

International Journal of English Learning & Teaching Skills (IJELTS)

Volume 3 | Issue 3 Article 12

2024

Learning by Doing: SMART CLASSROOMS AND e-LEARNING

Subhamita Samanta Institute of Engineering & Management

Trina Dwibedi Institute of Engineering and Management

Follow this and additional works at: https://research.smartsociety.org/ijelts



Part of the English Language and Literature Commons

Recommended Citation

Samanta, Subhamita and Dwibedi, Trina (2024) "Learning by Doing: SMART CLASSROOMS AND e-LEARNING," International Journal of English Learning & Teaching Skills (IJELTS): Vol. 3: Iss. 3, Article 12. Available at: https://research.smartsociety.org/ijelts/vol3/iss3/12

This Article is brought to you for free and open access by Society for Makers, Artists, Researchers and Technologists (SMART Society). It has been accepted for inclusion in International Journal of English Learning & Teaching Skills (IJELTS) by an authorized editor of Society for Makers, Artists, Researchers and Technologists (SMART Society). For more information, please contact souvik.chatterjee@iemlabs.com.

International Journal of English Learning & Teaching Skills (IJELTS), Vol. 3 [2024], Iss. 3, Art. 12

2

Running Head: SMART CLASSROOMS AND e-LEARNING

ABSTRACT

This paper is about the much growing technology "SMART CLASSROOMS and e-LEARNING". The Smart

Classroom project explores the challenges and potentials of the Intelligent Environment as a new human-

computer interaction paradigm. The Smart Classroom could actively observe, listen and serve the teachers, and

teachers can write on a wall-size media-board just by their hands, or use speeches and gestures to conduct the

class discussion involving of the distant students. This paper discusses the advantages, disadvantages and main

uses of the system.

Keywords: Smart classrooms, e-learning, human-computer, media-board, Intelligent Environment

JELTS

International Journal of English Learning and Teaching Skills; Vol. 3, No. 3; April 2021, ISSN: 2639-7412 (Print) ISSN: 2638-5546 (Online)

Samanta and Dwibedi: Learning by Doing: SMART CLASSROOMS AND e-LEARNIN

3

Running Head: DISTANCE LEARNING

1. INTRODUCTION

e-Learning is the employment of technology to aid and enhance learning. It can be as simple as High School

students watching a video documentary in class or as complex as an entire university course provided online. As

technology advances, so does e-learning, making the possibilities endless. This paper discusses the smart

classes as a modernized method of education in Indian education scenario which provides quality education to

students by helping them in better concept formation, concept elaboration, improvement in reading skills and

academic achievement.

SMART(classrooms) can be elaborated as:

Showing-This aspect represents the teaching material and its presentation basically capabilities

classroom, which needs not only showing the contents but it can be clearly and attractively visible. It also shows

Journal of English Learning and Teaching Skills

content suitable for learners. The existing research shows that multi- screen displays can decrease cognitive load

and improve learners' achievement. Colvin

(2007) noticed that the multi-screen is far better than single-screen in the academic improvement and getting

good achievements of learners

Manageable – This dimension signifies diverse layouts and the convenience of management of the Smart

classroom. The equipment and apparatus, systems and organization, various resources and aids of Smart

classroom should be easily managed, including layout of the classroom, equipment, physical environment,

electrical safety management and network management etc.

Accessible dimension shows convenience of resources procurement and apparatus access in the well-

arranged Smart classroom, which includes resource selection, content and text distribution and its access speed.

Chen Shijian (2003) shows that the rich and vast network of learning resources is favorable and conducive to

International Journal of English Learning and Teaching Skills; Vol. 3, No. 3; April 2021, ISSN: 2639-7412 (Print) ISSN: 2638-5546 (Online)

International Journal of English Learning & Teaching Skills (IJELTS), Vol. 3 [2024], Iss. 3, Art. 12

4

Running Head: DISTANCE LEARNING

independent self-learning, interactive cooperative learning, modified learning, so the implementation of this

approach is for betterment of educational socialization.

Real-time Interactive feature represents the ability and caliber to support the teaching-learning interactions

and human-computer interactions of the Smart classroom, which involves basic convenient operation, smooth

interaction and interactive tracking among teachers and students in convenient operation. Generally, the Smart

classroom should be able to support the specific and ordinary interactions between man and machine. Their

interactive equipment and interface with a simple, fully-featured, vibrant navigation, consistent with the

operative habits and their characteristics, touch, visual and voice interaction can easily improve the interaction

between man and machine.

Testing – This aspect is explained the perception of the physical environment during the classroom

interaction and also learning behavior of students in the Smart classroom. The physical environment of the

class including air, temperature, light, sound, color, odours, area etc, affect the physical and mental activities

and actions of teachers and students in the smart class.

2. PRIMARY USES OF e-LEARNING

Non Academic/Corporate

Both small and large businesses are increasingly using e-learning for initial and updating staff training. Both

external resources and in house programmes developed on company intranets are used.

Academic: Educational Websites

Some institutions (and individual academics) have preferred to develop their own online educational

resources. These are basically individually designed websites that are tailored to a particular audience, often on a

https://research.smartsociety.org/ijelts/vol3/iss3/12

2387

Samanta and Dwibedi: Learning by Doing: SMART CLASSROOMS AND e-LEARNING

5

Running Head: DISTANCE LEARNING

particular subject. They are much like an interactive textbook, including audio, video and 3D graphics. Some

also contain activities and quizzes etc to aid learning.

3. ADVANTAGES AND DISADVANTAGES OF e-LEARNING

Advantages:

• Widens access to the course: students can learn from wherever they are and numbers do not have to be

limited.

• Provides access to more information, and allows students to use their own initiative to find it. • Students

imbibe extra computer skills that may prove useful generally.

• Students can study whenever and wherever they want to.

• Digital information reduces strain on the library. Students no longer feel they have to fight over books.

Disadvantages:

• Students miss out on the benefits of face-to-face interaction and the knowledge sharing that can arise from

this.

• Computer systems can be prone to technical difficulties. Failure of server, client or connection can mean

the students are unable to study.

• Expensive and complex to implement.

• Less technology-savvy students may not perform as well as they would do in a traditional class. • There

are potential health risks associated with excessive computer usage.

International Journal of English Learning & Teaching Skills (IJELTS), Vol. 3 [2024], Iss. 3, Art. 12

Running Head: DISTANCE LEARNING

6

4. CONCLUSION

A scientific understanding of learning includes understanding about learning processes, learning environments, teaching, sociocultural processes, and the many other factors that contribute to learning. Smart learning is effectively doing its task to cope up with the difficulties people face during odd times. The smart classes are a new generation educational product which helps students gain more marks and is a step to the future of education.



Samanta and Dwibedi: Learning by Doing: SMART CLASSROOMS AND e-LEARNING

REFERENCES

- International society for Technology on Education (2008), Keys to the successful implementation of technology for student learning
- Minjuan Wang et al (2009), The impact of mobile learning on students' learning behaviours and performance: Report from a large blended classroom, vol.40, Issue 4, Pg 673-695
- Tammy Oleksiw (2007), The Effect of the SMART Board, Interactive Whiteboard on Raising State Test Scores
- G.Bautista, F.Borges, Smart classrooms: Innovation in formal learning spaces to transform learning experiences. Bulletin of the IEEE Technical Committee on Learning Technology 15(3), 18-21(2013)
- R.Koper, Conditions for effective smart learning environments. Smart Learning Environments 1(1), 5(2014)
- V.L. Uskov, J.P. Bakken, A Pandey, in Smart Education and Smart e-Learning, ed. by V.LUskov, R.J.Howlett, L.C. Jain. The ontology of next generation smart classrooms (Springer International publishing, Cham, 2015)
- Neeraj Dhankar(2011), Education in Emerging Indian Society, (pg 1-5)
- Y.K.Singh (2011), Educational Technology: Management and Planning
- Yuan Hsuan Lee et al.(2011), Revisit The Effect OF Teaching and Learning with Technology
- Fraser, B.J..: Research on classroom and school climate. In D.L. Gabel (Ed.), Handbook of research on science teaching and learning. Macmillan, New York (1994)