Training courses proposed by the Observatory

Date de mise en ligne : Monday 4 February 2013

Description :

Élève ou étudiant, professeur des écoles, collèges ou lycées, animateur scientifique, passionné, curieux ... Vous cherchez de l'information sur les études supérieures, vous cherchez une formation, vous souhaitez développer votre culture scientifique ...

Observatoire de Paris - PSL Centre de recherche en astronomie et astrophysique
The Observatoire de Paris, is a public institution for the furtherance of scientific, cultural and professional activities (EPSCP); its mission is research, teaching, and the dissemination of culture. To fulfil its educative mission, a scientific service, the Training and teaching unit (Unité de formation et enseignement - UFE), organizes courses at all levels of Higher Education in the Science of the Universe and in Space Engineering.

Astronomy is a universal science, which calls upon many fields of physics, mathematics and chemistry; as an observational science, astronomy exploits the latest advances in optics, in electronics, in mechanics, in heat control and propagation, in information technology, in project management etc. Training in instrumentation and measurement, from light collection to signal analysis, are developed. Astronomy also involves theory, in which numerical simulation and modelization are of central importance. Our courses arm the students with knowledge which is valued in all these domains.

The Observatory provides several options:

- **Within the national framework LMD**
  - The doctoral school ED127 «Astronomy Astrophysics in the Ile de France»
  - The Master «Astronomy, Astrophysics and Space Engineering» (M1, M2)
  - The *multidisciplinary Licence within the research university PSL (research and higher education pole «Paris, Sciences et Lettres » of which the Observatory is a founding member)

- **Within the framework of the institution**
  - University diplomas (Diplômes d'Université), 2 in face-to-face teaching, 2 in distance teaching with on-line tutoring
  - Elementary and high school teacher training: patronage of classes, institutional (PAF) and individual internships, observational evenings and internships
  - Free access to numerical and pedagogical resources, available on-line; these have been developed by the researcher lecturers of the TICE cell of the Teaching and Training Unit (cellule TICE de l'Unité de Formation et Enseignement) at the Paris Observatory.
  - The virtual campus "Astronomie Sur Mesure" (astronomy tailored to your needs), which is an on-line site for learning astronomy and astrophysics. It now provides 4 distance teaching modules, a set of software applications for numerical modelling, and exercises to help learn mathematics.
  - web sites and pedagogical videos

Astronomy as a source of exercises in Mathematics (data base of exercises with the answers) ASM- Cellule TICE @Observatoire de Paris
Window on the Universe Diplôme d'Université delivered by the Observatoire. Distance training (L2, L3, M1 level, depending on the cursus) Cellule TICE@Observatoire de Paris

Numerical laboratory Java applets from the numerical laboratory, free access ASM- Cellule TICE @Observatoire de Paris

Astronomie et Mécanique Céleste Diplôme d'Université de l'observatoire, through distance training (L1 level) Cellule TICE@Observatoire de Paris