



KU Leuven
Teaching and Learning Services

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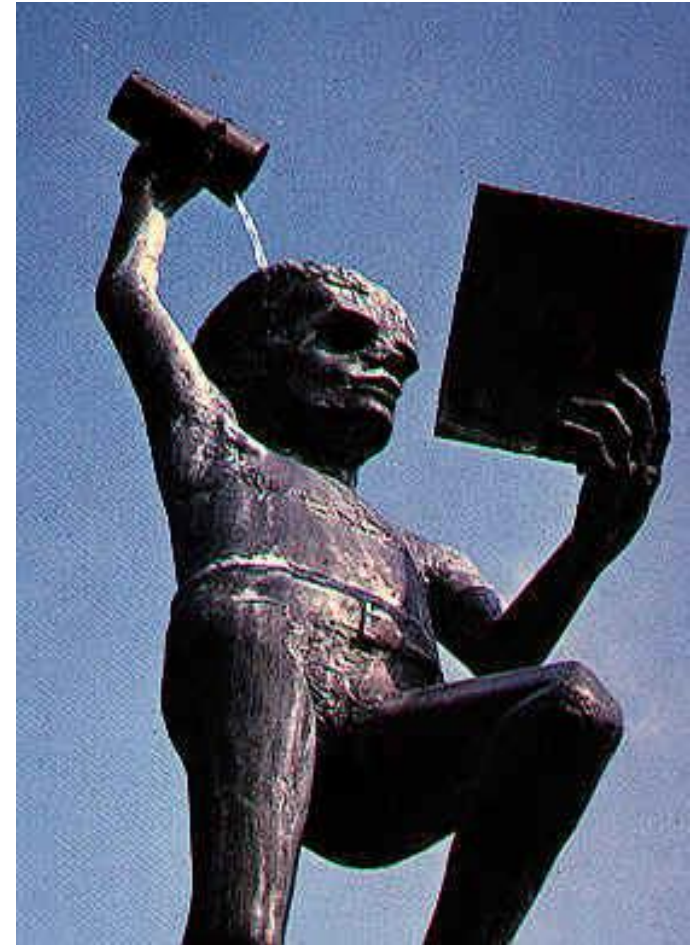


... Teaching Teachers Thoughts

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A vision on teaching and learning

- The University community as a whole is involved in education
- A stimulating educational culture ensures the quality of education
- Academically trained students will play a responsible role in society
- The programs on offer are defined by research and social relevance
- Students, lecturers and teaching support staff are mutual partners in education
- The University community fosters openness and solidarity



Our tomorrow's disciplinary future selfies



Diplomas of pedagogical competence are legally required for teaching in Flanders

- Initial teacher training (ITT) and Teacher Training Diplomas (TTDs) are specific for each targeted education level:
 - pre-school (kindergarten; 3-5 yr. old)
 - primary school (5-12 yr.)
 - secondary school (12-18 yr.; specific rules apply for technical and/or vocational education)
 - non-academic Higher Education (i. e. 'professional' bachelor training in 'University Colleges')
- ... **NO** specific TTD is requested for University teaching !!!

Who is providing Initial Teacher Training?

- **University colleges provide initial teacher training at bachelor level**, aiming at candidate teachers for pre-school, primary school and secondary school teaching (1st grade, i.e. the two initial classes of the secondary school)
- **Universities provide teacher training at (advanced) master level** for candidates for secondary school teaching and for HE-teaching at non-university level

Flanders hasn't a centralized system for teacher training

(e.g. UK <https://www.gov.uk/government/collections/initial-teacher-training>);

but is using an external **Quality Management System** guarded by **NVAO**, in common with the Netherlands

Initial teacher training: content and study duration

- **Teacher training in HE at non-university level: leading to a bachelor diploma in teaching**
 - Study duration: 3*60 credits in a 3 years' model program
 - Study content:
 - Psychology, pedagogy, didactics, teaching methodology, communication and agogic skills
 - Basic scientific subjects in accordance with the chosen study program and intended teaching level
 - Languages: Dutch and French
 - Practical training: teaching placement

Initial teacher training: content and study duration

- **Specific Teacher Training at university level (SLO)**
 - Certification: **Diploma of Pedagogical Competence**
 - Under review and will become an Educational Master degree
 - Leading to: a career of professional teacher in secondary school
 - Study duration: 1 years of 60 credits (30 European Credits (EC) Theory + 30 EC Teaching practice)
 - Admission requirement: initial Master degree
 - Study content:
 - General pedagogy and didactics – Theory: 8 EC
 - Specific pedagogy and didactics – Theory: 16 EC
 - Optional courses – Theory: 15 EC
 - Teaching practice (placement) – Practical: 21 EC
 - **Note:** *the diploma of Specific Teacher Training is no requirement for a university teaching position, but is highly recommended*

Teaching at University level in Flanders ¹

Admission to an academic staff position – Admission requirements and procedure

- Specific academic positions:
assistant, dr. assistant, docent, sr. docent, professor, full professor
- Assistant:
 - research position; no theoretical course assignment, but practical sessions, seminars, workshops, ...
 - holding a valid master degree
- Docent and professor:
 - (renewed) formal job application,
 - PhD, proof of scientific merits and practical teaching test,
 - fluency in Dutch language (within 3 yrs after appointment)
 - SLO-diploma and/or prior teaching experience

Teaching at University level in Flanders ²

Building professional competences for academic teaching

You are appointed as a teaching or teaching / faculty support staff member at KU Leuven:

- You receive a central login number and **get access to the electronic university management system: Toledo (T&L) and KU Loket (admin)**
- You're invited to a three days' **staff introductory session:** providing information on the academic and administrative system, working and quality management procedures
- You can **use all functions of the Toledo learning and teaching platform**
- You can participate in **training and professionalization** activities offered to your function level by the T&L Center

- Initial teacher training (if any!) does not provide starting academic staff with the required digital competences (DCs)
- Starting academic staff members' DCs are widely different according to initial training, previous experience and area of professional activities
- KU Leuven provides:
 - Professionalization update and training sessions
 - Seminars and symposia at faculty level
 - Individual coaching trajectories

Developing Digital Competence

1

Building professional competences for academic teaching

KU Leuven: professional training for *acad. managers* (1/5)

<https://www.kuleuven.be/onderwijs/professionalisering/verantwoordelijke> - available in Dutch language only

- Supporting academic writing by students
- Assessment of learning outcomes
- Basics of course design
- Blended learning
- Coaching skills in academic education
- The students' study career: shared responsibility?
- Integration of research in your course and teaching
- Integration of research in all academic curricula
- Learning outcomes and attitude building in acad. educ.
- Introducing LIMEL: institutional support facility for incorporation of new technologies in acad. education

Developing Digital Competence

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Building professional competences for academic teaching

KU Leuven: professional training for *docents* (2/5)

<https://www.kuleuven.be/onderwijs/professionalisering/docent> - available in Dutch language only

- Teaching at KU Leuven (offered in Dutch and English)
- Integrating 'reflection' in your course
- Supporting academic writing by students
- Activate your students while teaching
- Assessment of learning outcomes
- Basics of course design
- Blended learning
- Coaching skills in academic education
- The students' study career: shared responsibility?
- Teaching heterogeneous groups of students
- .../...

Developing Digital Competence

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Building professional competences for academic teaching KU Leuven: professional training for *docents* (2/5, contd.)

<https://www.kuleuven.be/onderwijs/professionalisering/docent> - available in Dutch language only

-/..
- Supporting students' teamwork with Toledo
- Integration of research in your course and teaching
- Integration of research in all academic curricula
- Using 'knowledge video-clips': what, how and why?
- LIMEL Studio 2: making your 'knowledge video-clips'
- Screencast: from A to Z
- Talking head: from A to Z
- Optimizing learning goals for reaching learning outcomes
-/..

Developing Digital Competence

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Building professional competences for academic teaching KU Leuven: professional training for *docents* (2/5, contd.)

<https://www.kuleuven.be/onderwijs/professionalisering/docent> - available in Dutch language only

- .../...
- Teaching portfolio: introduction sessions
- Teaching portfolio: feedback sessions
- Teaching portfolio: writing sessions
- Working with students' portfolios in Toledo

Developing Digital Competence

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Professionalization at KU Leuven

<https://www.kuleuven.be/onderwijs/professionalisering>

Building professional competences for academic teaching

Prof. training for *staff supporting assistants* (4/5)

<https://www.kuleuven.be/onderwijs/professionalisering/ondersteuner> - available in Dutch language

This offer is for teaching staff and faculty educational support staff, who support teaching staff and policy makers within a faculty.

Building professional competences for academic teaching

Prof. training for *faculty administration staff* (5/5)

<https://www.kuleuven.be/onderwijs/professionalisering/facultaire-medewerker> - available in Dutch

This offer is for administrative education staff in faculties, and all others who work with administrative education applications, e.g. study career counselors.

KU Leuven most important system characteristics using / requiring digital competence:

- **Toledo learning and teaching management platform:**
 - a source of information
 - a communication channel
 - an evaluation tool
- **Modern didactic and methodic tools and procedures**
 - e-methods and tools in regular teaching
 - open education and open education resources
 - e-methods in assessment, evaluation and examination
 - e-methods in academic study career management

KU Leuven most important system characteristics using / requiring digital competence:

- Efficient modern administrative and career management:
KU Loket and Lirias
 - KU Loket: electronic administrative management system
 - Lirias: scientific output management system; publication management system

Innovative T&L methods

The Toledo learning platform

➤ Toledo in a nutshell

Since 2008 all 13 partners in the KU Leuven association are using Toledo.

➤ Toledo in facts and figures:

- actively used by approx. 140,000 users in 6 institutes.
- used in over 45,000 active courses
- more than 8,000 communities are operated for cross-curricular or program-specific activities
- every day, an average of 80,000 different users log on

Innovative T&L methods

The Toledo learning platform: perspectives

- **Toledo as a source of information**

provides students with an access to a a wide range of online course materials: course texts, slides, practice materials, links to useful websites, graphical and audiovisual materials, ...

- **Toledo as a communication channel**

offers many communication channels between students and/or teaching staff members: e.g. electronic valves, email, discussion fora, chat boxes, calendars and workflows.

- **Toledo as an evaluation tool**

In Toledo a student can direct actively manage his/her personal learning process and tune it up to that of colleague students via: electronic tests, online assignments, discussion fora, group tools, e-portfolio (student portfolios), and group-, peer- and self-assessment tools, ...

1 The Toledo learning and teaching platform

- Keeping your teaching digital agenda
- Administrative course management system: ECTS, time scheduling, calendar, ...
- Email-system
- Maintaining your e-portfolio of courses and course materials
- Offering courses and course materials online
- e-Communication with students: ad valvas communication, messaging, email, chats
- e-Management of examination and assessment: online examination, administration of the exam results, ...
- Student mobility

2 Modern didactic and methodic tools and procedures activating students

○ Blended learning: mix of contact and distance learning

- self-directed learning
- multi-campus teaching (blended l_Labobaden – Multicampusonderwijs.pdf)
- flipped class applications:

https://associatie.kuleuven.be/p/multicampusonderwijs/types/blended_learning

<https://www.kuleuven-kulak.be/BlendedLearning> Centrum Blended Learning_KULAK.pdf

<https://associatie.kuleuven.be/onderwijs/doceren/blended-learning> Blended learning – Vorming voor docenten.pdf

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○ Audio and video materials for blended learning

- ‘Knowledge-clips’: short video-clips
- Screencasts: screen image plus voice over
- Talking heads: video of talking teacher
- LIMEL produces audio-visual course materials and organizes an equipment lending service for the production of audio-visual course materials for KU Leuven staff members – LIMEL Studio 2 offers accommodation and technical assistance to allow staff members making their own audio-visual productions

Innovative T&L methods



KU Leuven Institute for Media and Learning

LIMEL Mission statement

LIMEL functions as an educative video-producer within KU Leuven and is an expert in the field of audio and video productions for education.

LIMEL produces, supports projects, provides service, professionalizes, informs and advises the university community in the use of video and audio productions in education.

2 Modern didactic and methodic tools and procedures activating students

○ Audio and video materials for blended learning

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○ Pre-lab simulation for instrumental analysis in analytical chemistry

- Using simulation software preparing instrumental analysis in the chemistry lab
<https://dl.acm.org/citation.cfm?id=2668869>

○ Lab-baths for non-regular students

- Multi-campus teaching, distance learning, blended learning
- Intensive pre-lab instruction for non-regular students
(blended I_Labobaden – Multicampusonderwijs.pdf)

2 Modern didactic and methodic tools and procedures activating students

- **Innovation lab (Fac. Eng. Sc.)**

- STEM-projects for sec. school students in university labs
<https://eng.kuleuven.be/innovationlab>

- **FabLab (Fac. Eng. Sc.)**

- Students realize their own project in a full digitally equipped engineering lab
- e-Learning, problem-based learning, research directed learning, hands on
<https://iiv.kuleuven.be/labobaden/fablab> Fablab–Fac Indust Ing_wetensch.pdf

- **Open Education – Open Educational Resources (OER)**

- <https://www.kuleuven.be/english/education/staff/open-education>
<http://www.oiconsortium.org> and <http://www.opencourseware.eu>
<http://www.scielo.br/pdf/ensaio/v26n98/1809-4465-ensaio-S0104-40362018002601320.pdf>

- **MOOC KU Leuven**

- <https://www.kuleuven.be/mooc> MOOC KU Leuven.pdf

- **OPEN Virtual Mobility – Erasmus+ project 2017-20 participation**

- <https://www.kuleuven.be/english/international/impact/openvm>

3 Efficient modern administrative and career management: KU Locket and Lirias

○ **KU Locket**

- Complete management of the administrative position of staff
- Complete management of financial relations with staff

○ **Lirias**

<https://www.kuleuven.be/english/research/scholcomm/lirias/a-new-lirias-lirias-2-0>

- A complete all-including research management system guiding KU Leuven researchers from funding systems to management of publications and citations
- Knowledge management system

Questions and suggestions ...

