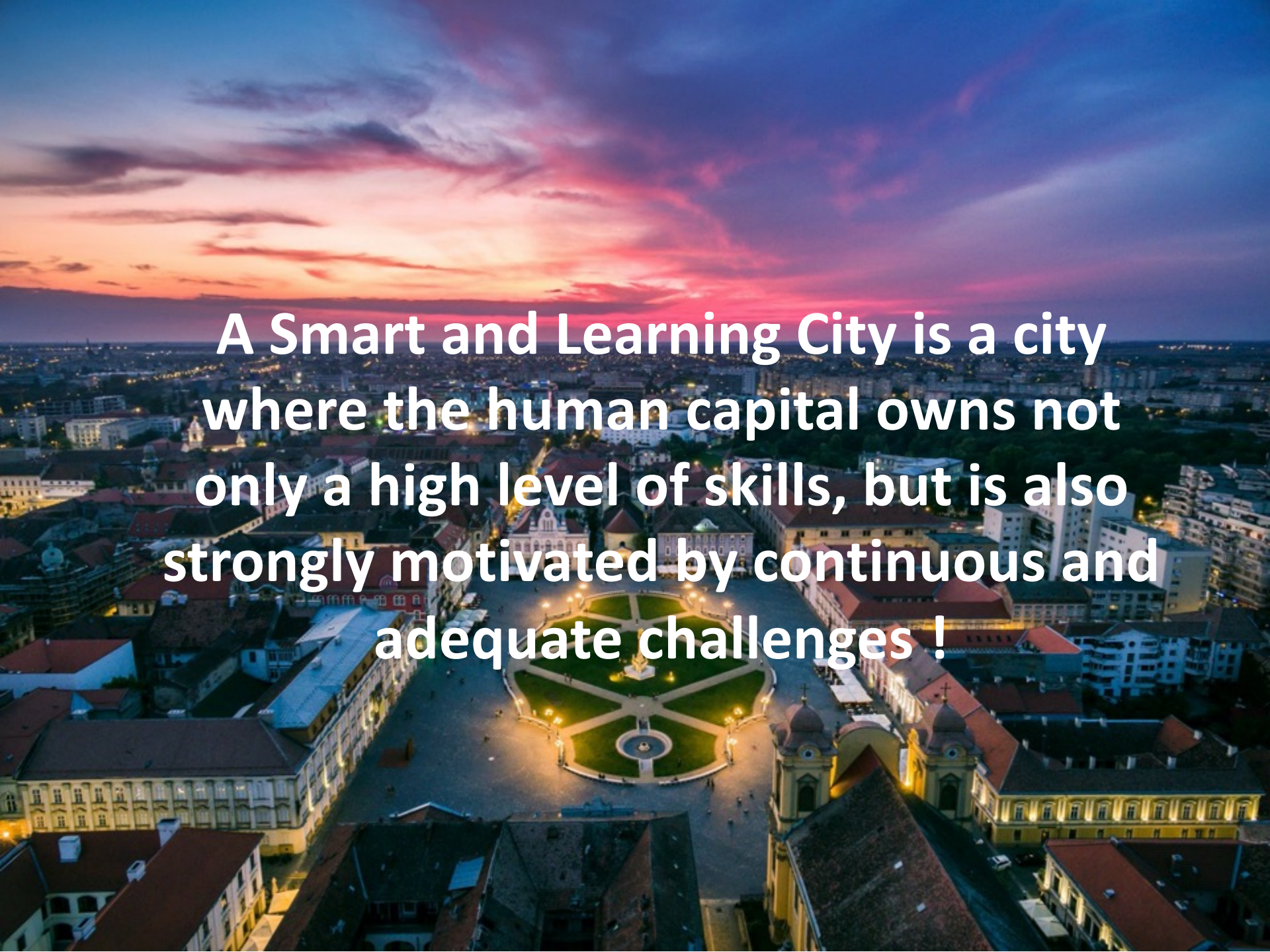




# Prezentare Master TEHNOLOGII MULTIMEDIA

**Prof.dr.ing. Radu VasIU**



An aerial photograph of a city at sunset. The sky is filled with vibrant orange, pink, and purple clouds. Below the horizon, the city lights are visible. In the foreground, a large, illuminated square with a central green area and a fountain is surrounded by historic buildings. A prominent church with a large dome and spire is visible on the right side of the square. The text is overlaid on the image in a large, white, sans-serif font.

**A Smart and Learning City is a city  
where the human capital owns not  
only a high level of skills, but is also  
strongly motivated by continuous and  
adequate challenges !**

# Centrul de Cercetari in Multimedia

- **Din 1996/1997, TST3 - Multimedia**, licenta
  - **Din 2009, Tehnologii Multimedia**, 2 ani, master de cercetare, interdisciplinar
  - **Din 2011, Comunicatii, Relatii Publice si Media Digitala**, 2 ani, master interdisciplinar, colaborare cu Fac. de Stiinte ale Comunicarii
  - **Din 2014 Tehnologii si Sisteme pentru e- Activitati** 2 ani, master de cercetare
- 



# Curricula – master Tehnologii Multimedia

| Semestrul I                                                                                                                                                                                                                                                                                                                                       | Semestrul II                                                                                                                               |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| 2 discipline optional, din setul: <ul style="list-style-type: none"><li>- Modele de date avansate</li><li>- Semnale si sisteme numerice de comunicatii</li><li>- Procesoare si sisteme de achizitie</li><li>- Tehnici moderne de programare</li><li>- Modelare statistica si stocastica</li><li>- Metodologia proiectarii si cercetarii</li></ul> | Disciplina optionala: <ul style="list-style-type: none"><li>- Media digitala</li><li>- Proiectarea sistemelor pentru eActivitati</li></ul> |
| Tehnologii avansate multimedia                                                                                                                                                                                                                                                                                                                    | Tehnologii Web 2.0                                                                                                                         |
| Programare multimedia                                                                                                                                                                                                                                                                                                                             | Interactivitate si usabilitate                                                                                                             |
| Etica si integritate academica                                                                                                                                                                                                                                                                                                                    | Design grafic                                                                                                                              |
| Practica de cercetare                                                                                                                                                                                                                                                                                                                             | Practica de cercetare                                                                                                                      |



# Curricula – master Tehnologii Multimedia

| Semestrul III                                                                                                                                                                                                                                          | Semestrul IV                      |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|
| Disciplina optionala: <ul style="list-style-type: none"><li>- Antreprenoriat si inovatii digitale pentru mediul de afaceri</li><li>- Comert electronic</li><li>- eGuvernare institutionala</li><li>- Sustenabilitate si inovare in societate</li></ul> | Stagiu de practica de cercetare   |
| Tehnologii instructionale                                                                                                                                                                                                                              | Elaborarea lucrarii de disertatie |
| Servicii electronice digitale                                                                                                                                                                                                                          | Examen de disertatie              |
| Sisteme Internet of Things                                                                                                                                                                                                                             |                                   |
| Practica de cercetare                                                                                                                                                                                                                                  |                                   |

# Competente asigurate

## Cadrul Competențelor Digitale pentru Cetățeni (DigComp 2.1)

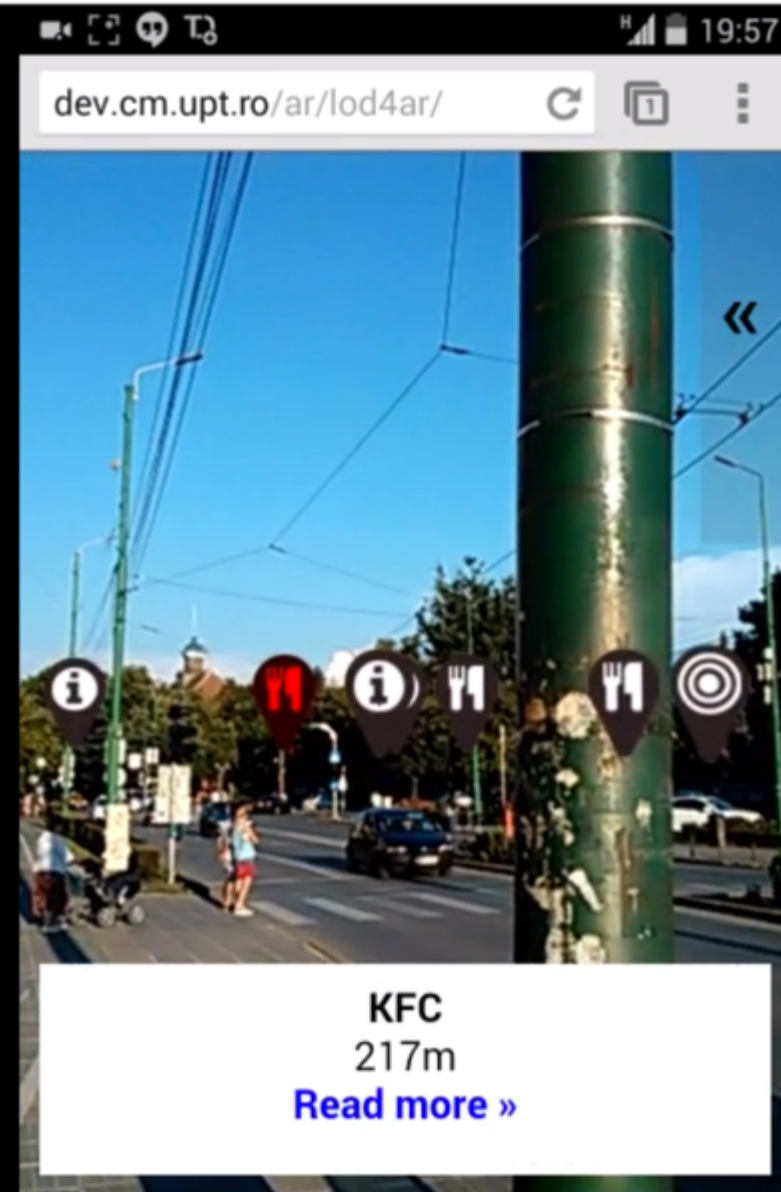
Categorii de competente digitale:

1. Information and data literacy,
2. Communication and collaboration,
3. Digital content creation,
4. Safety,
5. Problem solving.



# Domenii creative in dezvoltare

## Realitate augmentata / realitate virtuala



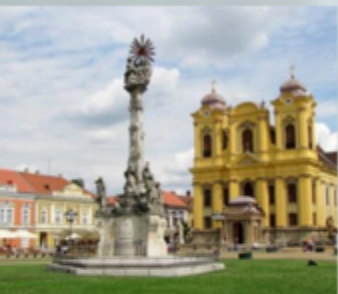


# City Art TM



TIMISOARA  
CITY ART

Cu City Art TM descoperi monumentele și operele de artă din Timișoara



# Timisoara City Art

# Monumente



Santa Treime/ Statuia Ciumei



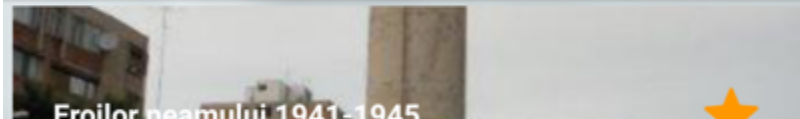
Sfanta Maria si Sfantul Nepomuk



Victoria sau Monumentul Fidelitatii

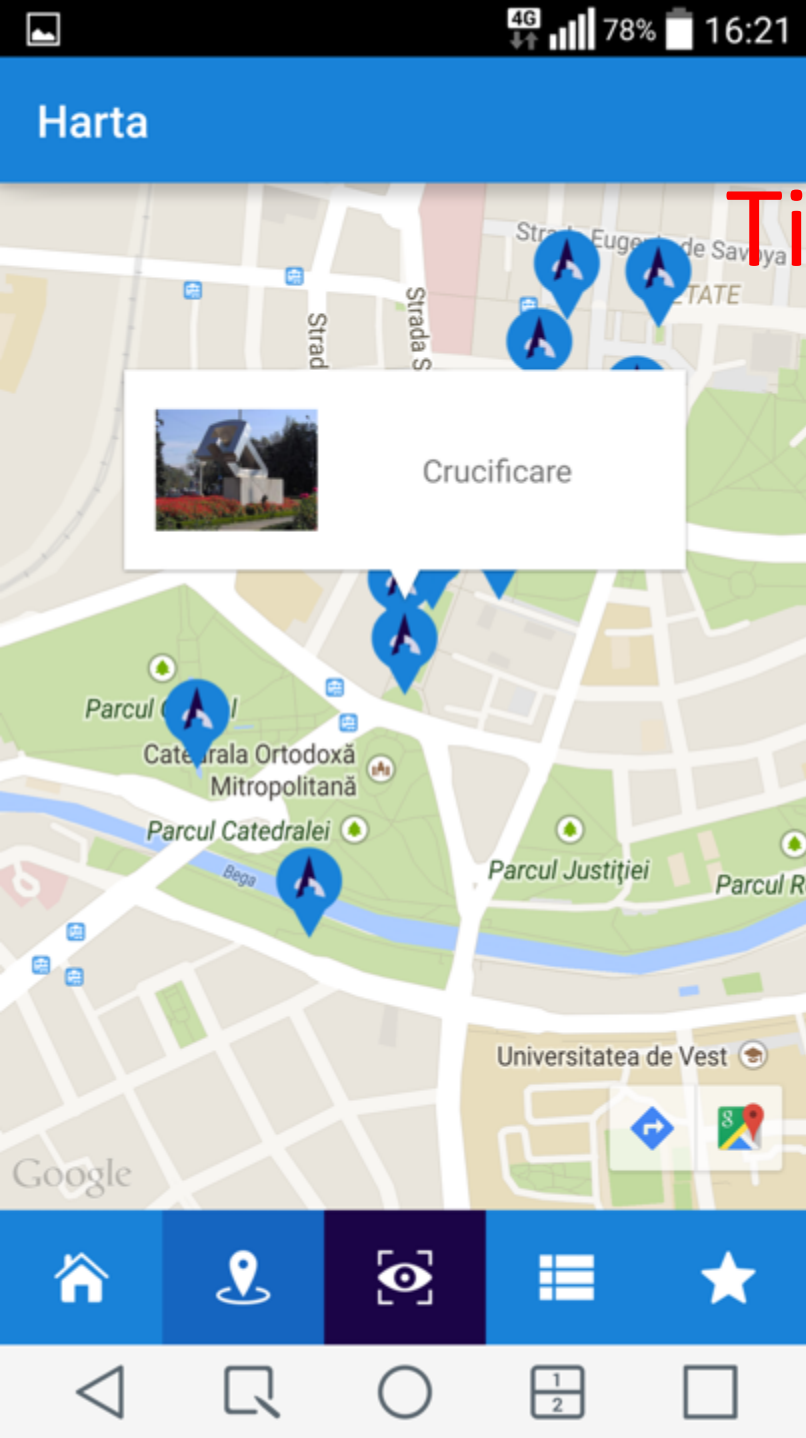


Lupoica

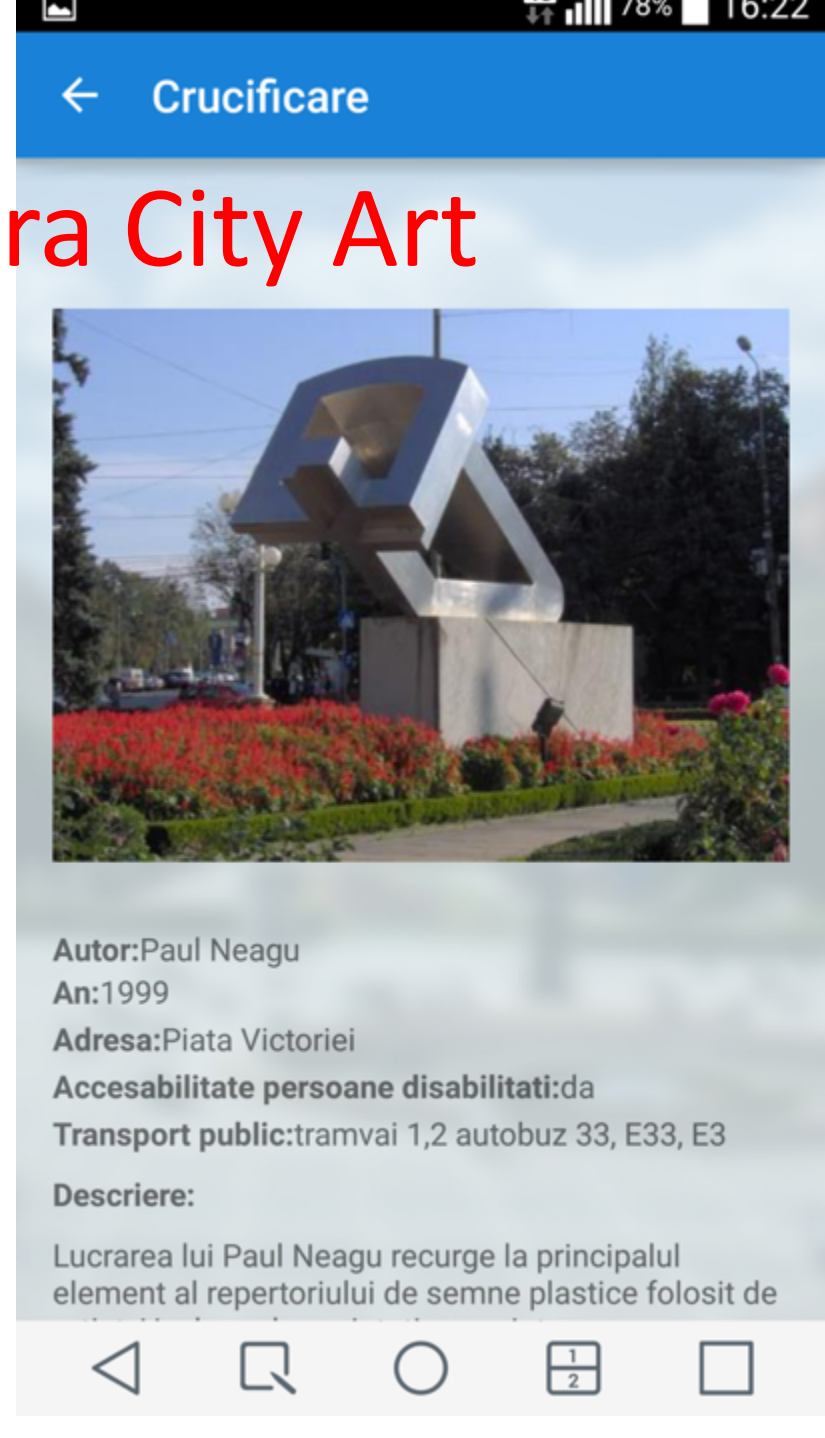


Eroilor neamului 1941-1945





# Timisoara City Art







# Timisoara City Art Augmented Reality





# Domenii creative in dezvoltare

## Internet of Things: Data collection, public apps

Bazat pe seturile de date deschise livrate de autoritățile și instituțiile administrative, aplicația  
provoacă surprize și disconfort să fie vizibilă între i

PREZENTARE

Utilizare fara logare





Utilizator: 1259895848

Filtre

Atentie! Filtrele activate de utilizatorii nelogati vor ramane active pana la inchiderea sesiunii. Pentru a pastra setarile si pentru a putea primi notificari va rugam sa va inregistrati.

Oras

-- Toate --

Institutie

-- Toate --  
RATT  
E.ON  
Enel

Tip

-- Toate --

Incepend cu data

Pana la data

Impact

  Modificări de trasee RATB, cu ocazia partidei de fotbal România – Irlanda de Nord  
26 Nov 2014 București RATB  
În vederea desfășurării meciului de fotbal dintre reprezentativele României și Irlandei de Nord, în ziua de 14.11.2014, pe Stadionul Arena Națională, traficul rutier va fi restricționat pe Str. Vatra Luminoasă și pe Bd. Pierre de...

  Continuarea lucrărilor la apă și canalizare pe B-dul General Ion Dragalina  
26 Nov 2014 Timișoara Aqualim  
Aqualim SA anunță că, vineri, 28.11.2014, vor continua lucrările de reabilitare a sistemului de alimentare cu apă și de canalizare pe Bulevardul General Ion Dragalina, pe tronsonul cuprins între Bulevardul Regele Carol I și Splatul Tudor Vladimirescu, pe partea dreaptă în sensul...

  Desfiintare statii linia 40  
24 Nov 2014 Timișoara RATT  
Pentru evitarea intarzierilor și respectarea orarelor se vor aplica, incepand de luni, 17 noiembrie, cateva modificari pe linia 40. Astfel, autobuzele vor circula pe traseul Posta Mare – Calea Lipovei fara a mai intra in parcare la Iulius Mall.

  Modificari ale liniilor 5 si 6  
24 Nov 2014 Timișoara RATT

# Domenii creative in dezvoltare

## Open Data – Open Science

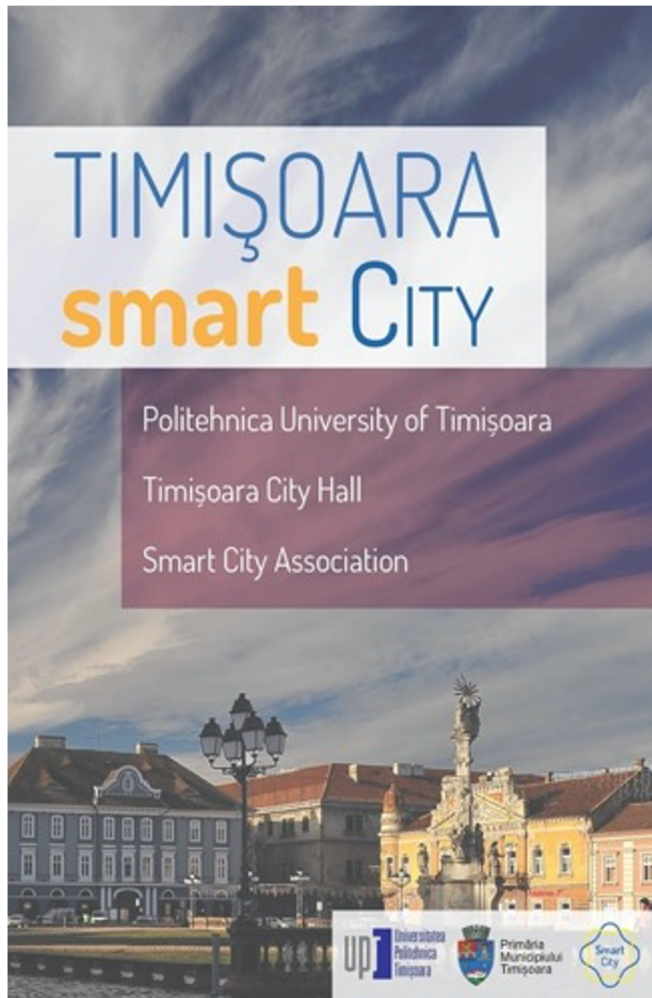


<http://mysmartcity.ro/>



# Domenii creative in dezvoltare

## Smart City



### European Innovation Partnership on Smart Cities and Communities

Clusterul “Integrated infrastructure & processes across Energy, ICT and Transport”

Focus pe “Open Data Landscape”

Timișoara: Angajament nr. 7711  
(<http://eu-smartcities.eu/>)



# Domenii creative in dezvoltare

## Cultura digitala

### Spotlight Heritage Timisoara

<https://spotlight-timisoara.eu/>

**SPOTLIGHT  
HERITAGE  
TIMIȘOARA**



Despre noi

Repere

Secvențe

Comunitate

Mobil/AR/VR

Povestea ta

Feedback

Evenimente

Contact

Romanian



# Domenii creative in dezvoltare

## Dezvoltarea de platforme si cursuri MOOC



The screenshot displays the UNICAMPUS website interface. At the top, the logo consists of a stylized 'U' made of four colored diamonds (red, yellow, blue, and green) followed by the text 'UNI CAMPUS'. The navigation bar includes links for 'Acasa', 'Cursuri', 'Despre', and 'Contact', along with buttons for 'Autentificare' and 'Inregistrare'. The main heading reads 'Cele mai bune cursuri online, gratuite, din România', followed by the question 'Ție ce ți-ar plăcea să înveți?' and a prominent blue button labeled 'CAUTĂ CURSURI'. Below this, a section titled 'Cele mai noi cursuri' features three distinct promotional tiles. The first tile shows a hand holding a smartphone displaying various app icons, with the caption 'M-commerce (Comert mobil)'. The second tile features the 'Open Education Week 2015' logo, which includes a stylized 'O' and 'E' and the text 'Open Education Week 2015'. The third tile shows the 'Open Education Week 2016' logo, which is a shield-shaped emblem with a stylized 'O' and 'E' and the text 'Open Education Week 2016'. At the bottom of the page, there are three identical footer elements, each containing a small icon, the text '15 mai © 2016', and a small logo.

UNI CAMPUS

Acasa Cursuri Despre Contact Autentificare Inregistrare

Cele mai bune cursuri online, gratuite, din România

Ție ce ți-ar plăcea să înveți?

CAUTĂ CURSURI

Cele mai noi cursuri

M-commerce (Comert mobil)

Open Education Week 2015

Open Education Week 2016

15 mai © 2016

10 aprilie © 2016

10 aprilie © 2016

[www.unicampus.ro](http://www.unicampus.ro)



# Domenii creative in dezvoltare

## Antreprenoriat creativ

**Interreg - IPA CBC**  
Romania - Serbia

Politehnica University Timișoara  
in partnership with  
Intercultural Institute of Timișoara  
announce the  
Training Course

**Creative Entrepreneurship**

**Project management**

**Starting a business**

**Business management**

**Communication**

**Marketing of Arts**

**Digital competences**

**Creative Entrepreneurship**

[elearning.upt.ro](http://elearning.upt.ro)

Registration  
November 20 to December 21, 2017

Online training period:  
January 10 to February 27, 2018

Face-to-face training period:  
February 12 to February 17, 2018

Free of charge  
coffee breaks and lunch included.

or at the  
**e-Learning Center**  
Bul. V. Parvan Nr. 26, Timișoara

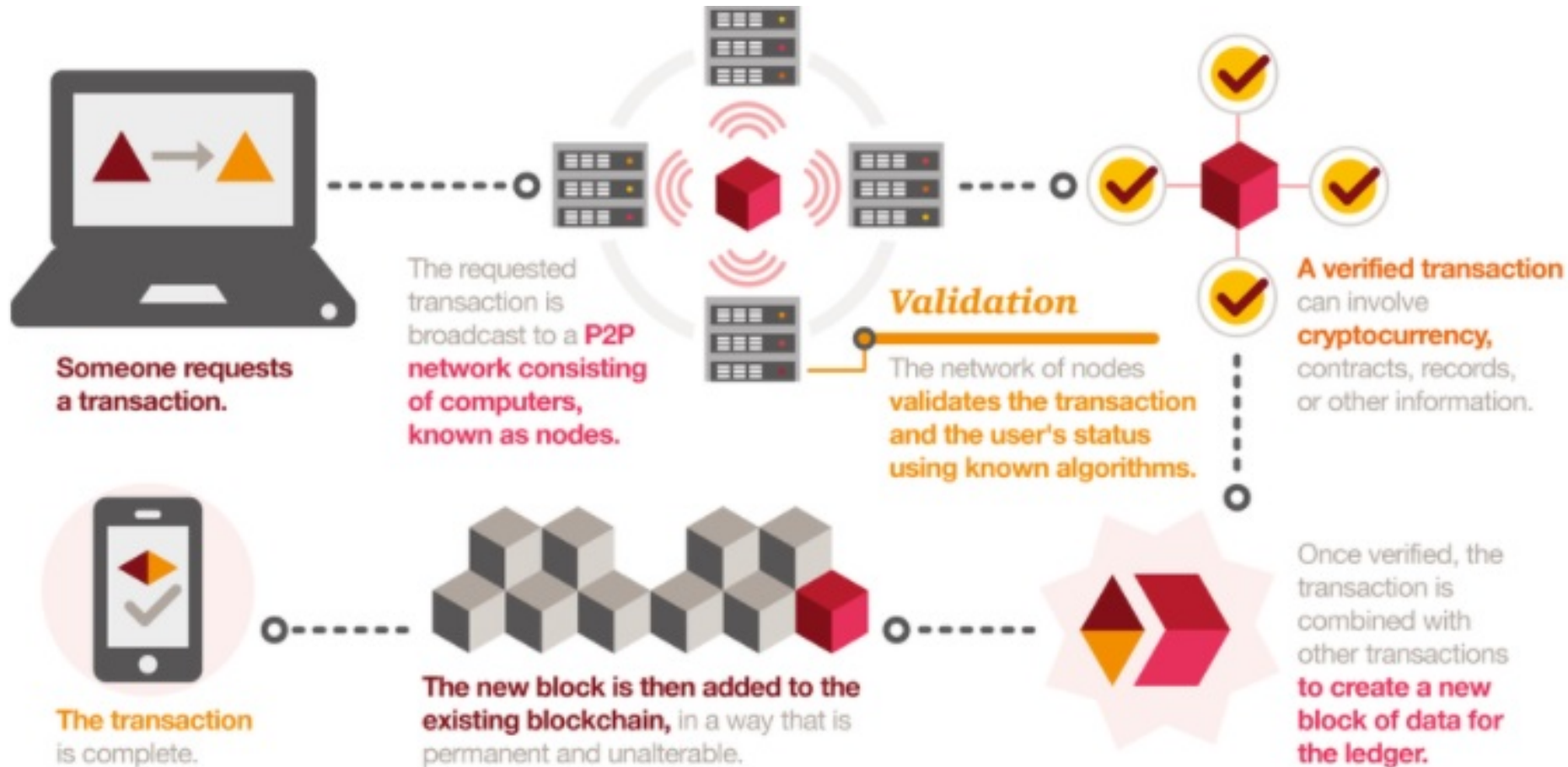
Information online at  
[elearning.upt.ro/proiecte/ro/creative-entrepreneurship-training-course/info/169/223/d](http://elearning.upt.ro/proiecte/ro/creative-entrepreneurship-training-course/info/169/223/d)





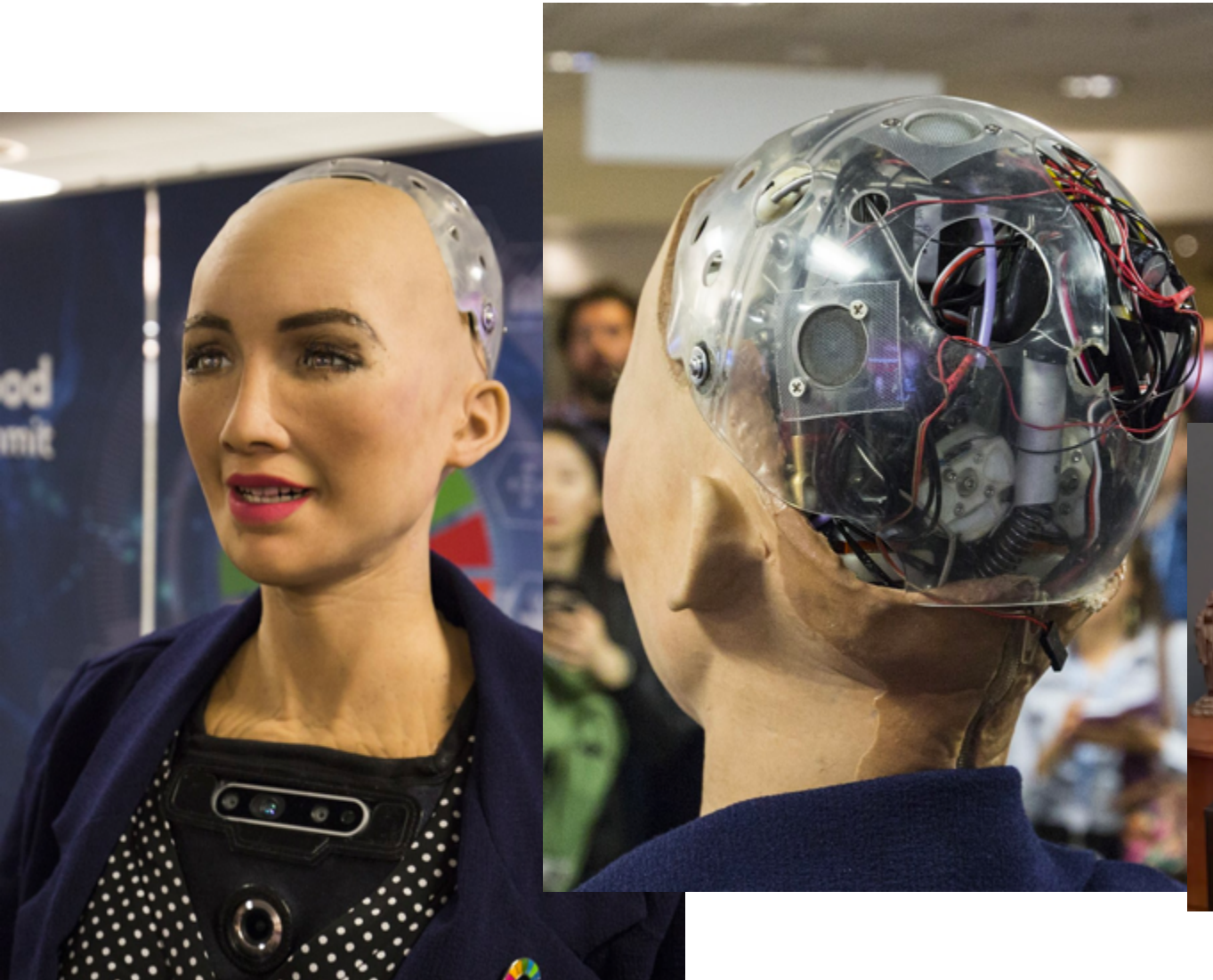
# Domenii creative in dezvoltare

## Tehnologii Blockchain



# Domenii creative in dezvoltare

## Inteligența Artificială



# Oportunitati pe durata studiilor

## Participare la proiecte Europene

Projects:



Rapid-Proto Labs



METOIM



Întreprindere simulată  
pentru studenți







# Improving the Digital Competences and Social Inclusion of Adults in Creative Industries





# DigiCulture Course

– online/ blended learning, free course

UNI  English (en)  You are not logged in. [Log in](#)

**DigiCulture Courses - English**

Home / Courses / DigiCulture / DigiCulture Courses - English

Course categories: [DigiCulture / DigiCulture Courses - English](#)

Search courses  [Go](#)

|                                                                                                                                                                                 |                                                                                                                                                            |                                                                                                                                                      |                                                                                                                                                                |                                                                                                                                                       |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
|  <p><b>WWWIOW_EN</b><br/>The Internet, World Wide Web and introduction to the digital world</p> |  <p><b>DCoPub_EN</b><br/>Digital Content &amp; Publishing</p>             |  <p><b>DPOL_EN</b><br/>Data Protection and Open Licenses</p>        |  <p><b>DDCLM_EN</b><br/>Digital Curation - Digital Libraries and Museums</p> |  <p><b>DSSE_EN</b><br/>Digital Safety, Security and Ethics</p>     |
|  <p><b>DISL_EN</b><br/>Digital Storytelling</p>                                                 |  <p><b>DADA_EN</b><br/>Digital Audiences, Digital Analytics</p>           |  <p><b>SMC_EN</b><br/>Social Media for Culture</p>                  |  <p><b>AVRL_EN</b><br/>Augmented and Virtual Reality</p>                     |  <p><b>MAMUE_EN</b><br/>Mobile Apps and Mobile User Experience</p> |
|  <p><b>DMC_EN</b><br/>Digital Management in Culture</p>                                       |  <p><b>DComPre_EN</b><br/>Digital Communication &amp; Presentations</p> |  <p><b>OMDMT_EN</b><br/>Online and Mobile Digital Media Tools</p> |                                                                                                                                                                |                                                                                                                                                       |

[Data retention summary](#) [Policies](#) You are not logged in. [Log in](#)





 The creation of these resources has been (partially) funded by the ERASMUS+ grant program of the European Union under grant no. 2018-1-RO01-KA204-049368. Neither the European Commission nor the project's national funding agency ANPCDEFP are responsible for the content or liable for any losses or damage resulting from the use of these resources.





# OPEN VIRTUAL MOBILITY

ACCESSIBLE OPPORTUNITIES FOR VIRTUAL MOBILITY SKILLS IN HIGHER EDUCATION

## Designing the Virtual Mobility Learning Hub for Higher Education in Europe



<http://www.openvirtualmobility.eu>

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Open  
Virtual  
Mobility



Erasmus+



# ABCtoVLE Erasmus+ project - UPT



# IoT ProtoLabs project



## Partners:

- Haaga-Helia University of Applied Sciences (Finland)
- University of Leiden (The Netherlands)
- Politehnica University of Timisoara (Romania)
- Technical University Delft (The Netherlands)
- Bruno Kessler Foundation (Italy)
- 247GRAD (Germany)
- Houston inc. Consulting (Finland)



[www.iotprotolabs.eu](http://www.iotprotolabs.eu)



GirlsTech 



# GirlsTech



#GirlsTech



# Oportunitati

Participare conferinte, workshop-uri

Opening Up Education

Open Education Week

Digital competencies – culture, creative industries



# Oportunitati

## Prezentare Petrisoara Rata si Patricia Todor

Open Education  
Week 2020





# Oportunitati

Mentoring  
Ambassadorships  
High school activities





# Oportunitati

## Colaborare universitate – Industrie



# Oportunitati pe durata studiilor

Burse Erasmus la universitatile partenere:

- peste 25 acorduri bilaterale

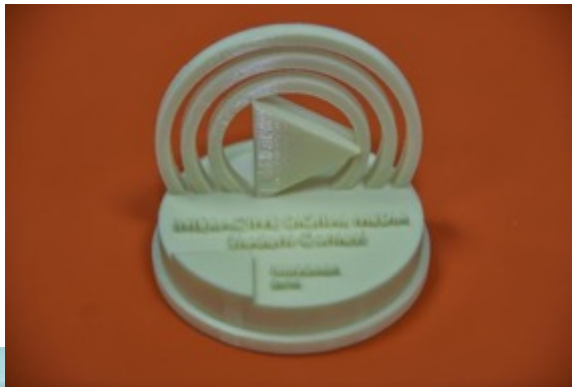
Franța  
Germania  
Spania  
Italia  
Marea Britanie  
Austria  
Grecia  
Finlanda  
Suedia  
Lituania  
Norvegia  
Turcia  
SUA





# Interactive Digital Media Student Contest

Din 2014





# Interactive Digital Media Student Contest

## Sectioni:

- Web Development
- Mobile development
- Audio-Video production
- Graphic Design
- Internet of Things



# Activitati de actualitate

## Dezvoltare Muzeul Tehnic Digital al UPT



# Activitati de actualitate

## Dezvoltare aplicatii AR/VR pentru UPT-100 ani





# Activitati de actualitate

## Dezvoltare aplicatii virtuale pentru Timisoara Capitala Culturala Europeana 2021



# Activitati de actualitate

## Dezvoltare cursuri deschise de tip MOOC





# Perspective

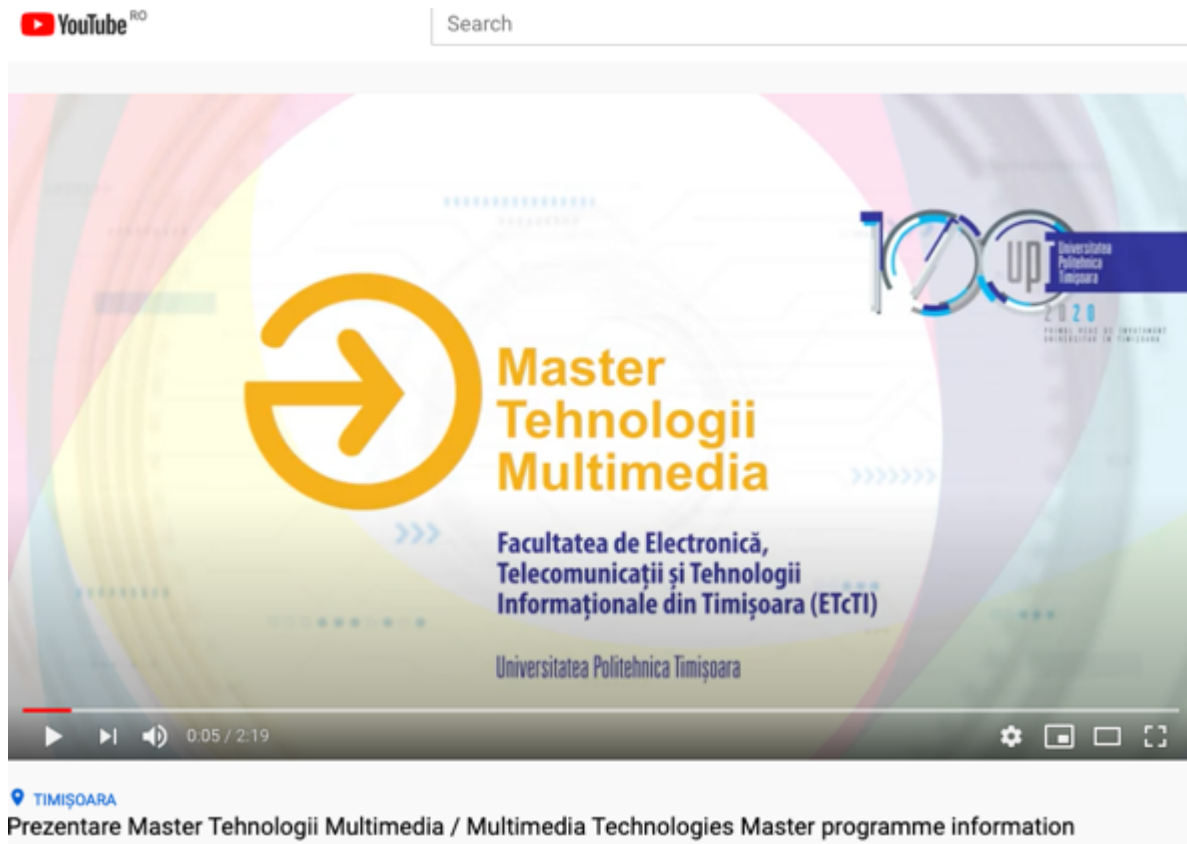
Doctorat - 17 teze sustinute in domeniu





# Prezentare master YouTube

<https://youtu.be/39rybzo3tTY>



# CONTACT

## Profesor Radu VasIU

Director

Centrul de Cercetari in Multimedia

Tel: +40.256.403328

Email: [radu.vasiu@upt.ro](mailto:radu.vasiu@upt.ro)

<http://www.cm.upt.ro/staff/raduvasiu>

