OER in Teaching, Learning & Research

Enhancing access, equity, and innovation in education.
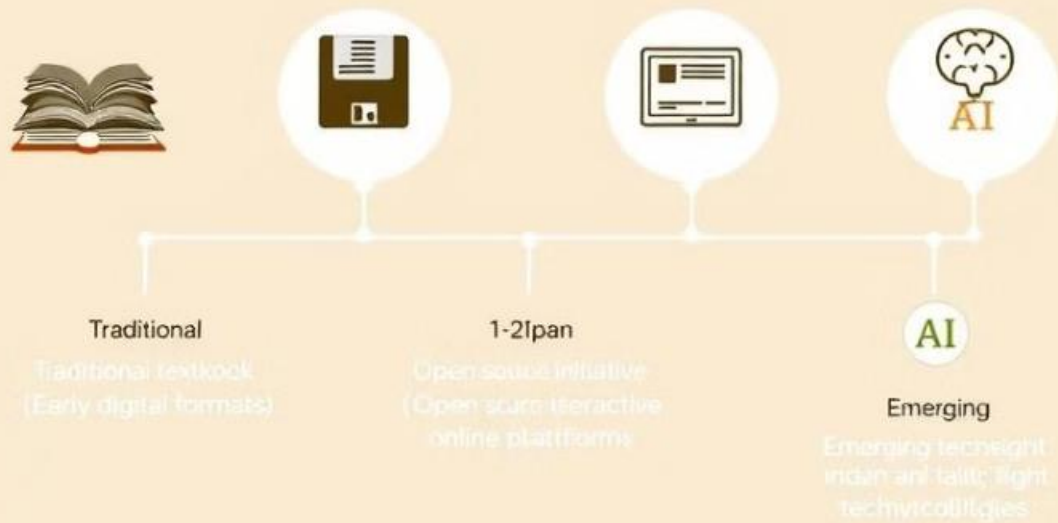
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Introduction to OER

Definition

Free teaching, learning, and research resources.

Key Features

Accessible, adaptable, and reusable educational materials.

History

Originated to democratize education globally.

Traditional

Traditional textbook
(Early digital formats)

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Open source initiative
(Open sourc iteractive
online platform)

AI

Emerging

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Licensing and Accessibility

Creative Commons

Various licenses enable flexible use and adaptation.

Equity

Free access promotes inclusive learning opportunities.

Benefits of OER

1 **Cost-Effective**

Reduces financial burden on students and institutions.

2 **Customizable**

Tailored to specific teaching and learning needs.

3 **Inclusive**

Promotes equitable access to quality educational materials.

Integrating OER in Teaching

1   **Curriculum Design**

Customize materials for diverse learning needs.

2   **Collaborative Teaching**

Engage students in content creation and adaptation.

3   **Resource Sharing**

Utilize platforms like OER Commons and MERLOT.

Challenges in Teaching with OER

1	2	3

Quality Control

Ensure alignment with educational standards.

Sustainability

Maintain and update content regularly.

Best Practices

Adapt OER effectively for specific curriculum goals.

Enhancing Learning with OER

Personalized Learning

Self-paced options cater to individual needs.

Equity in Access

Reduce barriers for underserved communities.

Accessibility Features

Ensure inclusive design for all learners.

OER in Research

Open Access	Collaboration	Reproducibility
Research Outputs	Data Sharing	Ethical Considerations

Developing Research Skills through OER

Open Datasets

Access vast data for analysis and learning.

Skill Development

Train with freely available research materials.

Research Tools

Utilize platforms like Zenodo for open science.

Future of OER

AI Integration

Personalized learning experiences through artificial intelligence.

Policy Support

Growing governmental and institutional backing for OER.

1   **2**   **3**

Global Collaboration

Increased international partnerships in OER development.