

# T-111.2400 Basics of Digital Media

Exam 02.09.2013

Please, write the course name, date, and your name and student number in each answer paper.  
Maximum for each answer is six points.

## 1. Media Services

Define the following concepts:

- Controlled Migration
- Lead User
- Long Tail of Content

## 2. Video

Are the following claims true or false? Right answer gives you +1 point, but false answer -1 point.  
Unanswered claim equals 0 points. Total points can be 0-6.

- Arithmetic coding is based on symbol tables
- Interlacing reduces flickering
- Television uses subtractive colour system
- In Zig-zag order, the high frequencies are before low frequencies
- Huffman-coding removes extra noise from picture
- YUV color system has one chrominance and two luminance signals

## 3. Graphics Architecture

What are the four phases of graphics pipeline and what happens in each stage?

## 4. MVC

What are the three different parts of MVC design pattern and what are their duties?

## 5. XML

Tell briefly what are the following eXtensible Markup Languages (XML) and what are they used for.:

- XML Schema
- XSLT
- XQuery
- SMIL
- XPath
- XForms