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Email:

purchase@elabengineeringequipments.com Phone: +91-9811375383

Product Name:

Digital Learning Content And Software Package

Product Code:AutomobileLab0007



Description:

Digital Learning Content And Software Package

Technical Specification:

Classroom Management System (CMS) should be new generation of software that assists teachers in utilizing and managing a computer multimedia lab or 1:1 classroom. It transforms traditional classrooms into educational platforms which allow students to develop 21stCentury skills and teachers to manage an ICT rich classroom without compromising the way they naturally would like to teach. CMS should utilize cutting edge features which allow for a broad range of learning techniques and communication methods, while harnessing features such as screen spying, broadcasting, computer/screen locking, file sharing, and many more to maximize earning effectiveness in a 21st Century classroom.

Specification:

CMS should support additional apps which are able to be purchased directly from the website provider administrator. While, not a comprehensive platform, these apps help educators who want to bring specific 21stCentury Elements into the classroom. Examples of these apps are:

Polling

Using any device, teachers will be able to immediately poll their students to get real time responses and assessment.

Digital Whiteboard

Teachers can use their device to replicate many of the same features as a digital whiteboard at a fraction of the cost. Now a teacher can use ICT in their demonstrations with minimal infrastructure.

Exam Creation: Teachers can build exams for students using exam authoring tools Exam Dissemination:

Teachers can digitally disseminate exams to their students and retrieve them for automatic scoring.

Compatibility:

Windows 7

Windows 8

Windows XP

Linux

Android mobile devices

Local- Not online and No Server Needed

Devices Control Features

Learner Monitoring Features

Device Sharing Features

Utility Features

Learner Features Summary

Administration

Differentiated Instruction

Learning Management System (LMS)

Features:

The LMS should be a comprehensive education tool designed to enrich courses by embedding digital Content and assessments into traditional teaching and learning. A full suite of content creation tools is included to enable instructors and instructional designers to enhance their courses with customized digital content. Scheduling, communication, and web 2.0 tools allow multiple options for students and instructors to meet the diverse needs of learners in the 21st Century.

The LMS should incorporates many instructor friendly features which enable complete course delivery or supplemental course materials. Instructors are able to design their own curriculum, modify content, and import SCORM compliant modules for students to view. Instructors have complete control over content, assessment and grading scales. The LMS content delivery system tracks individual students' progress as they are guided through technology rich curriculum, which enhances 21st Century Skill competency, in addition to ensuring students meet the required learning outcomes of the course.

The LMS should be a versatile learning platform which supports 21st Century learning models such as blended learning, and flipping the classroom. This flexibility enables institutions to create the most valuable learning opportunities possible and to maximize student capacity for independent learning.

Specification:

WEB 2.2 Tools

Curriculum Development

Instruction Design

Content Delivery

Automotive and Transportation Technologies

The Digital Content for Vocational Learning provides extensive courses addressing core TVET areas. This digital content should be designed to meet the needs of students in the 21st Century by giving them opportunities to learn in alternative ways, "anytime- anywhere". Content can be deployed on the Learning Management System or CD Rom. Elements of the content such as simulations or assessments can be deployed using the Classroom Management System for real-time learning with the content. In short, Digital Content for TVET should be designed to be used in a variety of situations.

The package is inclusive of:

Theory Presentations
Animations of principles
Simulations for exploration
Videos of real systems

Lab Tasks for hands on exercises

Investigations activities

Quizzes to test students knowledge

Assessments of learning objectives

E-learning package contents:

Basic Engine Fundamentals:

Engine Fundamentals

Petrol Engine Combustion Cycle

Petrol Engine Components

Diesel Engine Combustion Cycle

Diesel Engine Components

Diesel Engine Combustion

Fuel Delivery System

Engine Cooling System

Engine Lubrication System

Valve Trains

Automotive Electrical and Electronic Systems

Basic Automotive Electrical Circuits

Ignition System

Alternator

Starting Motor

Starting and charging Circuit

Lighting Systems

Electrical and Hybrid Vehicles

Safety Restraining Systems (SRS)

Air Conditioning and Heating Systems

Automotive Air Con and Heating system

Manual Transmissions and Axles

Clutch System

Manual Transmission

Front Wheel Drive and Transaxles

Front Wheel Drive Systems

Four-Wheel-Drive Systems

Automatic Transmissions and Transaxles

Automatic Transmission Inspection and Refitting

Propeller Shafts and Differential Gear

Drive Shafts

Differential and Rear Drive Systems

Brake Systems

Hydraulic Brake System

Power Assisted Hydraulic Brake System

Disc Brake System

Drum Brake System

Electronic Brake Systems

ABS Procedures

Traction and Stability Control

Steering and Suspension Systems

Road Wheels and Tires

Wheel Geometry

Steering System

Hydraulic Power Steering Systems

Electric Power Steering Systems

Suspension Systems

Self-Levelling and Ride-Controlled Suspension

Diesel Fuel Systems

Fuel Delivery System

Diesel Injection Pump

Electronic Fuel Injection System, CDRI

Petrol Fuel Systems

Fuel Delivery System

Fuel pumps

Electronic Fuel Injection System, EFI

Engine Management Systems

Engine Speed Sensor System

Idle Speed Sensor and Control Syste

Engine Management System

Exhaust Gas Emission Control

Supplemental Materials

Math for Technicians:

Arithmetic, Fractions and Decimals

Indices, Factors, Algebra and Trigonometry

Career and Employment Skills

Workshop Safety and Accident Prevention

Science for Technicians:

Force and Energy

Matter and Materials

The package should have software of 1 server License and 20 student license. Supplied complete with Hardware of 1 number server Computer of specifications: 4 core, 3.1 Ghz, 4Gb Ram, 1Tb Hard-disk, complete with Keyboard Mouse and Display minimum 15.6" with Windows 8 or Latest Windows Operating system. Supplied complete with 20 student laptops with Minimum specifications: Intel (or equivalent) i3 Display 15.6", 4Gb Ram Memory, 500 Gb hard-disk With Windows 8 or Latest Windows Operating System.

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