Integrasi Teknologi dalam Pembelajaran

Bahan Kuliah :

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What You Need to Know

Definition of Integrating Educational Technology

The process of determining which *electronic tools* and which methods for implementing them are appropriate for given classroom situations and problems.

Develop a Philosophy

A personal perspective on the current and future role of technology in education

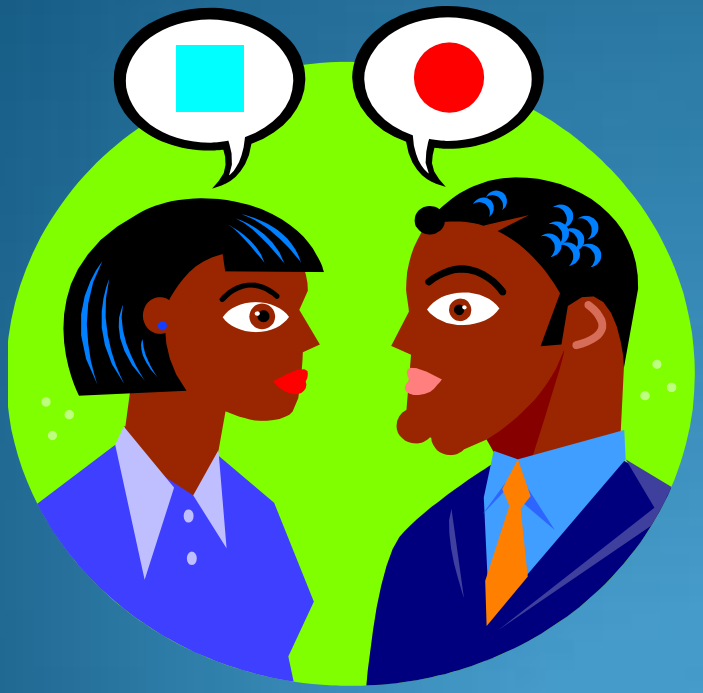
Purchase Products

Become informed, knowledgeable consumers of technology products and select wisely among available alternatives

Identify Problems

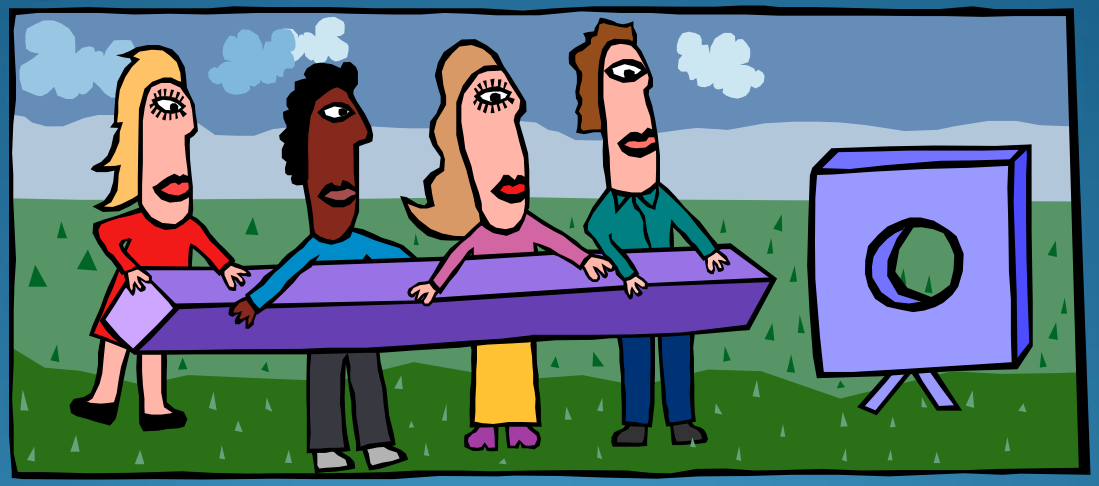
Discriminate between problems that you can correct and those that will require outside help

Speak the Language



Knowledge of terms and concepts allow you to exchange information and ask informed questions

See Where Technology Fits



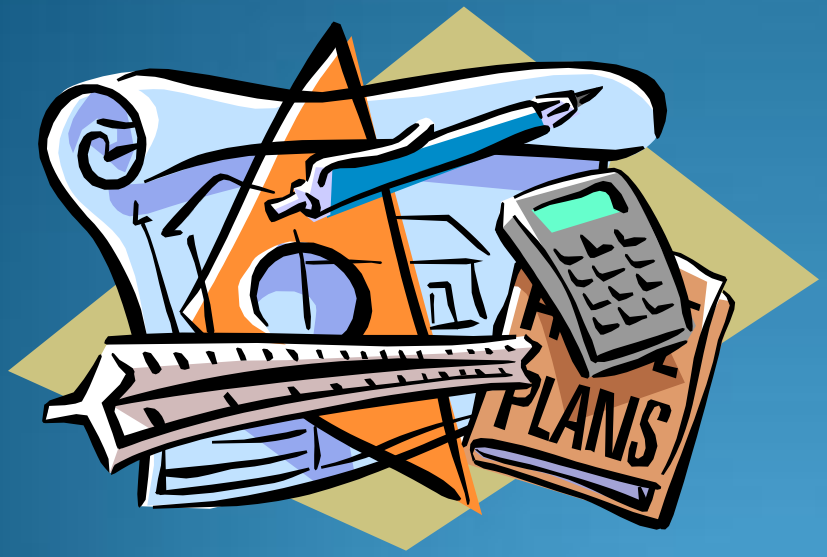
Identify specific teaching & learning problems which technology can help address and how it can create learning opportunities that did not exist.

Views of Technology in Education

Media & Audiovisual

Instructional use of technology as a device that carries messages

Instructional Systems

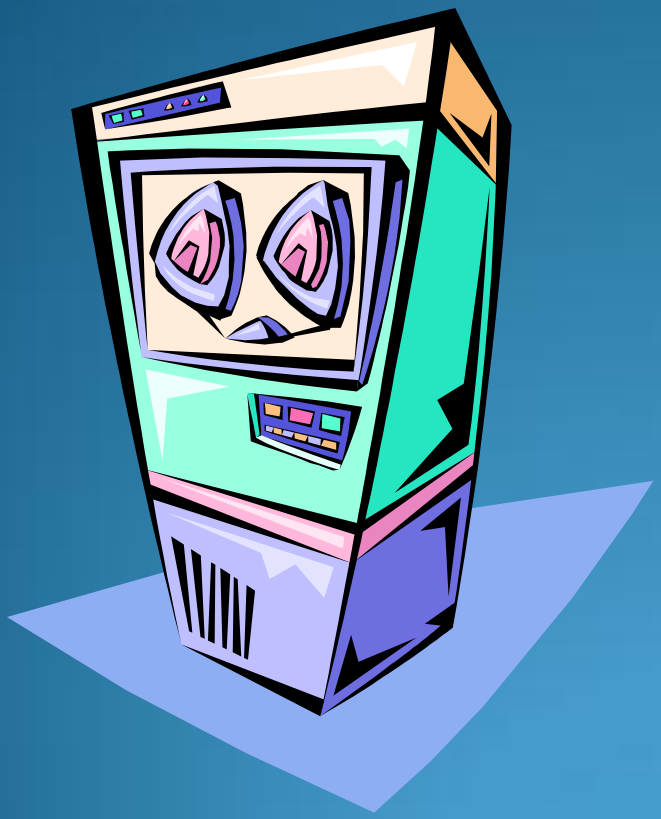


A systematic approach to designing, developing, and delivering instruction matched to identified needs

Vocational Training Tools

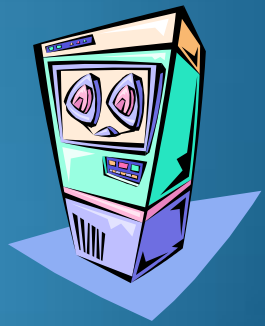
Practical means of teaching content by directly relating it to the world of work

Computer-Based Systems



The use of computers & computer-based systems to deliver and manage all instruction

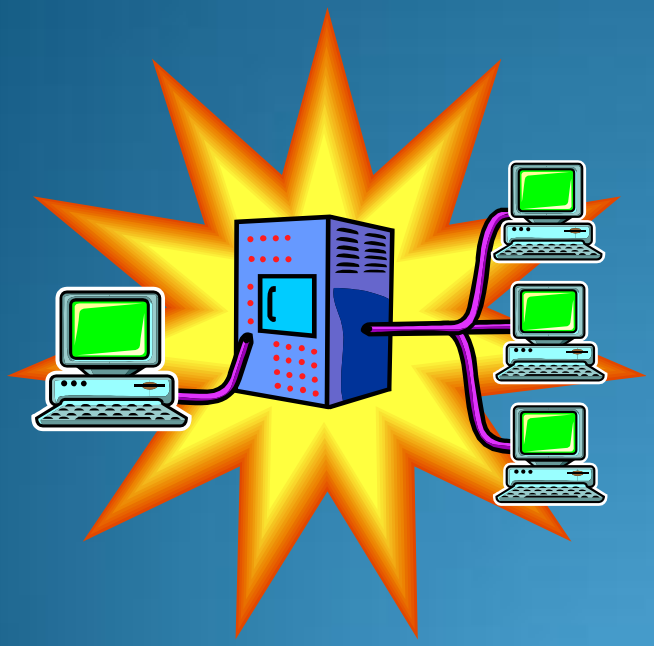
Combined Approach Based on Instructional Models



History of Educational Computing

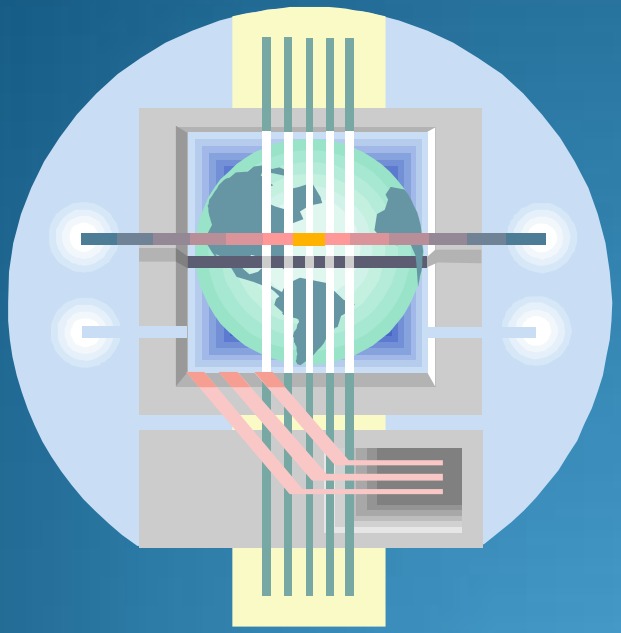
- Mainframe/Mini Systems: 1950-1970s
- Microcomputers: 1977-Today
- Integrated Learning Systems: 1990s –Today
- Internet & WWW: 1995-Today

Mainframe/Mini Systems



- IBM 1500
- Computer Curriculum Corporation
- Control Data Corporation

Microcomputer Revolution



- MECC
- Courseware Authoring
- Logo

Integrated Learning Systems

- NCS Learn
- Compass Learning

World Wide Web

- On-Line Resources
- Distance Education

What History Has Taught Us

- Possible doesn't equal desirable, feasible, or inevitable.
- Change is too fast to keep up with
- Older technologies can be useful
- Teachers always will be important

What History Has Taught Us

- Technology not a panacea
- Literacy offers limited rationale
- Benefits & limitations of system configurations
- Teachers are not developers

Rationale for Technology Use

- Motivational
- Unique Instructional Capabilities
- Support for New Instructional Approaches
- Increased Teacher Productivity
- Required Skills for an Information Age

Motivation

- Gaining learner attention
- Engaging the learner through production work
- Increasing perception of control

Unique Instructional Capabilities

- Linking learners to information & education resources
- Help learners visualize problems and solutions
- Tracking learner progress
- Linking learners to learning tools

Support for New Instructional Approaches

- Cooperative learning
- Shared intelligence
- Problem-solving and higher-level skills

Increased Teacher Productivity

- Freeing time to work with students
- Providing fast, accurate information
- Production of better looking materials

Information Age Skills

- Technology literacy
- Information literacy
- Visual literacy

Issues in Education and Technology

- Societal
- Cultural/Equity
- Educational
- Technical

Societal

- Pro-technology Movements
- Anti-technology Movements
- Socialization Needs
- Online Dangers
- New Plagiarism

Cultural & Ethnic Inequity

- Economic & Ethnic
- Multicultural
- Gender
- Special Needs

Educational

- Directed vs. Constructivist Debate
- Single-subject vs. Interdisciplinary Instruction
- Role of Distance Learning

Technical

- Rapid Change
- Increased Complexity