Media-Information Literacy

Purpose of the Course

- Understanding information
- Information society
- Information and Computer literacy
- -Processing information
- -Dealing with information
- -Methods for Data Analysis and Visualization



Structure of the course

- Introduction to ICT and MIL: general ideas and philosophical concepts
- -A set of theoretical and practical problems aiming to development of practical skills
- -Basics of math methods for data analysis (interpolation and approximation methods)
- -Practical tasks
- -Visualization of data

ICT + MIL

Rating system

Activity	Credit /points/
Giving explanation on a problem	3
Giving a talk on a special subject	3
Completing a set of exercises	12
Giving explanation on a problem from Homework	2
Home test work	10

Conversion

Total Score	Grade
55 - 100	Pass

- Part I. Introduction:

general ideas & MIL concept

Subject and Structure of the Informatics

Informatics – field of science, studying laws and methods of information processing

→ It forms:

- 1) Definitions for other scientific fields
- 2) Base and Principles of:
 - information processing,
 - application of Computing Technologies and
 Information Technologies for solving practical problems

→ Special Subjects in CS:

- 1) Theoretical computer science/Foundations of Information Science
- 2) Architecture of Computer & Computing Technologies
- 3) Programming
- 4) Information Systems & Technologies
- 5) Artificial Intelligence
- 6) Development and implementation of math methods and models © Y. Lobanov, Moscow State Pedagogical University, 2020 6

Some definitions...

- Media
- Multi-Media
- (Multi-)media-information Literacy
 - Conceptual aspects
 - Practical aspects

Some definitions...

tools used to store and deliver information or data



Examine the Wiki page for media:

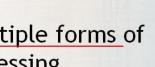
- Media (communication), tools used to store and deliver information or data
 - Advertising media, various media, content, buying and placement for advertising
 - Broadcast media, communications delivered over mass electronic communication networks
 - · Digital media, electronic media used to store, transmit, and receive digitized information
 - Electronic media, communications delivered via electronic or electromechanical energy
 - · Hypermedia, media with hyperlinks
 - Interactive media, media that is interactive
 - Mass media, all means of mass information and communication
 - MEDIA Programme, a European Union initiative to support the European audiovisual sector
 - Multimedia, communications that incorporate multiple forms of information content and processing
 - · New media, the combination of traditional media and computer and communications technology
 - News media, mass media focused on communicating news
 - Print media, communications delivered via paper or canvas
 - · Published media, any media made available to the public
 - Recording medium, devices used to store information
 - Social media, media disseminated through social interactions

The refers term to components of the mass media communications industry, such as:

- print media,
- publishing,
- the news media,
- photography,
- cinema,
- broadcasting (radio and television),
- advertising.

Some definitions...

Multi-Media



communications that incorporate multiple forms of information content and processing

Some definitions... (Multi-)media-information Literacy

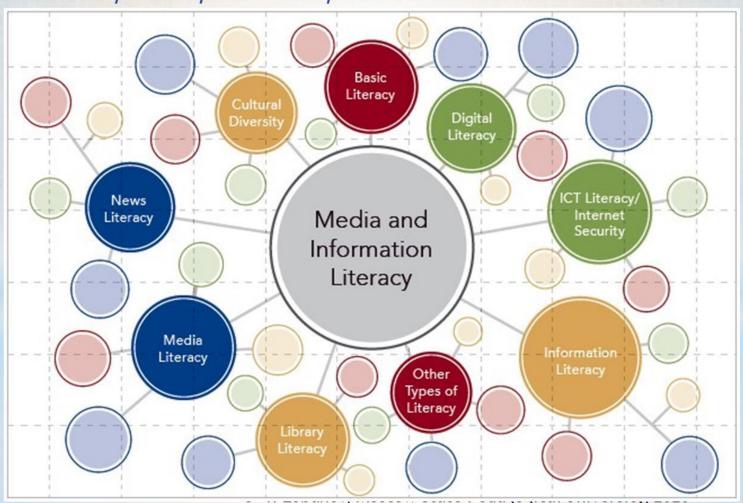
Media and Information Literacy (MIL) is a "combination of knowledge, attitudes, skills, and practices required to access, analyze, evaluate, use, produce, and communicate information and knowledge in creative, legal and ethical ways that respect human rights"

(Moscow Declaration on Media and Information Literacy, 2012).

> The United Nations Educational, Scientific, and Cultural Organization (UNESCO) defines it as the "set of competencies to search, critically evaluate, use and contribute information and media content wisely; knowledge of one's rights online; understanding how to combat online hate speech and cyberbullying; understanding of the ethical issues surrounding the access and use of information; and engage with media and ICTs to promote equality, free expression, intercultural/interreligious dialogue, peace, etc."

Conceptual aspects

Here some philosophic concept to be disclosed



Conceptual aspects Information and media literacy Wiki page

Here some philosophic concept to be disclosed

MIL is a combination of information literacy and media literacy. The purpose of being information and media literate is to engage in a digital society; one needs to be able to understand, inquire, create, communicate and think critically. It is important to effectively access, organize, analyze, evaluate, and create messages in a variety of forms. The transformative nature of MIL includes creative works and creating new knowledge; to publish and collaborate responsibly requires ethical, cultural and social understanding.

Literacy is about more than reading or writing -it is about how we communicate in society. It is about social practices and relationships, about knowledge, language and culture.

UNESCO, Statement for the United Nations Literacy Decade, 2003-2012

Conceptual aspects Information and media literacy Wiki page

Here some philosophic concept to be disclosed

Traditionally, teachers have been the experts sharing their knowledge with children. Technology, and the learning tools it provides access to, forces us to change to being <u>facilitators of learning</u>. We have to change the stereotype of teacher as the expert who delivers information, and students as consumers of information, in order to meet the needs of digital students. Teachers not only need to learn to speak digital, but also to embrace the language of digital natives. Hence, we need new teaching concepts.

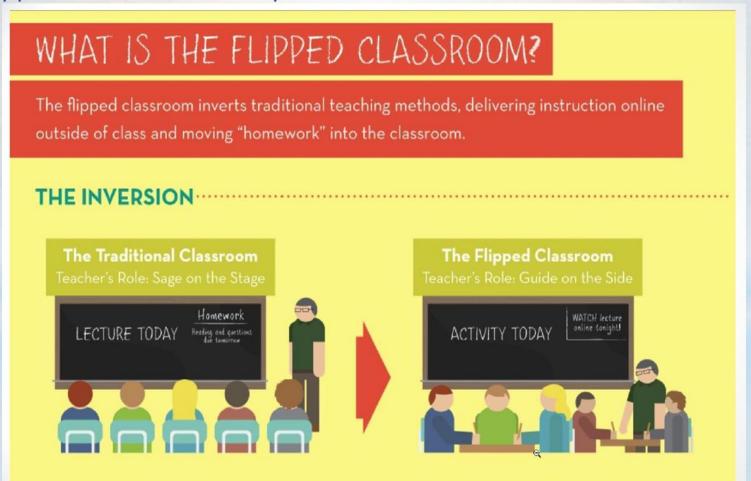
Teaching Concepts

Examples:

- Education 3.0
- Jigsaw (teaching technique)
- Learning by teaching
- Massive open online course
- Rotation model of learning
- Screencast-O-Matic
- Use of specific educational software
- The Flipped Classroom

Teaching Concepts

The Flipped Classroom concept



Conceptual aspects

Here some philosophic concept to be disclosed

"Introduction to Media and Information Literacy" by Arniel Ping:

https://www.youtube.com/watch?v=uCOsDWgfSiM

Media-Information Literacy

Conceptual aspects

Here some philosophic concept to be disclosed

- Information society -vs- Literate society ?
 - Postliterate society ?

An **information society** is a <u>society</u> where the creation, distribution, use, integration and manipulation of <u>information</u> is a significant economic, political, and cultural activity. Its main drivers are digital <u>information and communication technologies</u>, which have resulted in an <u>information explosion</u> and are profoundly changing all aspects of social organization, including the <u>economy</u>, and <u>democracy</u>. In a democracy of the <u>economy</u>, and <u>democracy</u>.

The people who have the means to partake in this form of society are sometimes called <u>digital citizens</u>, defined by K. Mossberger as "Those who use the Internet regularly and effectively". This is one of many dozen labels that have been identified to suggest that humans are entering a new phase of society. [4]

Media-Information Literacy

Conceptual aspects

Here some philosophic concept to be disclosed

- Information society -vs- Literate society ?
 - Postliterate society ?

A **postliterate society** is a hypothetical society in which <u>multimedia</u> technology has advanced to the point where <u>literacy</u>, the ability to read or write, is no longer necessary or common. The term appears as early as 1962 in <u>Marshall McLuhan</u>'s <u>The Gutenberg Galaxy</u>

A postliterate society might still include people who are <u>aliterate</u>, who know how to read and write but choose not to. Most if not all people would be <u>media literate</u>, multimedia literate, <u>visually literate</u>, and <u>transliterate</u>.

Aliteracy (sometimes spelled alliteracy) is the state of being able to read but being uninterested in doing so.

Transliteracy is 'a fluidity of movement across a range of technologies, media and contexts'. It is an ability to use diverse techniques to collaborate across different social groups.

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Media-Information Literacy

Conceptual aspects

Concluding using

Media and Information Literacy... The promise of educational change by Carolyn Wilson http://www.ifapcom.ru/files/News/Images/2012/mil/Wilson.pdf

What is Media Literacy?

A repertoire of competencies that enable students to understand how the media operate, how they construct meaning, how they can be used, and how to evaluate the information they present

Conceptual aspects

MIL adds:

- -the identification of an information need
- knowledge of where and how to access information
- -knowledge of how to retrieve information, evaluate, store and ethically use information

External links & resources







Media and Information Literacy...

The promise of educational change
By Carolyn Wilson

http://www.ifapcom.ru/files/News/Images/2012/mil/Wilson.pdf

.........

Media-Information Literacy

Practical aspects: advanced/scientific user's level Some practical needs and applications to be mentioned:

- ✓ Creating information: text, tables, video, audio,...
- √ Processing information
- ✓ Analyzing information (as well using math methods for that)
- √ Visualizing information:
 - Plotting data
 - Smoothing, interpolating, approximating data
 - · Animating data
- ✓ Representing (Communicating) information:
 - Writing papers
 - Creating media-content
 - · Publishing papers: submission, peer-review, acceptance
 - Delivering a talk/poster presentation during a conference
- ✓ Being responsible for the information:
 - · editing/reviewing papers, citing papers