu, user can add Series of the required books and their details.
- ➢ In the Supplier sub menu, user can add new suppliers.
- ➢ In the Keywords sub menu, user can add new keywords.
- ➢ In the Library Members sub menu user can add new members of the Library and their details.
- ➢ In the Recommendation sub menu the user can add Recommendation details of the book.
- ➢ In the country of Publisher sub menu the user can add new country of the publisher of the books.
- ➢ In the Place of Publisher sub menu the user can add new Place Publisher of the books.

Master  Register  Report  Help  Old Software  Exit

**Book Details**

Book Detail Register

# Book Detail Register

□ Similar Details    □ Marathi    Book ID [_____] [...]    Exit

| | | |
|---|---|---|
| Title | [_____] | |

Vol3/Part [____] ClassNo [____]    Vol Title [_____]    | Sr. | Bld | Vol | Ed | Year | Copy | BB |

Edition [____] ISBN [____]    Language [English]  Dept. [_____]

Year [____]    Book No [____]    Script [Roman]  Sub Dept. [_____]

Pages [____]    Class [____]    Keyword [_____] □ +

Publisher [_____] +

Place [_____]    Country [_____]

Author1 [_____] +    Series Details  +

Author2 [_____] +    Editor [_____]

Author3 [_____] +    Month [__] ISSN [____]

Collection Type [Reference ▼]  Copies [1]    Name [_____]

Maratni Title [_____]    Remarks [_____]

[ Adjust ]  [ Add ]  [ Edit ]  [ Confirm Delete ]  [ Cancel ]

**Accession Details** □ Similar Details

Acc. No [____] [Find]  F Curr [____]    Discount Rate [____]    Discount Amount [____]    Accession List for Book Title

Rec.Date [□ 05-Dec-2020 ▼]  I Curr [____]    Other [____]    Net Price [____]

Mode [Purchase ▼]  Bill No [____]    Bill Date : [□ 05-Dec-20 ▼]  Status [On Shelf ▼]

Copies [1] [0]  Supplier [_____] +

[ Save ] [ Update ] □ Change Book Title    Remarks [_____]

[____]  [ Close ]    [ Delete ]


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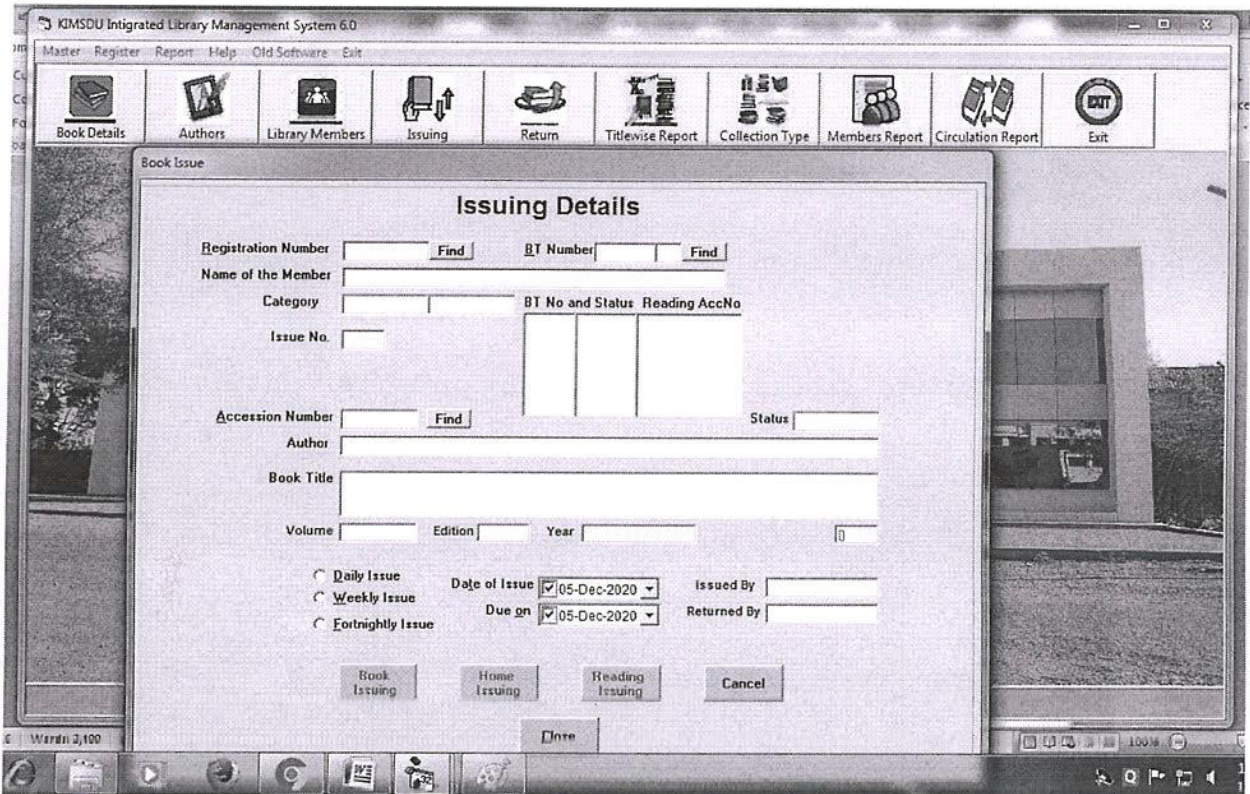"Deemed To Be University", Karad

On Register Menu: -

Register menu will open

- Book Suppliers
- Keyword, Author, Role.
- Publisher, Place, Country.
- Withdrawal.
- Issuing.
- Returning.

- In the Book Supplier sub menu user can select Accession number from combo box and Book supplier from list box. The book title will be displayed after selection of the Accession number. User can feed the book supplier for concerned books.

- In the Keyword, Author, Role sub menu, user can feed N number of Author, Role, and Keyword to the concerned books.

- In the Publisher, Place and Country sub menu, user can feed Publisher, Place of Publisher and Country of Publisher of the concerned books.

- In the Withdrawal sub menu, user can add entry of the withdrawal books.

- In the Issuing sub menu, user can add entry of the issuing book details. In the issuing sub menu, the accession number of the books will be appeared only which books are available in the library.

- In the Returning sub menu, user can add entry of the Returning books. In the Returning sub menu only issued books of accession numbers will be appeared. After the selection of the Accession number and entry of the BT number, Issued date and due date will be

displayed. Returning Date will be current date. The overdue charges will be calculated after the click on Calculate button.



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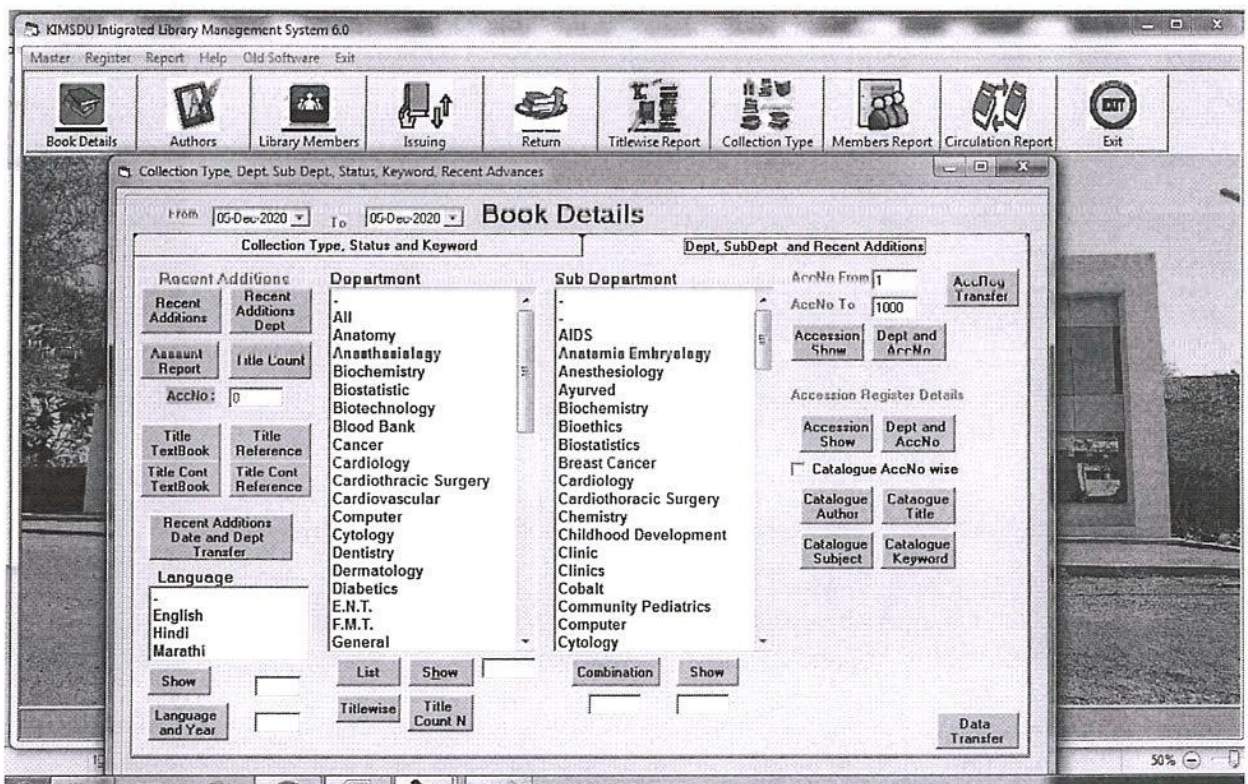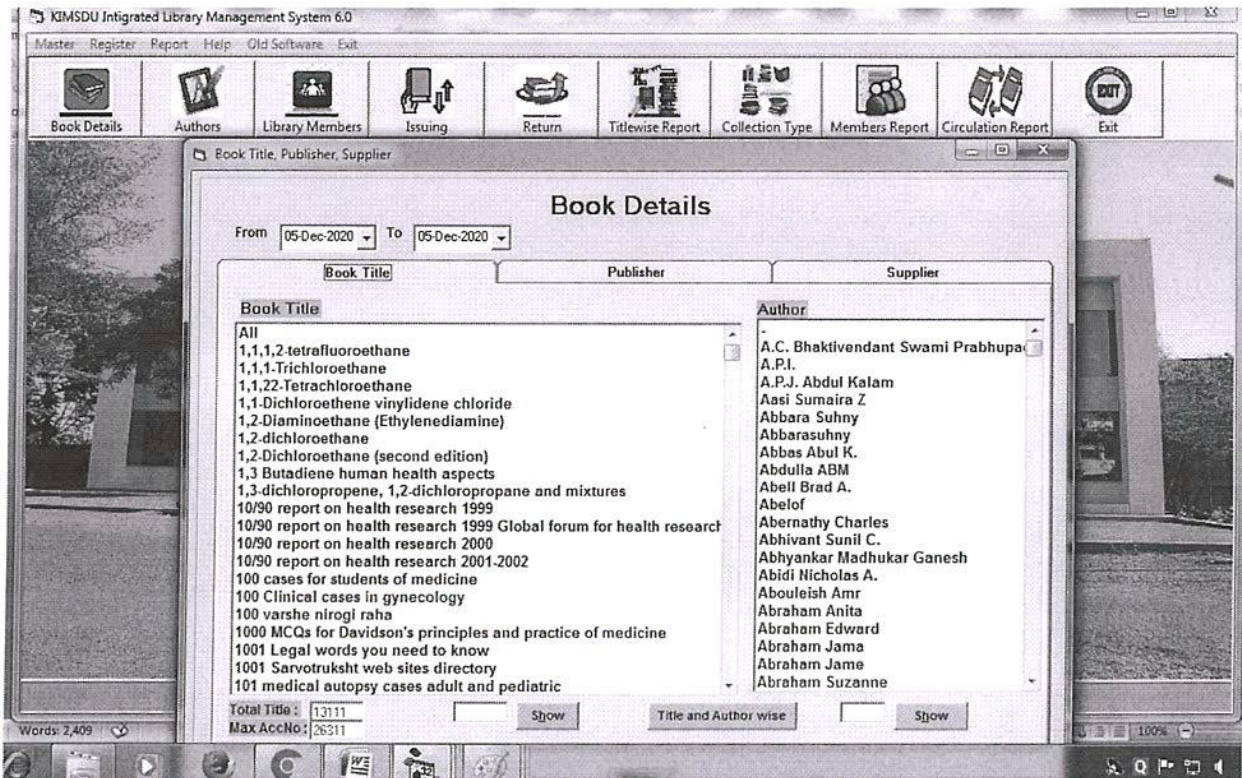Krishna Institute of Medical Sciences,
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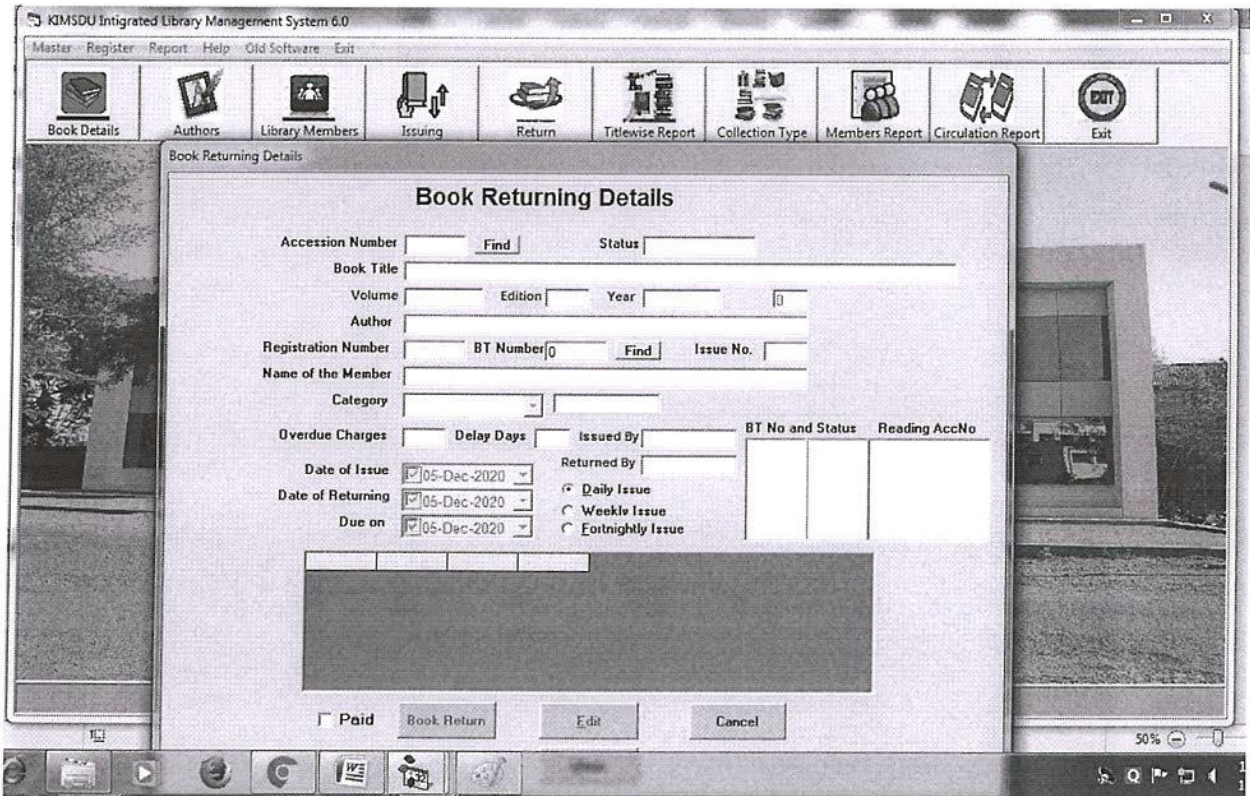
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On Report Menu: -

User can view, and print the following reports and search book details and circulation using following search engines.

- Author wise
- Title wise
- Keyword wise
- Collection Type wise
- Publisher wise
- Supplier wise
- Series Name wise
- Volume Title wise
- Book Status wise
- Recommendation Details
- Recommendation Department wise
- Recommendation Status wise
- Recommendation wise
- Corporate Body wise
- Library Members category wise (Member's personal details)
- Library Members Name wise ((Member's personal details)
- Library Members Status wise (Member's personal details)
- Book Issue Date wise
- Book Issue due date wise
- Book Issue title wise
- Library Member's Name wise Issued details.
- Library Member's Category wise Issued details.
- Subject wise Withdrawal Details.
- Accession number wise withdrawal details.
- Title wise Counting of books.
- Title wise and Author wise Counting of books.

- Title wise and Edition wise Counting of books

On Help Menu:

User can use help and view the guidelines of application.

Requirement Phase:

- Study of existing system.
- Need future reference.
- Application planning and control.
- Study of database.
- Software requirement specifications (SRS)
- Finalize functions and performance requirements.

Design Phase: -

- Design concept of project
- Details designing of various forms.
- Design of database.

Implementation Phase: -

Translate design to code using visual basic 6.0

Output is the source code – executable, readable and understandable coding.

Testing Phase: -

Static verification – Inspection.

Dynamic Verification – Program is executed and only presence of errors is detected.

Product Overview and Summary Purpose:

This SRS document is used to tell the purpose of library system to the user. It is also sometimes referred to as the Terms of reference.

Scope:

- Provide user-friendly programming interface.
- Database Designing
- Multi optional data generation and data sorting.

Product Overview:

While using this application user is expected to

- Enter the details of the book which include Date of Receipt, Accession No., Title, Language, Script, Volume, Edition, Year, Pages, Collection Type, Bill No., Bill Date, Foreign Currency, Indian Currency, Discount Rate, Other Charges, Class No., Book No., ISBN, Status.
- Enter the Author only.
- Enter the Role only.
- Enter the Keyword only.
- Enter the Supplier only.
- Enter the Publisher only.
- Enter the Place of Publisher only.
- Enter the Country of Publisher only.
- Enter the Corporate Body details which include Corporate Body, Role of Corporate Body, Place of Corporate Body, Sponsor of Meeting, Country, Meeting Name, Country of Sponsor, Place of Meeting, Date of Meeting, No. Of Meeting.
- Enter the Series Note details which include Accession No., Series Name, Series Editor, Month, Year of Publication, Pagination, Title of Volume, Vol/Part No., Volume Editor, ISSN.

- Enter the Physical Description of the books which include Accession number, pages, illustrations, size, Binding, A Mat, Biblio Note, Physical Media.
- Enter the Library Members Details which include Registration No., Date, Roll No., Name, Birth Date, Course, Year, Term, Subject, PG Course, Category, Designation, Commencement Date, Department, Parmanent Address, City, Pin Code, Present Address, Telephone No., BT No. 1, BT No. 2, BT No. 3, R.R. Card No., Library Deposit, Library Deposit R. No., Clearance Date, Member Status.
- Enter the Recommendation Details which include Department, Recommended By, Author, Title, Pref. No., Edition, Year of Publication, No. of Copies, Net Price, Publisher, Supplier, Status Approved, Mode of Addition, Received, Date of Recommendation.
- Select the Accession Number and Book Supplier for the related books.
- Select the Author, Role and Keyword for the concerned books.
- Select the Publisher, Place and Country for the concerned books.
- Enter the Withdrawal Details, which include Accession No., Reg. No. Price of the book, Replacement, Recovery, Receipt No./Date, Date of Replacement, Withdrawal No., Resolution No., Remarks.
- Enter the Book Issuing Details, which include BT Number, Reg. No., Accession No., Category, Date of Issue, Status, Due on.
- Enter the Returning Details which include Accession No., Category, Date of Issue, Due On, Date of Returning, Delay Days, Overdue Charges, Status, BT Number.

The output is

The report will show the list of books available in the library. The report generation facility is provided for the following options

- Author wise
- Title wise
- Keyword wise
- Collection Type wise
- Publisher wise
- Supplier wise
- Series Name wise

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- Volume Title wise
- Book Status wise
- Recommendation Details
- Recommendation Department wise
- Recommendation Status wise
- Recommendation wise
- Corporate Body wise
- Library Members category wise (Member's personal details)
- Library Members Name wise ((Member's personal details)
- Library Members Status wise (Member's personal details)
- Book Issue Date wise
- Book Issue due date wise
- Book Issue title wise
- Library Member's Name wise Issued details.
- Library Member's Category wise Issued details.
- Subject wise Withdrawal Details.
- Accession number wise withdrawal details.
- Title wise Counting of books.
- Title wise and Author wise Counting of books
- Title wise and Edition wise Counting of books

2.Development Operating and Maintenance Environment:

We are providing Graphical User Interface(GUI), which is easy to operate and easy for interaction by the user. One can easily take advantage of "Library Management Application System" with a very little knowledge of Computers.

3.External Interfaces & Data Flow:

a) User Interface – Graphical User Interface (GUI).

b) Hardware Interface:

o Processor

o Printer

o RAM

c) Software Interface:

Language – Visual Basic (Front End)

MS Access (Back End) SQL Language.

d) Operating System:

o Windows 98 and above.

o Windows NT

o Windows XP

e) Data Base:

Master:

o Accession

o Author

o Role

o Key1

o Corporate Body

o Country of Publisher

o Library Members

o Physical Description

o Place of Publisher

o Publisher

o Recommendation

o Series Note

o Supplier

Forms:

- o Book Supplier
- o Keyword, Author, Role.
- o Publisher, Place, Country
- o Withdrawal
- o Issuing
- o Returning

f) Reports:

- Author wise
- Title wise
- Keyword wise
- Collection Type wise
- Publisher wise
- Supplier wise
- Series Name wise
- Volume Title wise
- Book Status wise
- Recommendation Details
- Recommendation Department wise
- Recommendation Status wise
- Recommendation wise
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- Book Issue Date wise
- Book Issue due date wise
- Book Issue title wise
- Library Member's Name wise Issued details.
- Library Member's Category wise Issued details.

- Subject wise Withdrawal Details.
- Accession number wise withdrawal details.
- Title wise Counting of books.
- Title wise and Author wise Counting of books.
- Title wise and Edition wise Counting of books

# OPAC (Online Public Access Catalogue) Manual

**OPAC (Online Public Access Catalogue)** it is computer based and supported library catalogue designed to be accessed via terminals so that library users may directly and effectively search for and retrieve bibliographic records without the assistance of a human intermediary. OPAC usually allows searching by author name, title, and subject. OPAC provides access to the library's holdings via a computer monitor, replacing the traditional card catalogue.
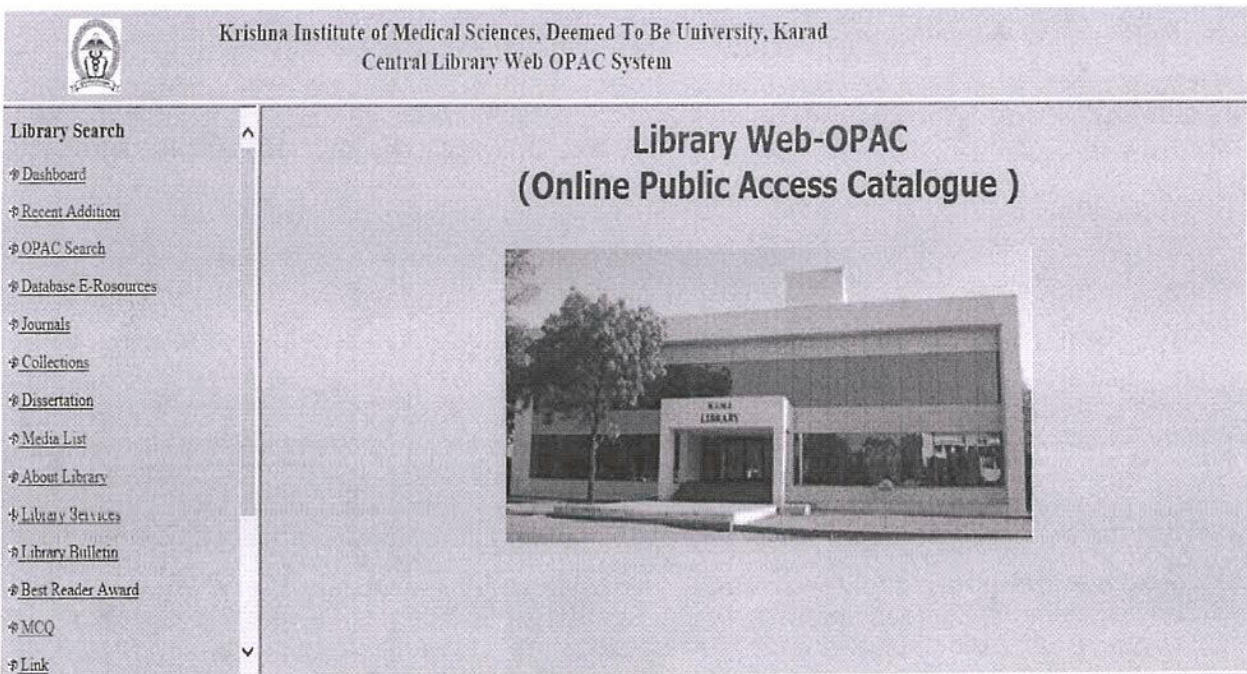


Web URL : http://192.168.40.15/dashboard/CenteralLibrary/Opac.html

Objectives :

The user can search the catalogue by author, Course, Title, subject and key word

- Following objectives while carrying out this Application.
    - Online and Access on their own mobile or laptops.
    - To Search Online information of Library Books & Journals.
    - To minimize paper work processing & reduce unwanted clerical support.

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- Features:
  - User friendly for operators.
  - Easy access to desired information.
  - Automatic report Generation.
  - Search facility to view records.



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**Central Library Web OPAC System**

| Library Search | WebOpac Books Search |
|---|---|
| Dashboard | |
| Recent Addition | Title Search : [____] Search |
| OPAC Search | Author Search : [____] Search |
| Database E-Rosources | Subject Search : [____] Search |
| Journals | Keword Search : [____] Search |
| Collections | Collection Search : [____] Search |
| Dissertation | Publisher Search : [____] Search |
| Media List | Journal Search : [____] Search |
| About Library | Accession Search : [____] Search |
| Library Services | My Info (RegNo) : [____] Search |
| Library Bulletin | |
| Best Reader Award | Search Book : [____] [Title ▾] Search |
| MCQ | |
| Link | |

You are visitor number : 12856

WEB OPAC Searching –

The Search report will show the list of books available in the library.

The Searching facility is provided for the following options –

- Title Search
- Author Search
- Subject Search
- Keyword Search
- Publisher Search
- Collection Type search
- Journal Search
- Accession Search

- My Info (RegNo)



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**Central Library Web OPAC System**

**Central Library Dashboard**

**Library Search**
- Dashboard
- Recent Addition
- OPAC Search
- Database E-Rosources
- Journals
- Collections
- Dissertation
- Media List
- About Library
- Library Services
- Library Bulletin
- Best Reader Award
- MCQ
- Link

Library Dept wise Books Status

- Anatomy
- Anesthesiology
- Biochemistry
- Blood Bank
- Dermatology
- E.N.T.
- F.M.T.
- General
- Legal
- Medical Education
- Medicine
- Microbiology

You are visitor number : 12857

**Library Search**
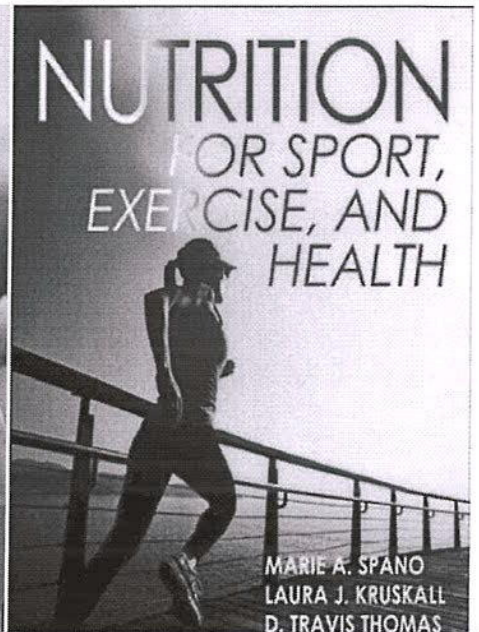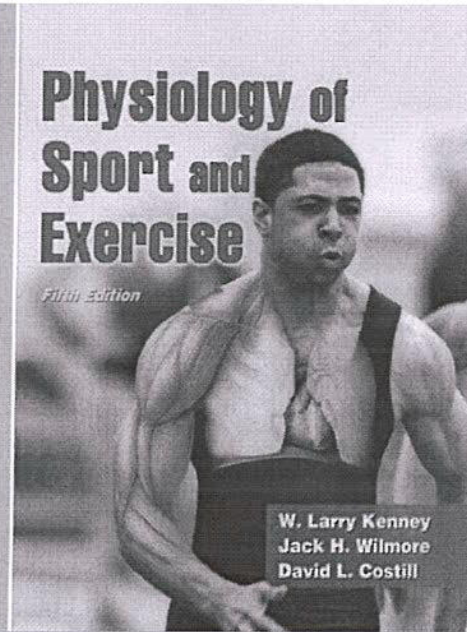
- Dashboard
- Recent Addition
- OPAC Search
- Database E-Rosources
- Journals
- Collections
- Dissertation
- Media List
- About Library
- Library Services
- Library Bulletin
- Best Reader Award
- MCQ
- Link

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