

Order Code-22235575.4.75 **21st century learning system for:** MechanicalEngineering Foundation Programs

Classroom Management System (CMS):

Description: The CMS transforms traditional classrooms into modern educational platforms, leveraging computer multimedia labs or 1:1 classroom settings. It supports 21st Century skills development and efficient classroom management through advanced features.

Specifications:

- Digital Resource Library: 4700 pre-made learning units.
- **Compatibility:** Integrates with existing Smart Classrooms digital content and hardware.
- **Core Features:**
 - Screen spying, broadcasting, computer/screen locking, file sharing.
 - Polling: Real-time student responses.
 - Digital Whiteboard: Replicates whiteboard features.
 - Exam Creation & Dissemination: Tools for building and distributing exams.
- **Compatibility:** Windows 10, local operation, no server required.
- Features:
 - Devices Control, Learner Monitoring, Device Sharing, Utility, and Administration features.
 - Supports differentiated instruction and various learning techniques.

Learning Management System (LMS):

Description: The LMS enhances traditional teaching with digital content and assessments. It supports versatile learning models and offers comprehensive tools for content creation, scheduling, and communication.

Specifications:

- **Core Features:**
 - Content Creation Tools, Scheduling, Communication, Web 2.0 Tools.
 - Supports SCORM compliant modules, curriculum design, and content modification.
 - Tracks student progress and ensures learning outcomes are met.
- Versatility: Supports blended learning and flipped classroom models.

Digital Content:

Offline Version (compliant for future online use):

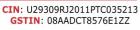
- **Engineering Fields:**
 - Engineering Drawing (42 units)
 - Inspection, Maintenance, Quality Management (60 units)
 - Machine & Instrument Engineering (72 units)
 - Fluid Power (150 units)
 - Mechanical Systems (62 units)
 - Materials Engineering (51 units)
 - Manufacturing Engineering (155 units)
 - Industrial Control (159 units)
 - Engineering Design (52 units)
 - Manufacturing Technology (53 units)

Note: Specifications are subject to change, Photos shown above are Indicative, Actual Product can Vary.

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- Robotics (87 units)
- Forces and Motion (95 units)
- Life Skills:
 - Business Skills (199 units)
 - Personal Skills (24 units)
 - Workplace Problem Solving (108 units)
 - Engineering Mathematics (122 units)
 - English Language Skills (47 units)

Each module includes presentations, animations, theory, instructional information, photos, and interactive experiments.

Package Includes:

- 1 server license and 20 student licenses.
- Option for installation on existing Smart Classroom servers with Windows 2012/2016 network software.

Lab Set-Up Manual: Provided during the bidding process.

Teacher Demonstration Desktop Trainers:

- Industrial Control Trainer Teaching Set
- PLC Trainer Teaching Set
- Robotics Trainer Set
- Hydraulics Trainer Set
- Mechanisms Trainer Set
- Electro-Pneumatics Trainer Set
- Educational Robotics Invention Set
- Engineering Construction Set

IT Package:

Server Kit:

 1 Server Computer: 4 core, 3.1 GHz, 4GB RAM, 1TB Hard Disk, Keyboard, Mouse, 15.6" Display, Windows 10.



Student PC Kit:

• 20 PCs: Intel i5, 15.6" Display, 4GB RAM, 500GB Hard Disk, Windows 10, Office Student.



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Teacher PC Kit:	
 PC: i5-6500, 3.2 GHz, 8GB DDR4, 5000 Windows 10, Office Home/Student 201 	
• Monitor: 21.5", Full HD, 1920x1080 res	solution.
 Accessories: USB business speaker set, 	, headset.
Classroom/Workshop PC Kit:	
 PC: i5-6500, 3.2 GHz, 8GB DDR4, 5000 Windows 10, Office Home/Student 201 	
• Monitor: 21.5", Full HD, 1920x1080 res	solution.
 Accessories: USB business speaker set, 	headset.
Digital Whiteboard Kit:	
 Projector: Short throw, 3300 lumens, V with 2 pens. 	VXGA,
 Document Camera: USB, 15fps, 4x digitation 	ital zoom.
Active Speaker Set: 2x40W, stereo.	
 Projection Board: 16:10, 2014x1285mi touch sensor strip. 	n, with
• Cabling Kit: 10m VGA, 10m USB with b	pooster.
Standard Whiteboard:	/
• Dimensions: 180x120 cm.	

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Printer:

• Color Laser Printer: With toner cartridges (4),	
USB print cable.	- Barrel
Height: 280 mm	
Width: 423 mm	
 Depth: 289 mm 	
• Weight: 14.8 kg	-
Draft mode resolution: 300 x 300 dpi	•
 Normal mode resolution: 600 x 600 dpi 	
 Plain-Best mode resolution: Up to 2400 dpi 	
Input sensor resolution: 1200 x 1200 dpi	
 Printing Speed: Up to 20 ppm (b&w), 16 ppm (color) 	
 Scanning Resolution: Up to 1200 x 1200 ppi 	
Teacher Furniture:	
• Desk: 180x120x75 cm, light grey RAL 7035, melamine top.	

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 Cabinet: 92x42x195 cm, light grey RAL 7035, lockable. 	
Student Furniture:	
 Chairs: 20 pcs, chrome frame, strong PP seat, stackable. 	
• Desks: 8 pcs, 80x80x75 cm, light grey RAL 7035, melamine top.	
• Wing Tables: 4 pcs, 180x120x75 cm, light grey RAL 7035.	

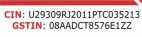
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• Lockers: 3 rows of 4 lockers per unit.

Storage Cabinets:

• **Open Front:** Light grey RAL 7035, 92.5x42x195 cm, 4 shelves.

• Lockable: 90x40x180 cm, 4 shelves.



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