Sharing inter-faculty teaching experiences for improved training in information literacy

Life Sciences Library
University of Liège, Belgium
IT literacy into the curriculum

2-4 ECTS (on a total of 60)

**Medicine**
- PubMed: 25 - 35h
- Informatics: 15h

**Veterinary Medicine**
- Informatics: 15h
- CAB Abstracts, ...
- Bac 2: 10h
- Bac 1: 15h

**EAHIL Workshop**
Pathways to New Roles
Sharing experiences

Medical Library

IT Literacy Teaching

Veterinary Library

University Centers for Research on Learning & Teaching
Challenges

✓ Creating a new course in the absence of a model

✓ Motivating students
  • Unusual learning experience
  • No obvious objectives
  • No immediate needs

✓ Training large groups (n= 250-350)
Aims

✓ Skills rather than knowledge
✓ Good searching practice
✓ Autonomous and proactive learning
✓ Critical attitude towards information
✓ Life-long learning
Skills *rather than* Knowledge

- **FIRST**: Guided tours of library
- **THEN**: Focusing on activities
Electronic voting

during lectures

With the support of the SMART research center in Education Sciences

*Système Méthodologique d'Aide à la Réalisation de Tests*
1. Travailler en IP en raison de domaines (DNS)
2. Gérer l'envoi du courrier électronique à partir de l'ULg
3. Gérer l'affichage des pages Web permettant d'utiliser le service Webmail de l'ULg
4. No
5. Aucune
6. Toutes
Electronic voting system

✓ Interactivity during plenary lectures

✓ Instant evaluation of teaching effectiveness

✓ Opportunity for student's self-evaluation
  • Pre-tests and post-tests
  • Immediate feedback

✓ Syntheses and revisions

✓ Simulation of exam conditions
Web-based hands-on sessions

Discovery-based learning

With the support of the LabSET research center in Education Sciences

Laboratoire de Soutien à l'Enseignement Télématique
Web-based hands-on sessions

✔ WebCT-supported PubMed workshops
   • Scenario inspired from professional life
   • Alternated exercises and self-evaluations (MCQ)
   • Feedback return for all answers (right or wrong)
   • Advice for good searching practice

✔ Specific advantages
   • Flexible timing and respect for individual rhythms
   • Possibility to start all over again
Problem-based learning

✔ Workshops in IT classrooms
  • Groups of 10 students (2 x 2.5h)
  • In the presence of scientific facilitators

✔ Group works → written reports
Problem-based Learning

✓ Workshops and group works are aimed to

• Analyze the problem (topic)
• Consider terminology
• Select sources (OPAC, PubMed, CAB Abstracts)
• Write requests and set limits
• Record results
• Select relevant references
• Locate materials
Evaluation

✓ Students' performance
✓ Teaching effectiveness
Students' evaluation

✓ According to Bologna Agreement
✓ One-to-one examination (problem solving)
✓ Written examination (MCQ)
  • Optical mark reading system
  • MCQ quality control
Teaching effectiveness

✓ Interviews (qualitative) and surveys (quantitative)
  - General satisfaction
  - Criteria chosen by students to evaluate teaching
  - Perception of course aims and usefulness
  - Measure what they have really learned
  - List difficulties encountered
  - Evaluate the different activities separately

✓ Students' performance at final examination
Conclusions
Inter-disciplinary sharing

- Teaching developed without concertation
  - Medical Library
  - Veterinary Library

- Research in Education Sciences at ULg
  - LabSET
  - SMART
Unified program

✓ New teaching staff for a new library
✓ Common teaching objectives
✓ Approach focusing on activities > theory
✓ Same toolbox
Essential preliminaries

- Identify aims and priorities
- Evaluate current teaching
- Be aware of difficulties
- Structure course contents
- Focus on activity & interactivit
Essential evaluations

To collect data and statistics in order to:

- Detect gaps and weaknesses
- Improve course quality
- Increase the general level of competency
- Report to faculties
Chances of success

- Critical reading: 4h
- EBM: 12h
- Master's 1: 15h
- Master's 2: 15h
- Ph.D.: 5h
- EndNote
- Scientific writing
- PubMed: 25 - 35h
- Bac 1: 10h
- Bac 2: 15h
- Informatics
- Medicine
- Veterinary Medicine
- Informatics

EAHIL Workshop
Pathways to New Roles
Musts for librarians

- Link specific activities with specific aims / skills
- Become interested in Education Sciences
- Organize lectures and workshops
- Improve oral and Web-based communication
- Use new software
- Go beyond the library (look, observe, integrate)
What's to gain ?

✓ Peer recognition

✓ Partnership in higher education
Christine Brouwir, Nancy Durieux,
Nicolas Fairon, Francoise Pasleau, Severine Spronck,
Sandrine Vandenput and their colleagues from the
SMART, LabSET and ULB CTE research centers

Thank you for your attention