



## DIGITAL LEARNING ENVIRONMENT, TEACHING MATERIALS, DIGITAL LEARNING PRINCIPLES, PRINCIPLES, INTEGRATIVE APPROACH

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### Abstract

This article discusses teaching materials in a digital learning environment, digital learning principles, principles, and an integrative approach. Digital learning materials make the teaching process more effective and engaging, introduce students to new technologies, and help them strengthen their knowledge, as analyzed in the article.

**Keywords:** Responsibility skills, teaching materials, digital learning principles, principles, integrative approach.

### INTRODUCTION

Digital teaching tools (textual, visual, audio-visual, auxiliary, and model-based tool integration), digital learning materials, digital learning principles, principles, and the integrative approach are described as follows (see Table 1).

**Table 1**  
**Teaching Materials in a Digital Learning Environment, Digital Learning Principles, Principles, and Integrative Approach**

Teaching Materials in a Digital Learning Environment	Digital Learning Principles	Principles	Integrative Approach
Textual, visual, audio-visual, auxiliary, and model-based tools integration	Accessibility, flexibility, and adaptability of content	Student-centered learning, active participation, and collaboration	Combines different subject areas, promotes interdisciplinary learning
Interactive learning platforms, e-books, multimedia resources	Continuous feedback and assessment	Learning through discovery and problem-solving	Emphasizes real-world applications and critical thinking
Digital simulations, educational games, virtual classrooms	Student autonomy and self-regulation	Personalization and differentiation of learning	Use of technology to bridge gaps between theory and practice

Teaching Materials in a Digital Learning Environment	Digital Learning Principles	Principles	Integrative Approach
Collaborative tools, online resources, educational apps	Engagement through multimedia content	Development of critical thinking and problem-solving skills	Supports diverse learning styles and needs

**Digitally Enhanced Teaching Materials** – These are educational materials created by using digital technologies to make the teaching process more effective and interactive for both teachers and students. These materials help improve teaching, learning, and assessment processes. Digital teaching materials in a digital learning environment can be divided into the following types:

1. **Multimedia Educational Materials**
  - o **Videos and Animations:** Video materials prepared by the teacher or found on the internet to make lessons easier to understand. For example, depicting scientific experiments or historical events through animations.
  - o **Audio Files:** Audio materials for listening practice, helping to develop listening skills.
  - o **Infographics:** Presenting complex information graphically, such as statistical data or processes.
2. **Interactive Programs and Applications**
  - o **Games and Simulations:** Allowing students to explore a particular subject and study topics in an engaging and interactive way.
  - o **Online Tests and Quizzes:** Interactive tests used for assessing and teaching students' knowledge.
3. **E-books and Articles**
  - o **E-books:** Unlike other learning materials, e-books are convenient for students and can be read on any device.
  - o **Articles and Research Papers:** Scientific articles or research papers for deeper knowledge on specific topics.
4. **Online Learning Platforms**
  - o **LMS (Learning Management System):** Platforms like Moodle and Google Classroom through which lessons, materials, and tests are conducted.
  - o **MOOC (Massive Open Online Courses):** Courses aimed at a broad audience offered on platforms like Coursera, edX, etc.
5. **Educational Resources and Libraries**
  - o **Digital Libraries:** Digital libraries that allow students and teachers to find various resources in a timely manner.
  - o **Free Online Resources:** Learning through YouTube channels, blogs, and forums.
6. **Graphic Design and Presentation Materials**
  - o **Presentations (PowerPoint, Google Slides):** Effective tools for teachers to describe and explain lessons.
  - o **Infographics and Diagrams:** Using graphic tools to make information easier to understand.

Digital teaching materials make the teaching process more effective and engaging, introduce students to new technologies, and help them strengthen their knowledge.

**Integrative Approach** – This is an approach based on combining, connecting, and harmonizing various scientific, pedagogical, and practical fields in a systematic way.

In an integrative approach, multiple systems, methods, concepts, or techniques are used together and complement each other. The integrative approach is applied not only in science or education but also in business, healthcare, psychology, and many other fields. In education, the integrative approach is used to understand the learning process in a broader and more complex way.

In this approach, various pedagogical, psychological, methodological, and technological methods are applied in harmony within the educational environment. The integrative approach in education focuses on combining multiple disciplines and skills to foster systematic thinking, critical thinking, and creative thinking in students. This approach helps students find successful and interconnected solutions to real-world problems. The primary goal of integrative education is to develop comprehensive knowledge and skills in students, encouraging self-development through these abilities.

Integration of the fields of pedagogy and psychology can be done as follows (see Figure 3).



**Figure 2: Integration of Pedagogy and Psychology Disciplines**

Components of Professional Responsibility and the influencing factors such as teaching, personal characteristics, socio-cultural, and organizational factors are integral. The components of professional responsibility are essential elements that ensure a high level of ethical behavior, adherence to laws, and regulations in the professional field, both for the individual and society. The formation and development of professional responsibility involves interconnected components that interact with each other. Each component ensures the quality of professional activities and also guarantees that the individual remains reliable and effective in fulfilling their duties (see Table 2).

**Table 2**  
**Components of Professional Responsibility**

Components of Professional Responsibility	Content of the Components	Examples
<b>Responsibility in Performing Tasks</b>	This is the sense of responsibility towards one's tasks and obligations. This component means that the student is ready to effectively and timely perform the tasks required in their professional activities. Such responsibility demands high efficiency and a professional approach in task execution.	The teacher plans their lessons, carefully monitors students during class, and provides the necessary support.
<b>Self-management</b>	This is the ability of a student to control their actions, allocate time effectively, and plan, reflecting the sense of professional responsibility. In professional activities, self-management means discipline, organizing effective work, and being resolute in decision-making.	A psychologist organizes their work schedule, allocates time appropriately, and ensures that students efficiently handle personal and professional tasks.
<b>Ethical Responsibility</b>	This refers to the student's adherence to ethical standards, rules, and laws in their professional activities. This component is a crucial aspect of professional responsibility, as every specialist must follow ethical standards in their work.	A psychologist must maintain confidentiality about students' personal information and disclose it only in authorized cases. Similarly, the teacher must respect students' personal lives.
<b>Social Responsibility</b>	This is another vital component of professional responsibility. Professional activities should not only be beneficial for oneself but also for society and others. The student must be ready to serve social norms and contribute to societal welfare in their professional activities.	Students in pedagogy and psychology use their knowledge and skills to positively impact educational, psychological, and social issues in society.
<b>Self-assessment and Reflection</b>	This involves self-assessment and reflection. The student analyzes their work results and identifies areas for improvement. Acknowledging mistakes and learning from them is an integral part of professional development.	After a lesson, the teacher evaluates their teaching methods and considers how to apply more effective teaching strategies.
<b>Professional Development in Education</b>	This refers to professional growth and skill enhancement. A student must continuously update their knowledge,	A psychologist learns new psychotherapeutic techniques and improves their practice. A teacher

Components of Professional Responsibility	Content of the Components	Examples
	learn new professional skills, and stay informed about scientific innovations. This ensures high-quality professional activities.	learns new pedagogical technologies and enhances the teaching process.

Various factors influence the development of students' professional responsibility. The teaching factor involves learning professional responsibility in educational institutions and training students and specialists to approach professional tasks responsibly. As a personal characteristic, a student's self-confidence, self-assessment, and ethical principles play a crucial role in shaping professional responsibility. Socio-cultural factors, such as established norms, traditions, and culture in society, as well as social needs, influence the formation of professional responsibility. Organizational factors, including internal policies in educational institutions, work procedures, and guidelines from leadership, play an essential role in developing professional responsibility. Professional responsibility means not only performing one's duties successfully but also adhering to professional-social norms, ethical codes, self-management, and continuous development. The components of professional responsibility are necessary for ensuring professional success and achieving high results in one's career field.

Professional responsibility involves competencies, professional-personal values, and criteria for personal self-development and education, all of which help in assessing the levels of professional responsibility.

Levels of Improving Responsibility Skills of Students in a Digital Learning Environment – This process involves organizing various stages where students develop time management, learning processes, and self-management skills. In a digital learning environment, these levels aim to improve students' ability to work independently, conduct self-analysis, accept responsibility, and perform effectively in a changing environment.

- **Initial Level:** This is the stage where students make changes based on guidance. At this level, students do not fully feel responsibility and only follow specific instructions related to the learning process. They are still under the teacher's supervision and are not fully prepared to develop self-management skills, such as time management. They focus more on completing guided lessons and assignments.
- **Intermediate Level:** This is the stage where independent learning and time management begin. At this level, students start to implement changes and feel responsible for their learning process. They begin to develop basic skills such as self-analysis, task setting, and completion in digital learning platforms. Students engage in more independent learning tasks, though they may still require some guidance from the teacher.
- **Advanced Level:** This is the stage where students fully accept responsibility and have mastered self-management. At this level, students take full responsibility for their actions and become proficient in independent work, time management, self-analysis, and managing the learning process. Students work more independently and are fully accountable for their successes and failures. They are capable of self-assessment and managing their time optimally.

## CONCLUSION

Digital education is a modern pedagogical approach that helps create new opportunities, enhances education quality, and improves the learning process. Digital learning principles and integrative approaches make education more effective, student-centered, and aligned with their needs. Enriching digital learning with teaching materials helps students develop independent thinking and apply their knowledge in practice.

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