

Best Way of Learning With Multimedia Lessons

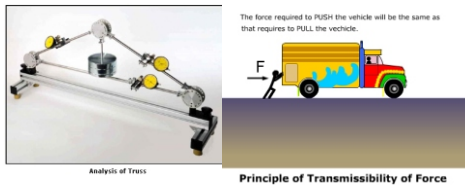
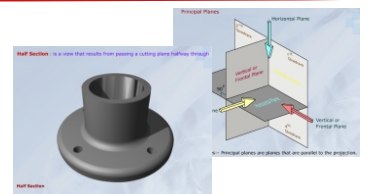


- ➔ Effective Learning/Training Aids in the form of software packages developed with latest Multimedia tools and techniques offering the necessary ease of operation with easy installation with low cost.
- ➔ Helping you to understand concept with powerful visual aids with Self Paced/Self Study/Self Controlled effective method of learning.
- ➔ **FACILITATE LEARNING ANY TIME - ANY WHERE - FOR EVERYONE.**

SoftTech Engineers Pvt. Ltd. Pune India is an ISO 9001:2000 certified eminent and leading software development enterprise developing Softwares for A/E/C domain, Enterprise solutions and Multimedia Based Learning/Teaching Aids with Computer Aided Instructions in various subjects of IT/ Electronics/Electrical/Mechanical/Civil Engineering/Non Engg subjects like Food Sciences, Fashion Technology, Bio-Medical & Management subjects . Our Customer base is several engineering and other institutes all over the country and Overseas .

Engineering Graphics

- ➔ Introduction
- ➔ Projection of Points, Lines and Planes
- ➔ Orthographic Projections
- ➔ Isometric Projections
- ➔ Interpretation of Views
- ➔ Engineering Curves and Loci of points
- ➔ Projection of Solids
- ➔ Development of Solids
- ➔ Intersection of Solids
- ➔ Computer Aided Drafting

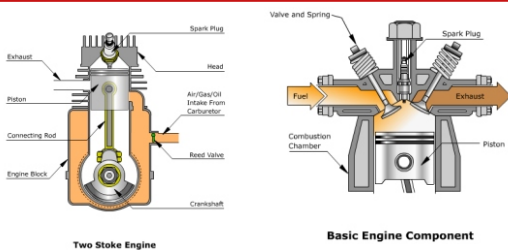
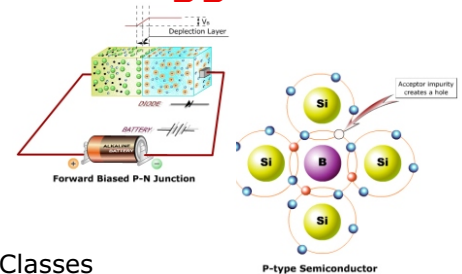


Engineering Mechanics

- ➔ Introduction
- ➔ Pin Jointed Plane Frames
- ➔ Center of Gravity
- ➔ Friction
- ➔ Dynamics Kinematics of Particles
- ➔ Kinetics of Particles
- ➔ Kinematics of Rigid Bodies
- ➔ S.H.M. and Compound Pendulum
- ➔ Kinetics of Rigid Bodies

Basic Electronics / Elements of Electronics Engg.

- ➔ Introduction
- ➔ Semiconductor Theory
- ➔ Rectifier circuits
- ➔ Filter Circuits
- ➔ Sner Diode & its Applications
- ➔ Bipolar Junction Transistor
- ➔ Field Effect Transistor
- ➔ Transistor Biasing & Stabilization
- ➔ Transistor Amplifiers
- ➔ Transistor AF Amplifiers
- ➔ Transducers
- ➔ Number Systems
- ➔ Logic Gates
- ➔ Electronic Counters
- ➔ Computer Fundamentals
- ➔ Data Communication System
- ➔ Preliminaries, Expressions, Statements, Functions
- ➔ Arrays, Pointers, References & Classes
- ➔ Oscilloscope



Elements of Mechanical Engineering

- ➔ Introduction
- ➔ Fuel & Combustion
- ➔ Properties of Gases
- ➔ Properties of Steam
- ➔ Heat Engines
- ➔ Steam Boilers
- ➔ Internal Combustion Engine
- ➔ Speed Control
- ➔ Pumps
- ➔ Air Compressors
- ➔ Refrigeration & Air Conditioning
- ➔ Coupling, Clutches & Breaks
- ➔ Transmission of motion & Power
- ➔ Turning Lathe Machine
- ➔ Milling & Drilling Machines
- ➔ Grinding Machines
- ➔ Key Concepts of CNC
- ➔ Controllable Machine Parts

Basics of Using Computers / Information Technology

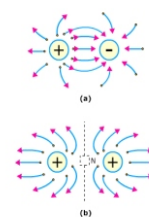
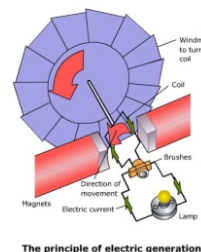
- ➔ Operate Computer Using Window's Operating System
- ➔ Type Efficiently with Computer's KEYBOARD
- ➔ Create & Manage Files, Folders using "My Computer & "Window's Explorer"
- ➔ Prepare Document Files & Office Records Using Microsoft Word.
- ➔ Create & Manage Spreadsheet Data Using Microsoft Excel
- ➔ Create & Manage Database for Different Commercial Application Using Microsoft Access
- ➔ Create Presentation Using Microsoft PowerPoint
- ➔ Internet - Getting information from Website - Learning E-Mail.
- ➔ Troubleshooting the Personal Computer's Hardware Problems.
- ➔ Operating PC in Window's Local Area Network (LAN)-Networking



- Symbols & Abbreviations
- Fundamental Concepts of Electricity
- Electrostatic Fields
- Electric Circuits with DC Charge
- Single Phase AC Circuits
- Electrostatics
- Capacitance
- Magnetic Circuits
- Electromagnetism
- Electromagnetic Induction
- Inductance
- Introduction to Energy Sources
- Sub-stations

Elements of Electrical Engineering

- Network Equations
- Impedance Functions & Network Theorems
- Polyphase Circuits
- Transformers
- Three Phase Transformers
- Inductor & Transformer
- Induction Motor
- DC Motor
- Units of Measurement
- Cable, Connectors & Wires
- Electrical Wiring Installations



(a) Electric field lines around two unlike charges and (b) around two like charges

Elements of Civil Engineering



Tellurometer Model MRA 3

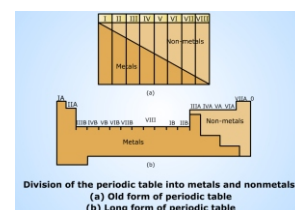
- Introduction to Civil Engineering
- Linear Measurement
- Angular Measurement
- Vertical Measurement
- Contouring, Area
- Modern Surveying Equipments
- Basic Materials

- Building Planning & Acts
- Energy & Environment
- Introduction to Building Structure
- Introduction to Highways
- Importance of Geometric Design
- Highway Material & Construction
- Importance of Irrigation
- Earthquake Engineering

Material/Applied Science - 1

- Interference
- Relativity
- Diffraction
- Ultrasonics
- Polarisation
- Nuclear Physics
- The Solid State and Crystallography

- Environmental Chemistry
- Water
- Polymers

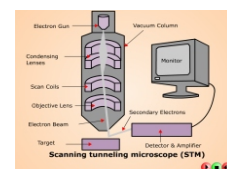


Division of the periodic table into metals and nonmetals:
(a) Old form of periodic table
(b) Long form of periodic table

Material/Applied Science - 2

- Wave Particle Duality
- Wave Equations
- Lasers
- Magnetism and Superconductivity
- Semiconductor Physics
- Modern Physics

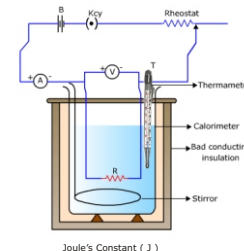
- Fuels
- Combustion
- Electrochemistry
- Corrosion
- Analytical Chemistry



Applied Physics

- Introduction
- Physical Measurements
- Electrostatics
- Electric Potential
- Capacitance Condensers
- Principle of Electric Circuits
- Heating Effect of Electric Current
- Thermoelectricity

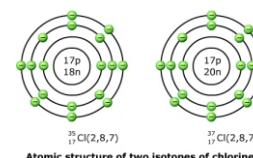
- Magnetic Effect of Electric Current
- Elasticity
- Surface Tension
- Viscosity
- Gas Laws and Specific Heat of Gases
- Conduction of Heat and Expansion
- Refraction of Light
- Photometry



- Atomic Structure
- Electronic Theory of Valency
- Electrochemistry
- Water
- Metallurgy
- Alloys

- Corrosion
- Paints and Varnishes
- Lubricants
- Fuels
- Non-Metallic Materials
- Pollution and Its Control

Applied Chemistry



Head office
Unit 5/A, The Pentagon,
Near Hotel Panchami, Satara Road
Pune 411009- India
Tele Fax : +91 20 24218747 / 7676

Contact For Details
Prof. Pawan Gupta
Cell : 9372404408
Email: pawan@softtech-engr.com
eLearning@softtech-engr.com

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