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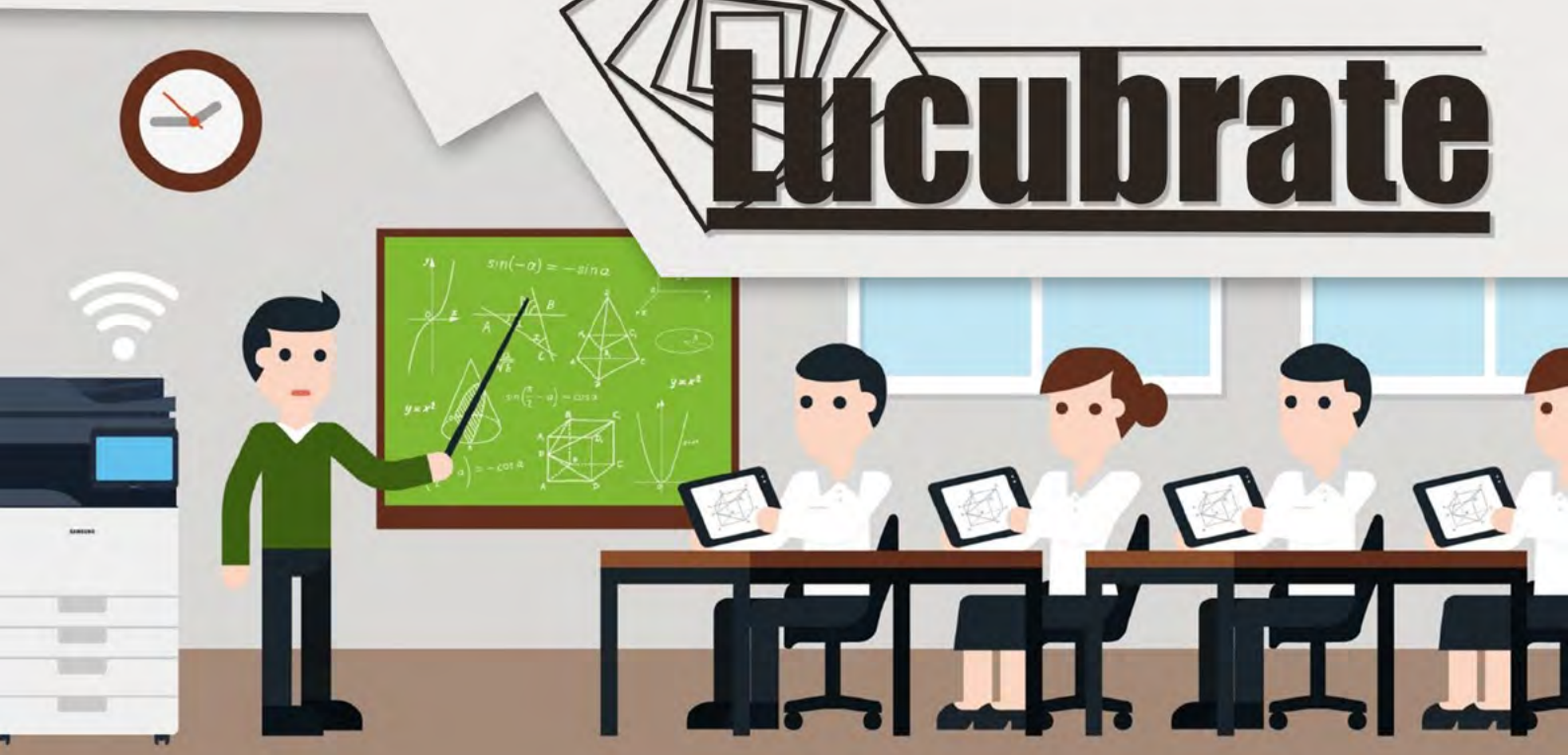
Lucubrate



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Inside

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WHO WILL DECIDE HOW THE FUTURE SHALL LOOK LIKE?

Programming knowledge is an important skill for the future; actually, it is an investment for a future. The Artificial Intelligence (AI) and The Internet of Things (IoT); the revolution of electronics will require many people having programming knowledge and skills. Those persons may shape the future.

Look to Finland

The key factor for Finland's success in technology is a free of charge education. Public education in Finnish began in the 1860s by the Lutheran Church. A national school system, independent of the Church, was set up in 1866. Three years later, a Supervisory Board of Education was established under the Ministry of Education to inspect, monitor and govern the school system in Finland. General compulsory education was prescribed by law in 1921. Up until the 1970s, compulsory education was provided in the six-year primary school. After four years of primary school, a part of each age group moved up to the secondary school, which was divided into the five-year lower secondary school and the three-year upper secondary school. In the 1970s, a nine-year compulsory school common to the entire age group, i.e. the comprehensive school, was created on the basis of the folk school and lower secondary school.

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is a teacher in Vocational education in Tampere Finland. He has done teacher's work almost 20 years. Before that career, he did programming for Nokia telecommunications. He has also been a salesperson work in HEPAC-branch. He holds a M.Sc. in Automation and a Bachelor's in HEPAC and Telecommunications.

The Finnish industry

When Finland lost the Second World War, the country had to pay war reparations to the Soviet Union. This created the start of the Finnish industry. During decades, the Finnish industry has changed from paper and metal industry towards high technology industry. Today Finland is well known of high technology products and programming knowledge.

All Finnish pupils learn programming in primary and secondary school

The development of the industry has become a part of the Finnish National Agency for Education. The new national core curriculum includes a programming education. All Finnish pupils gets skills for programming in compulsory schools. The programming education is not a subject in the curriculum. However, the programming is included in mathematics and in some other subjects.

Train for the future

Programming knowledge is a good skill for a future; actually, it is an investment for a future. AI, IoT, revolution of electronics will require many people having programming knowledge and skills. Today you will use many devices that has an embedded system where someone has created the program that rule the device. To become a good programmer it requires ability to solve the problem

i.e. ability to a logical thinking, ability to a creative thinking and ability to understand the problem and the customer's needs. In addition, of course, you should be an expert in that area you want to make programs. So why not to start learning the programming now? The Lucubrate project provides course in Programming.

WHY IS MICROLEARNING APPROACH A GOOD IDEA TOMORROW?

The idea with microlearning is to give small pieces of learning instead of longer lessons or a day training program. However, if you stop there, you only go half the way. The small piece of learning should be followed up in a way you can recall and put the small piece of learning together with your experience and knowledge. The small pieces of learning need to be chained with rest of your knowledge.

The microlearning can be an ideal instructional approach for many situations because:

- Information changes quickly
- People find it difficult to keep up with things
- Less time consuming
- Can learn any places and any time
- Resources are available online
- You can use your smartphone

Why microlearning?

"Learning is an understanding of how the human brain is wired to learning rather than to an approach or a system. It is one of the best and most frequent approaches for the 21st century learners. Micro learning is more interesting due to its way of teaching and learning the content in a small, very specific burst. Here the learners decide what and when to learn. Content, time, curriculum, form, process, mediality, and learning type are the dimensions of microlearning" [2].

It is easy to believe that microlearning can solve all kind of learning needs. However, like any type of learning system, micro learning has strengths and weaknesses.

Microlearning is an emerging paradigm that addresses a learner's need to receive the information they need, when they need it, and in the appropriate context. Each video in the series explores a different area of micro learning – introducing and defining the term, highlighting modern examples, describing why it is gaining popularity, outlining the affordances, tracing the roots and evolution, as well as outlining the requirements of a micro learning experience [3].

Microlearning

is a holistic approach for skill based learning/education which deals with relatively small learning units. It involves short-term-focused strategies especially designed for skill based understanding/ learning/education [1].

[1] Jaywant J. P . Patil Journal of Evaluation in Clinical Practice in Volume 5, Issue 4 December 1999

[2] Geng, Sun et.al: Profiling and Supporting Adaptive Micro Learning on Open Education Resources (IEEE Xplore: 16 January 2017)

[3] Freeman, Lauren Elizabeth: Microlearning, a video series : a sequence of videos exploring the definition, affordances, and history of microlearning (The University of Texas at Austin, December 2016).

New Year 2018

NKB established The Lucubrate project in 2017. We meet the year 2018 with great expectations.

Perhaps this is the year you focus less on what others are doing, and more on yourself and your own skills. Lucubrate provides the conditions in which you can learn.

(Lucubrate https://lucu.nkb.no/)

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The world is changing all around us. A skilled population is the key to a country's sustainable development and stability. We know that obtaining a quality education is the foundation to improving people's lives and sustainable development. To contribute to skill people over the next ten years and beyond, we must look ahead, understand the trends and forces that will shape our business in the future and move swiftly to prepare for what has to come. We must get ready for tomorrow today. We will make it possible for youth and young adults all over the world to gain skills they can use in the labour marked or to create their own jobs. We will make it possible for every person to have lifelong learning opportunities to acquire the knowledge and skills they need to fulfil their aspirations and contribute to their societies.

The Lucubrate project started in 2017 by NKB. The aim for the project is to become one of the world leader in knowledge transfer independent of the country you live in. The Lucubrate Magazine is a part of the Lucubrate project.

We recognize the creative power that comes from encouraging collaboration and innovation among a team of knowledgeable experts. This unique energy is our greatest competitive advantage in the world marketplace.

- Our purpose is to bring Quality Education and Skills Everywhere.
- Our mission is to support education for building skills to all kind of businesses to create possibilities for jobs and make a lasting difference to people's lives. Globally. 24/7.
- To be the world leader in knowledge transfer across all borders.

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