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This document provides details of software requirement specifications for implementation of ERP software at DKTE Society's Textile and Engineering Institute, Ichalkaranji. The module wise requirements mentioned in the document are tentative, requirements may change. Detail requirements will be provided during requirement analysis phase of implementation. The requirements mentioned in this document may be referred for efforts estimation.

ABOUT INSTITUTE

The Textile & Engineering Institute enjoys a unique and prominent place amongst the institutions that are engaged in education, training, research and consultancy in various disciplines of Engineering in India. It has been catering to the needs of the industry for the past twenty five years. The link of the institute with the industry has been cultivated all these years & it has already carved a niche for itself amongst the reputed engineering institutes in the country, emphasizing value based technical education to the aspirants who wish to enter the area of corporate world and be on the helms in the twenty first century.

The genesis and growth of the institute was a sequel to the intense desire and support from the powerful co-operative sectors. Keeping in view the fabric of social responsibility, Mr. K. B. Awade, Former Member of Parliament & Educationist, Philanthropist and a staunch supporter of the co-operative movement, founded D.K.T.E. Society's Textile and Engineering Institute at Ichalkaranji in 1982. Ichalkaranji town, popularly known as 'Manchester of Maharashtra' is one of the prominent centers of decentralized textile sector of India. Located 29 miles from Kolhapur city, it is close to rail and bus terminals, banking facilities, restaurants and excellent shopping. The Institute has been housed on a spacious campus in the heart of Ichalkaranji city, with many buildings designed and equipped with ultra modern equipments. The main building is majestic Palace, which is a unique historical monument, best suited to secure requisite effects of simplicity and dignity. Our Institute has state of the art IT infrastructure comprising

- High speed internet facility.
- 1 GB campus wide optical fiber network.
- WI-FI connectivity.
- Video Conferencing facility.

COURSES OF STUDY

The Textile and Engineering Institute offers following courses of study:

Courses	Degree Awarded	Specialization	Intake	Accreditation Status	Year of Starting	Duration (Yrs.)
Diploma	D.T.M.	Textile Manufactures	60	Accredited 10-09-2004 to 09-09-2007	1982	03
	D.T.T.	Textile Technology	30	----	1995	03
	D.F.C.T.	Fashion & Clothing Technology	30	Not Eligible for Accreditation	2008	03
Under - graduate	B. Text.	Textile Technology	60	Accredited 12-12-2003 to 11-12- 2008	1983	04
	B. Text.	Man-Made Textile Tech.	30	1 st Accredited 12-12-2003 to 11-12-2006 2 nd Accredited 19-07-2008 to 18-07-2013	1983	04
	B. Text.	Textile Plant Engg.	30	1 st Accredited 10-09-2004 to 09-09- 2007 2 nd Accredited 29-05-2009 to 28-05-2014	1984	04
	B. Text.	Textile Chemistry	60	Accredited 12-12-2003 to 11-12-2008	1987	04
	B.Text.	Fashion Technology	30	Not Eligible for Accreditation	2006	04
	B. E.	Electronics Engg.	60	1 st Accredited 12-12-2003 to 11-12- 2006 2 nd Accredited 19-07-2008 to 18-07- 2011	1989	04
	B. E.	Mechanical Engg.	60	1 st Accredited 12-12-2003 to 11-12-2006 2 nd Accredited 19-07-2008 to 18-07-2011	1992	04
	B. E.	Computer Science & Engineering	60	Accredited 19-07-2008 to 18-07-2011	1999	04
	B.E.	Information Technology	60	----	2001	04
	B.E.	Electronics & Tele-Communication Engg.	60	Accredited 09-05-2009 to 28-05-2012	2002	04
Post - graduate	M. Text.	Textile Technology	18	Accredited 29-05-2009 to 28-05-2014	1997	02
	M.Text.	Textile Chemistry	18	Not Eligible for Accreditation	2006	02
	M.Text.	Technical Textiles	18	Not Eligible for Accreditation	2009	02
	M.B.A.	Master of Business Administration	60	Not Eligible for Accreditation	2008	02
	MBA (Textile)	Master of Business Administration	60	Not Eligible for Accreditation	2009	02

Software Requirements Specifications:

Institute is planning to automate the entire campus activities. The modules for automation of various sections in the Institute are as under:

- **Admission Section Automation**

- Decentralized Admission
- Student Information Capture
- Unique Identification of Student
- Support for Multiple Courses
- Fee Payments and Tracking Money-in-hand, Loans and Scholarship
- Provision for Post Dated Cheques
- Inter-branch Transfers at Second year
- Automatic Receipt Generation
- Direct Link with General Ledger
- Updating Student Information
- In-Built E-mailing Engine
- Form sold search
- Enquiry list for First Year
- Merit list generation
- Enquiry list for Second Year
- Second year internal transfer

- **Student Section Automation**

- Student search - Year wise, Branch wise, Category wise, male, female, Blood Group wise
- Roll number assignment
- Personal Information Changes
- Student Specific Queries
- Group E-mailing
- Co curricular activities
- Sports activities
- Admission Slip-Year wise, and Certificates - LC, Attendance

- **Establishment Section Automation(Human resource/ Payroll)**

- Employee Information
- Salary Management
- Leave Management
- Employee Claims
- Faculty Competency Matrix
- Reward Points

- Awards /Credentials
 - Promotions details
 - Training
 - **Accounts Section Automation**
 - Centralized Control
 - Organizational Bank Account Links
 - Branch Level Entry of Transactions
 - Double Entry Accounting
 - System Access Controls
 - Modes of Money Transactions
 - Transaction Listing
 - General Ledger
 - Listing of Account Heads
 - Centralized Bill Payments
 - Teller System
 - Payments in Instalments
 - Provision for PDCs
 - Salary Management
 - End of Day Facility
 - Bad Debts and Local Outstanding
 - Bank Balance Statement
 - Cash Flow Statement
 - Trial Balance
 - Staff Claims
 - Staff Advance
 - Service Tax Statements
 - **Store(Inventory Management)**
 - Inventory Information Capture
 - Tracking of Stock Movement
 - Department-wise Inventory Status
 - Inventory Register
 - Authorized Supplier Information
 - Querying Engine
 - Inventory Control / Re-order Level Reminders
 - Supplier/vender registration
 - Comparative statement generation
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- Purchase order generation
- Material write off procedure
- Reminder to supplier
- **Time Table Module**
 - Branch wise - Year wise time table
 - Faculty, Lab wise, Lecture Room wise time table
 - Work Load - Theory, Practical, Tutorial
 - Batches for Practical, Tutorial, Project
- **Internal Examination and reporting**
 - Internal, External POE and OE examination schedule designing
 - Internal test marks entry
 - Internal assessment marks entry, Teamwork Internal OE and POE marks entry
 - Report Generation
- **Result Analysis**
 - Student marks entry/import from text or XML file.
 - Student mark sheet management
 - Yearly/semester/branch wise student record
 - Consolidated Yearly/semester/branch wise student record
 - Passed/failed/topper student report
- **Attendance Management Solution**
 - Class wise Attendance Details
 - Subject wise Attendance Details
 - Lecture-Wise Attendance Details
 - Practical-Wise Attendance Details
 - Faculty Attendance Tracking
 - OMR Scanning of Attendance Records or Bio-metric interface
- **Hostel Module**
 - Hostel Registration
 - Hostel Details
 - Hostel Structure
 - Hostel Admission Form
 - Student Search
 - Hostel Allocation List
 - Room Assignment and Room Reallocation
 - Guest Details and Medical Schedule

- **Training and Placement Management Module**
 - Placement visit list
 - Placement schedule generation
 - Placement report generation
 - Placement offers report
 - **Portal for Students, Parents, Management and any other stake holder**
 - Portal must provide data of student like attendance, performance in examination
 - Integration with www.dktes.com
 - **Alumni Module and integration with Institute's website www.dktes.com**
 - Alumni registration
 - Alumni records maintenance
 - Alumni Search
 - **Academic Management System(planning and Scheduling)**
 - Dynamic Schedule Designing
 - Faculty Planning
 - Course/Concept Designing
 - Batch Designing
 - Faculty Schedules
 - Daily/Weekly Batch Schedules
 - Alternate Schedules
 - Duplication of Schedules
 - Reward Point Statements
 - Colour Coding for Differentiation
 - Printing of Schedules
 - Operational Planning
 - **Module for communication with students, parents and others (Group E-mailing or SMS)**
 - Sending group Email/SMS to students.
 - Storing template messages
 - **Budget Allocation Module**
 - Yearly budget allocation
 - Department wise budget allocation
 - Function head for budget allocation
 - Expense management against function head budget
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- **Module for Mentorship Scheme (Unique system implemented by DKTE for monitoring student's progress and performance)**
 - Storing Student information like progress in examination or examination performance data can be taken from result analysis module
 - Editing student information
 - Searching a student
 - Assignment of student to Mentor
 - Reports Generation
 - **Faculty feedback by students and report generation**
 - Student feedback questionnaire generation
 - Feedback analysis
 - Feedback report generation and analysis
 - Must be complete programmable module
 - **Other Requirements**
 - Inward Automation or Inward section
 - Outward Automation or outward section
 - Request application for Xerox/Printing facility
 - Request application for Vehicles Bus

Miscellaneous Requirements

- Information System must be highly secure and fault tolerant.
- Multi-user application environment
- Browser-based user interface
- Integration with SLIM software used by the Institute for library automation
- Online Payment of Fees (for parents)
- Integration with Institute's website www.dktes.com
- Printed user manual must be provided.
- Printed deployment guide must be provided.
- Integration with RFID or any other device.

Note:

- *All the modules mentioned above must be integrated.*
- *The module wise requirements mentioned above are tentative, requirements may change. Detail requirements will provided during requirement analysis phase during implementation. The requirements mentioned above may be referred for efforts estimation.*

Development Platform

The software must be implemented using the recent technologies like Asp.net, VB.Net, C# or technologies from Sun Microsystems or any other technology company.

Training

Vendor must provide training at DKTE to all the concerned employees for the sufficient number of days. The vendor must train concerned people on the features and usage of the software.

Support from DKTES TEI

- A single point of contact will be made available from DKTE during the entire period of requirement analysis, implementation of the software. The single point of contact will organize the necessary resources at D.K.T.E
- Team comprising of members from various departments/section will be formed for successful implementation of the solution. Team will interact with the vendor as and when required for requirement analysis.
- Network Administrator will help the implementation team for study of IT infrastructure, deployment or configuration of the network if required.
- Hardware and software will be made available by DKTE as per the requirements.
- DKTE will carry out changes in the IT infrastructure if suggested.

Terms and Conditions

1. Pricing model must include efforts for analysis of software requirement, implementation, customization of all the modules, and training (during implementation and post implementation) for required number of days and support after completion of implementation. Also it must include traveling and other expenses in case of onsite support.
 2. DKTE will be liable to pay only the price quoted for the modules mentioned.
 3. Vendors must quote price for all the modules mentioned in this document along with Annul Maintenance Charges (AMC) after the warranty period. AMC charges must include customization charges, up-gradation, support, and training if required.
 4. Two years warranty from the date of completion of implementation.
 5. The pricing model must include all the government duties and taxes.
 6. Payment schedule will be decided during the agreement.
 7. DKTE will not pay any interest on due payment.
 8. The pricing model must include data migration charges if any.
 9. Vendors are expected to provide the implementation schedule and follow the deadlines in the schedule during the implementation.
 10. In case of cancellation of project vendor has to refund all the payment made by DKTE, since it will result direct loss to DKTE.
 11. All disputes are Subject to **Ichalkaranji Jurisdiction**.
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