Digital Competences and new learning environments

Alessandra de Vitis

Training of school staff about *digital competences* *is necessary to guarantee an effective and full correlation between* *educational and organizational innovation* *and digital technologies.*

Key Contents

1. PNSD Mission and Vision;

2. Digital Culture and innovation culture;

3. PNSD-PTOF integration;

4. Digital teaching integrated environments;

5. *Scenery and didactic processes for integration of digital learnong environments and use of BYOD;*

6. Exploitation of innovative practices;

7. School and regional community;

8. Methodologies and active and cooperative teaching processes testing and spreading;

9. Teaching activity documentation;

10. *Open Educational Resources - OER;*

11. Digital online archives and sources reliability;

12. *Digital learning contents construction technics;*

13. *copyright & open licences;*

14. *open source & knowledge sharing;*

15. *digital documentation & school libraries;*

16. *ICT for inclusion;*

17. *Media education;*

18. *social media policy & professional use of social media;*

19. *Collaboration & communication in the net;*

20. *digital citizenship;*

21. *Informations research, selection & organization;*

Key Contents

22. *(open e big) data literacy;*

23. *Computational thinking*

24. *Digital creativity (making) ad educational robotics*

25. *information literacy*

Basic Instruments : LIM and digital register

- **Lavagna Interattiva Multimediale (LIM)
(Interactive Multimedia Board)**

 Multimedia Interactive board. It is an electronic board on which it is possible to project digital contents and it makes possible to interact with digital contents with hands and special pens.

- It is like an usual blackborad in which you can wrute, erase and draw.

- **Lavagna Interattiva Multimediale (LIM)** But also you can project texts, underline, highlight, show images, enlarge and move them. You can show interactive exercises, show presentations, watch and listen audio and video files, visualize web sites, create new contents using special software.

Basic Instruments : LIM and digital register

Digital register

- It is a software register that uses internet connection (or a school server).

- School provides with its technologies (tablet or pc) on a special platform chosen by 'collegio docenti '.

- It is useful a specific training on it.

PNSD

Piano Nazionale Scuola Digitale (PNSD) digital schol national plan is a document by Education Ministry.

The important pillars are:

- **LIM**
- **2.0 classes (classes as laboratories)**
- **Digital books**
- **WiFi**

PON

Programma Operativo Nazionale (PON) National Operative Program from Miur, called "*For school – competences & spaces for learning*" is a tool to create an high quality educational & training system.

It is supported by European Funds & it has a lifetime of seven years (from 2014 to 2020).

4 axises of PON

- "**1 Axis** - education" for competences , education & and permanent learning.

- "**2 Axis** - Infrastructures for education" enhance schools infrastructures and technological budget.

4 axises of PON

- "**3 Axis-** Institutional and administrative capability" to renforce intitutional capability and to promote efficient Public Administration (E-Government, Open data & Transparency, National Evaluation System, menager & officers training).

- "**4 Axis-** Technical Assistence " intended to improve the application of the program within the renforcement of funds management.

- *Internet*
- *BYOD*
- *Coding*

Coding

Coding by playing

https://www.programmailfuturo.it/

LMS
(Learning Management System)

1) Moodle

https://school.demo.moodle.net/

Moodle is a learning platform designed to provide educators, administrators and learners with a **single robust, secure and integrated system** to create **personalised** learning environments.
As a **highly flexible** LMS, Moodle can be used to conduct courses online or to support **face-to-face teaching, learning and training**. It can also be extended with over 500 plugins for assignments, quizzes, grading, certification, and social and collaborative learning.
Moodle is an acronym for '**Modular Object-Oriented Dynamic Learning Environment**'

LMS

(Learning Management System)

2)canvas (Cisco) (cisco.netacad.net)

Canvas is a way to simplify teaching and learning by connecting all the digital tools teachers use in one easy place.

https://www.canvaslms.com/try-canvas