Friday, October 12, 2018

France digital university. + Magazine Issues 3-4 : index.

My first at the Observatory, on Saturday 13, for the meeting with the technical and educational team of @Obs_Paris and then, on the Campus Pierre and Marie Curie, on Sunday, at the Science Village and Laboratory visit with @lkb_lab @Sorbonne_Univ_

These projects are the subject of translation agreements, for the sharing of content and the influence of the institution carrying the Digital Campus project beyond France.

TICE cell:

Information and Communication Technologies for Education of the Paris Observatory, which is part of the Training-Teaching Unit,
organizes the creation and updating of digital content and provides a environment for authoring content.

It also ensures the smooth running of the students training platform.

The TICE unit uses software and develops new ones if necessary for the creation of digital content and the training platform.

The project team:

The web-server of the project (fully managed by CETI)

CEllule TIce (CETI) Cell Teaching and Information Technologies.

The goal of CETI:

Cell Teaching and Information Technologies, is to use information and communication technologies for teaching and dissemination of knowledge

Achievements concern in particular Open and Distance Training (FOAD) based on written or filmed resources, MOOCs made available on the internship platform and creation of resources as courses, conferences, TP, animations, applets, etc.

All resources and software developments made by the team are distributed under GPL licenses.

France Digital University (FUN) is originally, a project to promote the use of open and massive online courses (designated in English by MOOC, massive open online course)

Initially, the courses themselves were hosted on a platform separate from the portal and accessible after registration.

Technically, the portal is supported by the American open edX open source software provided by one of the giants of the sector, the american edX.

At its launch, the platform is endowed by the government with a budget of eight million euros.

At its creation, three actors are involved:

First of all, INRIA for the deployment of the platform, then CINES for the design, administration and hosting of the IT infrastructure, and finally RENATER for providing the network infrastructure.

Since October 2016, accommodation is provided by Cloudwatt.

Custom Astrophysics:

The digital campus.

The project Astrophysique sur Mesure, was initiated in 2001 in the form of a Digital Campus, by a consortium of institutions:

- **University Paris 6**
- **University Paris 7**
- **University Paris 11**
- **Palace of discoveries (Palais des decouvertes)**
- **IUFM of Midi-Pyrénées**
- **Paris Observatory :Host Institution**

Other institutions are currently participating in the project:

- **Lille1 University**
- **IMCCE**
- **Laboratory of Astrophysics of Marseille - Aix Marseille University**

It currently includes 4 distance learning modules, a digital modeling project, and a basic math exercise project in astrophysics:

- **Windows on the Universe.**

A Bachelor's degree (L2, L3) or Master's degree (M1), allowing to obtain a University Diploma or credits (ECTS), within the framework of the LMD, for any student wishing to register a astrophysical course in his training project.

- **Astronomy and Celestial Mechanics.**

A university degree at the baccalaureate level, in tutored formation.

- **Astronomy for teachers.**

A training in astronomy for teachers of schools, colleges or high schools

- **Astrophysics for University Online.**

Corresponds to the contents of the module Windows on the Universe, with the graphic charter of University Online.

- **Digital Laboratory for the Research Master.**

Course materials and numerical simulation developments.

- **Astronomy in learning Mathematics whose objective is to use Astronomy as a source of examples in Mathematics learning.**
- **The site map follows the Mathematics program of the license.**

Distance learning and digital resources were developed within the framework of the Customized Astrophysical Digital Campus, created in 2001 and managed by the Observatoire de Paris.

Tutored distance learning courses:

University degrees at the Bachelor and Master levels.

A digital laboratory at Master level.

Lany interactive content, such as teaching support or personal training,

Computer software applications, Digital campus tools.

The digital training materials have been produced in research laboratories with the aim of providing rigorous knowledge, in an innovative and accessible way in various forms, courses, exercises, multiple choice, practical work, interactive applets, simulation tools and visualization of physical or astrophysical phenomena, multimedia tools.

The modules provide a diverse perspective, where learning astronomy and astrophysics links with other fields of science, physics and mathematics. They rely on the rich iconography of the discipline (snapshot NASA, HST, ESO), and develop related learning: decoding, critical reading and analysis of a document, an image, a graph.

Magazine Update:

The creation of multimedia tools is recognized by the Paris

Observatory as a teaching task.

The next edition of the magazine is a little late because it is consistent with many topics.

it is longer than expected to layout.

Some other things start recently, so there are no things with films for now: photo rolls or video on 8mm.

Index:

Issue 3:

- **The light**

- **1. LUX**
- **Wave mechanics: Notions**
- **Electron**

- **2. Oscillator**
- **3. 8mm camera**
- **4. Atom**

- **Optical Astronomy**

- **OPTICAL NOTIONS FOR AMATEUR ASTRONOMERS;**

Seventeen chapters dedicated to instrumental optics.

Allowing to understand the functioning of the instruments of astronomical observation and to assimilate the scientific findings.

- **Each magazine has a chapter broken down.**
- **Each chapter has several topics**
- **From referenced texts**

Two sectors will be used:

Experimental research and university studies at the Observatoire de Paris.

Issue 4:

- **Geometrical optics**

- **PHOTOGRAPHY, BRIDGE BETWEEN SCIENCE AND ART:**

- **Text by Monique Sicard Communication and Policy Laboratory, CNRS Mimesis by default.**

Transfers of Science to the Art sometimes takes place by default, when the photograph does not meet scientific expectations, when the images record a similarity of appearance without contributing to the

understanding of an operation.

This negative mimesis is always a movement, a tension, but more than an attempt at rapprochement, it is a departure, a flight.

As if the photographic image that does not meet the expectations of the scientists was hunted in the direction of artists.

- **Virtual reality**
- **Nasa**

- **Observe the Moon 1**

+Featuring

- **Matte paper version eco**
- **Glossy**

+ on order in French.

Posted by Veronica IN DREAM at 10:34 AM