Volume-12, No. 2 Aug.-2025, pp. Eng.01-04

# **Digital Literacy at Different Levels of Education**

Dr. J.K. Vikal, Assistant Professor

Department of Education

Govt. Girls Degree College Sardhana Meerut U.P. Bharat.

#### **Abstract**

In an era shaped by technology, digital literacy has emerged as a foundational skill, redefining the ways we learn, communicate, and participate in society. Far beyond the technical ability to use devices, digital literacy encompasses critical thinking, ethical engagement, and the capacity to navigate digital landscapes with sensitivity and awareness. This article explores the scope, challenges, and human implications of digital literacy across three key educational levels: primary, secondary, and higher education.

We adopt a humanistic lens to understand how learners at each stage interact with digital tools not merely as users but as evolving human beings-curious children, questioning adolescents, and aspiring adults. For young learners, digital literacy is a doorway to discovery and joy; for teenagers, it becomes a mirror for self-identity and social interaction; for university students, it offers autonomy, access, and a global stage for intellectual and professional growth.

However, the promise of digital literacy is far from universally realized. Stark digital divides persist-across rural-urban lines, gender, economic status, and ability-threatening to deepen educational inequalities rather than dissolve them. Additionally, digital fatigue, misinformation, online harassment, and data privacy concerns bring new emotional and ethical burdens, especially in underprepared or unsupported environments.

Using policy analysis, case studies, and learner-centric narratives, this paper argues that digital literacy must be treated not just as a skill set but as a deeply human process- one that fosters resilience, empathy, critical awareness, and inclusive citizenship. Technology can either alienate or empower; its impact depends on how we embed it in the emotional, cultural, and cognitive fabric of education. Digital literacy, when nurtured with compassion and equity, can shape not only informed individuals but also a more just, connected, and human future.

Keywords: Digital Literacy, Technology, Levels of Education

# **Introduction: Reimagining Literacy in a Digital World**

To be literate in the 21st century is no longer confined to reading books or writing essays. Today, literacy includes the ability to interact with digital interfaces, interpret online media, critically assess information, and engage ethically in virtual environments. Digital literacy is not just a new form of knowledge; it is a new way of being in the world.

For students across different stages of life, the encounter with digital technologies is deeply transformative. It changes how they learn, relate, express themselves, and perceive the world. But this transformation is uneven, fraught with barriers and risks, as well as opportunities. To understand digital literacy deeply, we must look beyond screens and apps, and into the lives, struggles, and aspirations of learners at every level.

This article explores digital literacy in education through a humanistic lens- one that centers empathy, developmental psychology, cultural realities, and ethical awareness. We examine how digital literacy unfolds differently in primary, secondary,

and higher education and how it must be tailored to the human needs of learners at each stage.

# Digital Literacy in Primary Education Learning through Discovery

For children in primary school (roughly ages 6–12), digital tools introduce them to a universe beyond textbooks. Educational games, animations, interactive stories, and child-friendly applications can create a stimulating and joyful learning experience. In many schools, smart boards and tablets are being used to support early literacy, numeracy, and language acquisition.

#### **Emotional and Social Growth**

Children in this stage highly impressionable. Their relationship with technology is not just cognitive but emotional. A well-designed app can enhance attention, confidence, and participation. But exposure, screen overuse, unsupervised access can lead to anxiety. distraction, and reduced human interaction.

### **Challenges**

- Limited Access: In rural or underresourced schools, digital infrastructure is often minimal or absent.
- Teacher Training: Many primary teachers lack digital pedagogical training.
- Parental Support: At home, children may or may not have digital exposure, depending on socio-economic status.

### Reflection

At this level, digital literacy should be about discovery, joy, and guided exploration. It should cultivate confidence, curiosity, and communication. The role of teachers and parents is not to push early mastery of tools but to create a safe, caring, and playful digital environment. Here, touch, empathy, and storytelling matter as much as technology.

# **Digital Literacy in Secondary Education Critical Engagement**

Teenagers (ages 13–18) are not only active consumers of digital media but also producers-of blogs, memes, videos, and opinions. Digital literacy in this stage must include media literacy, cyber ethics, and critical thinking. Students must learn to

distinguish between credible and fake information, respect digital boundaries, and understand the impact of their online presence.

## Peer Relationships and Social Media

Social identity and peer approval become vital during adolescence. Social media platforms such as Instagram, Snapchat, and YouTube become sites of validation, performance, and sometimes anxiety. Cyber bullying, online harassment and self-esteem issues are common, especially among marginalized or vulnerable students.

## The Urban-Rural and Gender Divide

While many urban students use smart phones daily, rural students may still struggle with basic digital access. Additionally, girls in certain communities face restrictions on phone use or internet access due to gender norms.

## Reflection

Digital literacy at this level must focus on ethical agency, mental well-being, and self-expression. It should empower adolescents to explore their identities while understanding the responsibilities that come with digital freedom. Programs that promote digital citizenship- kindness, authenticity, and consent-are essential. Adolescents must be taught not just how to use tools, but how to own their voice and navigate conflicts with empathy.

# Digital Literacy in Higher Education Beyond Technical Proficiency

In higher education, digital literacy becomes more complex. University students must learn to use digital tools for:

- Academic research (databases, referencing, plagiarism checkers)
- Collaborative work (Google Workspace, Notion, MS Teams)
- Professional development (LinkedIn, coding platforms, MOOCs)
- Global engagement (conferences, webinars, internships)

Digital literacy now means not just access to tools, but the ability to use them strategically, ethically, and independently.

## The Pandemic as a Turning Point

COVID-19 accelerated the shift to online education. While many privileged students transitioned smoothly, thousands of first-generation and rural students in India faced dropouts, connectivity issues, and digital fatigue. The digital divide became a learning divide.

### **Emotional Toll and Isolation**

Online education can also lead to disconnection, loneliness, and stress. The lack of campus life, peer networks, and face-to-face mentoring affects mental health and identity development.

## Reflection

At the tertiary level, digital literacy must be framed as a path to empowerment, inclusion, and contribution. Students must learn to think critically, collaborate compassionately, and act responsibly in digital spaces. They must be equipped not only for jobs but for global citizenship.

# Barriers to Digital Literacy: The Digital Divide

Digital literacy does not develop in a vacuum. It is shaped by real-world constraints:

- Economic inequality: Access to devices, data, and electricity remains unequal.
- Linguistic exclusion: Most digital content is in English, alienating non-English speakers.
- Disability exclusion: Many platforms lack accessibility features for differently-abled learners.
- Cultural alienation: Content that ignores local languages and values can be disengaging.

These divides are not just technologicalthey are social, cultural, and emotional. Bridging them requires inclusive policies, community engagement, and culturally responsive content.

# Policies and Promising Practices India's NEP 2020

The National Education Policy (NEP) 2020 emphasizes:

- Integration of digital tools in pedagogy
- Creation of the National Educational Technology Forum (NETF)
- Digital content in regional languages
- Teacher training in digital methods

### **Global Frameworks**

- UNESCO's Digital Literacy Global Framework stresses equity, ethics, and empowerment.
- SDG 4 (Quality Education) links digital inclusion with human development.

However, implementation remains slow in many regions. Funding, monitoring, and ground-level innovations are urgently needed.

# Conclusion: Toward a Human-Centered Digital Future

Digital literacy is not just a checklist of skills; it is a lifelong process of learning, questioning, and growing. At each level of education, it must be approached differently- with empathy for the learner's age, context, and emotional world.

- In primary education, digital tools must bring joy, safety, and simplicity.
- In secondary education, they must offer voice, belonging, and ethical awareness.
- In higher education, they must provide freedom, access, and global relevance.

We must not forget: every digital skill must be anchored in human values-respect, compassion, creativity, and care. Only then can we ensure that digital literacy is not a privilege of the few, but a birthright of every learner.

#### **References:**

- 1. Pradhan Mantri Gramin Digital Saksharta Abhiyan 2024, Govt. of India.
- 2. Swaroop, Parthasarathy, 2024 "Teaching Digital Accessibility in Computing Education in India, are XIV Preprint June 2024
- 3. Varghese and Mustafa 2023 "Integrating Digital Literacy Skills and Technological Intelligence in the Higher Education Curriculum of India" Page 31-38 issues Ideas in Education Vol. 1
- 4. Yadav, Dhananjai and Shukla Aditi 2025 "Digital Literacy: The Importance, In Initiatives and Challenges. Educational Metamorphosis, Vol.2

- 5. Dua, Meenu 2025 "Digital Literacy for rural Woman: Pathways to Empowerment and Socio Economic Inclusion" Journal of Scientific Research and reports, 31 (1) Page 34-47
- 6. The Hindu (News Paper) July 2024 "Computer Literacy in India Needs a Reboot".
- 7. National Educational Policy 2020, Ministry of Education, Govt. of India.