

8th lesson : E-learning

objectif :

- Recognize the importance of using e-learning in teaching mathematics
- Understand the use of e-learning.

1. E-learning defitition :

E-learning has a lot of definitions, possibly because there isn't a single type of elearning. A general definition shows the "learning" made by means of WEB technologies, or through an preinstalled software in a computer with multimediacapacity, either in an asynchronic way (separated student and source on time: autoformation), or in a synchronic way (connected student and source in real time, a "virtual class ").

Traditionally distance education has been asynchronic (teacher and students learning in different places and in different times). The newness introduced with informationand communication technologies (TIC) has brought the possibility of developing asynchronic formation, in which teachers and students listen, read and can be seen, independently if they are in different places.

E-learning is an auto- assisted learning system. The student will be able to assimilateknowledge, which "is dictated" by a program, by means of a computer. The studentfeels more comfortable and can repeat the lesson all the times he needed it¹.

¹ Erasmus project: EUROPEAN MASTER DEGREE IN LOGISTICS , E-LEARNING: AN APPROACH , universite of Ljubjana, p 1

2. traditional formation and E-LEARNING

Type of learning	Tradicional Formation	E-Learning
Synchronic	Typical class in which it takes part a teacher and several students	All the class is connected to Internet in a Chat. The participants present ideas to the class using audio or text or videoconference.
Synchronic/ Asynchronous	Groups of students meet outside the class timetable to make some task	Groups of students meet in a Chat to make a propose task
	The teacher meets with students during tutorship hours	The teacher uses the tutorship hours to advise, in a chat, to students
Asynchronous	The students complete individually assigned tasks, making report for the teacher	The students download the tasks and resources of information from the Web site. The teacher provides to the student tutorship hours by e-mail
	The library is used as formation resource	The students have access to the excellent information of Internet through proposed connections.

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3 . The importance of using E. learning :

The importance of using educational techniques in mathematics: The importance of using educational techniques in mathematics is due to the following:

1. Learning techniques help to overcome the problem of increasing the number of learners.
2. Learning techniques help in addressing individual differences between students.

² Erasmus project: EUROPEAN MASTER DEGREE IN LOGISTICS , E-LEARNING: AN APPROACH , universite of Ljubjana, p 3

3. Learning techniques help to achieve learning with its different mental, skills and emotional aspects.

4. Learning techniques help overcome difficulties in learning certain topics.

5. Educational techniques help increase students' motivation to learn, participate and pay attention. 6. Educational techniques help self-learning³.

³ Asma Lutfi Hamad¹ , Hayah Mohamed Abouelnaga² , Ahmed Baz mohamed metwally³ , Hany ShoShan⁴ and Nisren Farouk Moawad⁵, The Importance Of E-Learning To The Students And Teachers, JOURNAL OF LANGUAGE AND LINGUISTIC STUDIES, 18(2), 952-968; 2022, p 957