



Agenda

- UET, Lahore as Domain Expert and its software Evaluation
- KICS intro with services and its clientage
- UMS intro with services and its clientage
- UMS performance and product lines
- All in one ERP solution
- UMS Project Implementation approach



UET, Lahore and Education Industry Processes

Education Industry Processes and Its Continuous Improvement

- UET Started in 1921. Started offering bachelors degree in engineering disciplines in 1962. In seventies started offering Master and Later PhD.
- UET is the only example in Pakistan who started the developed the processes from start in education industry.
- UET is not only responsible for continues quality improvement of Education Industry processes, also successfully implemented these in 19 distinct institutions
- UET also believe in concept of exporting and helping other universities & colleges in implementing today's complex processes of education industries, specially semester system and Outcome Based Education.
- UET core process skills are Process Management, Process Improvement, Process Design, Analyze & Solve Problems, Communicates & Persuades, Stakeholder Engagement and Team working

Process execution with help software solutions

- UET mostly prefer to use their own Reasearch and Development culture to solve different problem statements.
- UET always assign cited task to KICS.
- KICS is providing number of IT and specially software solutions to UET since last 14 years.
- Software evaluation started with Network based Term system, then carried forward with dynamic & robust web and ERP solutions. Which includes Term System, Admission Portal, UAMS and UET OBE System.
- In end of Sep-2017, KICS is going to add a new product line i.e EDU CAMPUS with an ERP which will help to evolve Pakistan education industry with dynamic processes specially OBE.
- UET always provide a key role as Process Owner and Domain expert in these software solutions.



KICS

AL- KHAWARIZMI INSTITUTE OF COMPUTER SCIENCE
UET LAHORE



KICS is one of the leading computer science research centers in the country.

KICS is based in Lahore Pakistan.

Sub Department of UET, Lahore

More than 14 years of industry experience

With 300+ employees

Director: Dr. Waqar Mahmood

18 Applied Research Labs

4 Technology Center

KICS (18 Research Lab & 4 Technology Centers)

Wireless, 3G & 4G	Graphics, Website and Gaming	Systems & ERP	Technology Centers
<ol style="list-style-type: none">1. High Performance Computing and Networking Lab (HPCNL)2. Wireless Systems Research Lab (WSRL)3. Next-Generation Wireless Networking Lab (NWNL)4. Radio Frequency Research Lab (RFRL)	<ol style="list-style-type: none">5. UET Game Studio6. Mobile App Development Lab (M-Lab)7. Mentor Graphic Embedded System Lab8. Center for System Simulation and Visual Analytics Research (C-SVAR)	<ol style="list-style-type: none">9. University Management System (UMS) Lab10. Software Systems Research Lab (SSRL)11. Computer Vision and Machine Learning Lab12. Embedded Systems & Enterprise Software Solutions Lab (ESESS)13. Bioinformatics Research Lab (BRL)14. Alternate Energy Research and Innovation Lab (AERIL)15. Internet of Things (IoT) Lab16. Industrial Automation and Control Lab (IACL)17. Energy Efficiency and Conservation Lab (EECL)18. Humanitarian Lab	<ol style="list-style-type: none">19. HUAWEI Telecom and IT Center20. Center of Language Engineering21. Technology Commercialization & Incubation Center22. Pearson VUE Testing Center

KICS Clientage



University Management System (UMS) Lab

- Under the umbrella of research and development culture of KICS, UMS is responsible for development, implementation and support services of ERP and Non ERP solutions in UET, it's all campuses, affiliated colleges, customers and KICS itself.
- UMS providing software services in different business areas. These are Admission, Academics, Examination with Audit, Attendance, Student Portal, Campus Outcome Based Education (OBE), Dues, Finance, HRM, Procurement, Survey and Custom solutions.
- In the end of Sep-2017, UMS will introduce new product line (EDU CAMPUS) in ERP (Odoo). This product is developed for Pakistani Education Industry so that they can enjoy the stable, economical and easily manageable campus solution as per HEC, PEC and international Accreditation Standards (ABET) with best business processes of ERP.

UMS Customers Portfolio

1. University of Engineering and Technology Lahore
2. University of Engineering and Technology Lahore (Kala Shah Kaku Campus)
3. University of Engineering and Technology Lahore (Faisalabad Campus)
4. Rachna College of Engineering & Technology, Gujranwala
5. University of Engineering and Technology Lahore (Narowal Campus)
6. NFC Institute of Engineering and Fertilizer Research, Faisalabad
7. Swedish College of Engineering and Technology, Rahim Yar Khan

8. Sharif College of Engineering and Technology, Lahore
9. Quaid-e-Azam College of Engineering & Technology, Sahiwa
10. Government College of Technology, Railway Road Lahore
11. Government College of Technology, Rasul
12. Government College of Technology, Faisalabad
13. Quaid-e-Azam College of Engineering & Technology, Pattoki
14. Sir Syed College of Computer Science
15. Ata Institute of Engineering and Technology, Wazirabad

16. Chenab College of Engineering & Technology, Gujranwala
17. Dr. A.Q Khan Institute of Technology, Mianwali
18. Islam College of Engineering & Technology, Sialkot
19. Muhammad Nawaz Sharif University of Engineering & Technology, Multan

UMS User Analysis

Admission	<ul style="list-style-type: none">• 5 Campuses• No of Users: 42000
Academics	<ul style="list-style-type: none">• 5 Campuses, 14 Affiliated Colleges• No of Users: 50000 approx.
Examination	<ul style="list-style-type: none">• 5 Campuses, 14 Affiliated Colleges• No of Users: 50000 approx.
Attendance	<ul style="list-style-type: none">• 5 Campuses, 14 Affiliated Colleges• No of Users: 6000 approx.
Student Portal	<ul style="list-style-type: none">• 5 Campuses, 14 Affiliated Colleges• No of Users: 40000 approx.
OBE	<ul style="list-style-type: none">• 5 Campuses, 14 Affiliated Colleges• No of Users: 6000 approx.
Dues and Finance	<ul style="list-style-type: none">• 5 Campuses, 14 Affiliated Colleges• No of Users: 6000 approx.
HRM	<ul style="list-style-type: none">• 5 Campuses, 14 Affiliated Colleges and KICS• No of Users:: 6000 approx.
Survey	<ul style="list-style-type: none">• 5 Campuses, 14 Affiliated Colleges• No of Users: 6000 approx.

Services Offered by UMS

System Administration and Cloud Services

Server Management
Desktop Management
Security and Backups
Deployment

Support Services

Help Desk
Email and Chat
Back Office support
Remote Support
Source Code Versioning

Software Development Services

Requirement Engineering
Design Engineering
Story and Test Case Writing
Quality Assurance
Development

Training and Capacity Building

Organized Training Session
Content Writing
Help Portal
Video recoding

OBE

Complete OBE implementation
among 5 top universities in Pakistan

Admissions

Manage 42000 applicants and 3500
students in getting admission each year
for 5 Campuses.

CAMPUS

Campus ERP Solution Implementation
in 19 Universities and Colleges

Term System

Admission

UET OBE System

UAMS

EDU CAMPUS

1. Term System - UMS Products Line

- It's the first system developed by UMS team. It supports pure examination system for term and annual.
- This system covers all the examination processes like data entry of students profile, academics, assessments and results. This system also provide a complete scrutiny and notification system which further support the data audit and consistency.
- Number of reports help the users to manage its operational responsibilities. Few major reports are DMC, scrutiny, notification, Award List, Pass Notification, Fail Notification, Thesis Notification, Merit List, Comprehensive Result report.
- Around 18000 students have been entertained in this system.

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2. UAMS - UMS Products Line

- It's the second system developed by UMS team. It supports pure examination system with extension of other academics processes for semester.
- This system covers all the features of examination for Semester as well as other detailed processes of campus like academics, attendance, scheduling and teacher profiling. This system was the first web based system in UET and its campuses along with affiliated colleges.
- Around 30000 students have been entertained in this system.

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3. Admission - UMS Products Line

- The third product from UMS team, which supports all the processes of student recruitment. This is also a web application.
- In this system, students can enroll themselves for number of programs as per his own defined preferences. This system covers all the complex admission process for 5 campuses.
- Around 42000 applicants are entrained in this system and 3500 students get admission each year.
- This is integrated with UAMS and UET OBE System via restful web services.

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4. UET OBE System – UMS Products Line

- This system was developed to meet the modern requirements of the campus. Main core requirements are Outcome Based Education integrated with HEC semester system and Student Portal. This system is developed in Open Source ERP (Odoo).
- This system supports number of business modules, like academics, examination, attendance, class scheduling, Outcome Based Education, Dues, Finance and HRM. All the processes developed are as per UET SOPs.
- Currently this system is supporting all the campuses requirements for last 3 sessions.
- PEC accreditation has been executed for each engineering discipline twice.
- This system supports all the users (Students, Faculty, and administration staff) of 5 campuses and 14 affiliated colleges via cloud services.

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5. EDU CAMPUS – UMS Products Line

- This economical and easily manageable ERP system will be available for all Pakistan Education Industry after Sep 2017.
- This product is developed in an open source ERP i.e. Odoo. The modules for this products are Configuration, Academics (integrated with Odoo HRM), QEC with Survey, Examination, Hostel, Transport, Dues (for Academics, Hostel, Transport and integrated with Odoo Finance) and Student Portal with student services.
- Academics, QEC and Examination support complete HEC, PEC, OBE, Blooms Taxonomy and International Accreditation Standards.
- Odoo itself offers 4000 apps including Finance, HRM, SCM, CRM, Ecommerce, Web Site (CMS) and much more.
- In next release of this product, will offer learning management system (LMS), Jasper Server Integration for BI, Entry Test and Admission processes.

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Open Source at a Glance



Alfresco meets all CRM Needs
For 7 million users
At 1300 Companies



Word press is the most used blogging platform of 2013
Servicing 60 million websites



Android leads the market today
With 81% OS market Place
And 1 billion devices



Odoo is the largest growing ERP platform
present in 110+ countries
trusted by millions of users

odoo



On Demand Open Object



2,000,000
users



1500
developers



4000
apps



620
partners



120
countries

Odoo Key Features

Odoo is an **web based** open-source system that:

Has been released under the **AGPL** license

Has no licensing cost

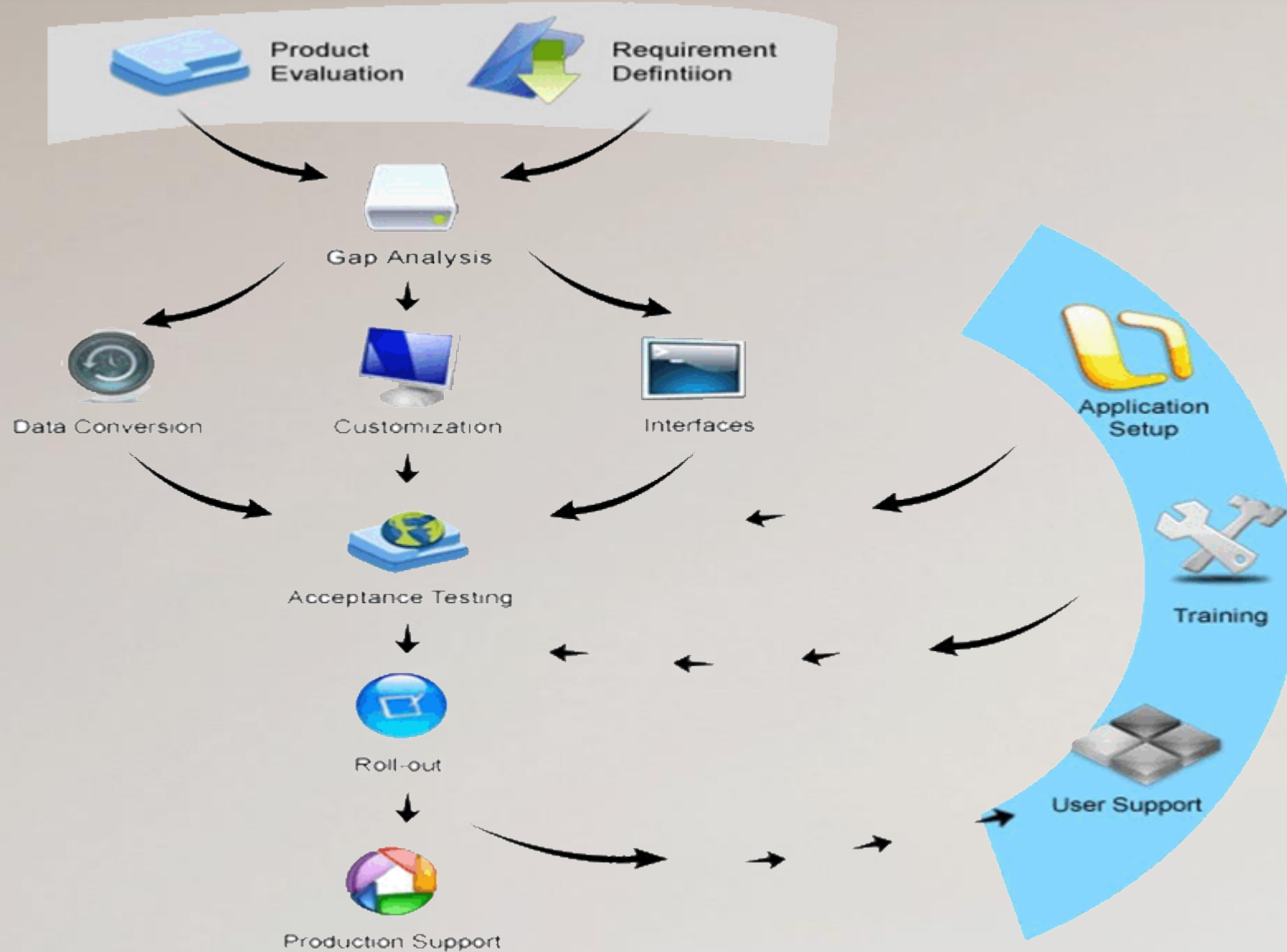
Works with **open source dependencies**

Offers **ease** of customization

Based on **modular** technology

Trusted by **millions of users** world-wide as a **one-stop solution**

UMS Project Implementation Approach



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Help others achieve their dreams
and you will achieve yours

Les Brown

(World's Leading Motivational Speaker)